

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101619\
 Data File : VN058799.D
 Acq On : 16 Oct 2019 14:20
 Operator : JC/SP
 Sample : VN1016WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1016WBSD01

Quant Time: Oct 17 01:32:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 12 00:00:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	377508	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	614693	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	564581	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	267267	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	266896	50.50	ug/l	0.00
Spiked Amount			Recovery	=	101.00%	
35) Dibromofluoromethane	7.57	113	193457	50.95	ug/l	0.00
Spiked Amount			Recovery	=	101.90%	
50) Toluene-d8	10.09	98	739552	48.71	ug/l	0.00
Spiked Amount			Recovery	=	97.42%	
62) 4-Bromofluorobenzene	12.41	95	272002	47.33	ug/l	0.00
Spiked Amount			Recovery	=	94.66%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.83	85	99338	21.128	ug/l	99
3) Chloromethane	2.04	50	112833	20.182	ug/l	100
4) Vinyl Chloride	2.17	62	114769	20.611	ug/l	99
5) Bromomethane	2.55	94	71700	21.167	ug/l	99
6) Chloroethane	2.68	64	73184	21.308	ug/l	99
7) Trichlorofluoromethane	3.00	101	143589	21.547	ug/l	100
8) Diethyl Ether	3.39	74	51257	20.817	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.74	101	77823	20.481	ug/l	99
10) Methyl Iodide	3.93	142	105106	20.270	ug/l	99
11) Tert butyl alcohol	4.76	59	90164	105.341	ug/l	98
12) 1,1-Dichloroethene	3.72	96	76520	21.106	ug/l	98
13) Acrolein	3.58	56	47814	69.459	ug/l	96
14) Allyl chloride	4.30	41	152295	20.816	ug/l	99
15) Acrylonitrile	4.96	53	235021	108.882	ug/l	99
16) Acetone	3.79	43	227182	103.832	ug/l	98
17) Carbon Disulfide	4.03	76	230019	19.848	ug/l	99
18) Methyl Acetate	4.30	43	125181	22.555	ug/l	99
19) Methyl tert-butyl Ether	5.02	73	275369	21.271	ug/l	97
20) Methylene Chloride	4.53	84	92690	20.270	ug/l	99
21) trans-1,2-Dichloroethene	5.02	96	83248	20.528	ug/l	99
22) Diisopropyl ether	5.93	45	306242	21.528	ug/l	97
23) Vinyl Acetate	5.87	43	1282101	111.696	ug/l	99
24) 1,1-Dichloroethane	5.83	63	173481	21.413	ug/l	99
25) 2-Butanone	6.82	43	331445	104.805	ug/l	100
26) 2,2-Dichloropropane	6.80	77	142511	19.270	ug/l	99
27) cis-1,2-Dichloroethene	6.81	96	98001	20.724	ug/l	97
28) Bromochloromethane	7.18	49	59217	21.010	ug/l	99
29) Tetrahydrofuran	7.19	42	218181	106.758	ug/l	100
30) Chloroform	7.35	83	171206	21.033	ug/l	99
31) Cyclohexane	7.64	56	153940	19.858	ug/l	97
32) 1,1,1-Trichloroethane	7.55	97	149472	21.532	ug/l	99
36) 1,1-Dichloropropene	7.78	75	126935	20.424	ug/l	99
37) Ethyl Acetate	6.91	43	142026	22.596	ug/l	99
38) Carbon Tetrachloride	7.76	117	128260	21.175	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	140716	19.512	ug/l	96
40) Benzene	8.02	78	371919	20.837	ug/l	99
41) Methacrylonitrile	7.19	41	201113	68.354	ug/l #	25
42) 1,2-Dichloroethane	8.11	62	145831	21.266	ug/l	99
43) Isopropyl Acetate	8.15	43	221781	20.713	ug/l	99
44) Trichloroethene	8.82	130	91107	20.554	ug/l	97
45) 1,2-Dichloropropane	9.11	63	100575	21.048	ug/l	99
46) Dibromomethane	9.20	93	64039	21.139	ug/l	99
47) Bromodichloromethane	9.39	83	135139	21.906	ug/l	100
48) Methyl methacrylate	9.19	41	101973	21.010	ug/l	99
49) 1,4-Dioxane	9.19	88	32412	431.655	ug/l	95
51) 4-Methyl-2-Pentanone	9.98	43	690100	114.759	ug/l	98
52) Toluene	10.15	92	225987	20.700	ug/l	98
53) t-1,3-Dichloropropene	10.38	75	146923	20.765	ug/l	98
54) cis-1,3-Dichloropropene	9.83	75	154245	20.532	ug/l	95
55) 1,1,2-Trichloroethane	10.56	97	91208	20.412	ug/l	99
56) Ethyl methacrylate	10.43	69	137012	20.989	ug/l	100
57) 1,3-Dichloropropane	10.71	76	159385	20.933	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	323949	102.975	ug/l	99
59) 2-Hexanone	10.75	43	506815	109.058	ug/l	98
60) Dibromochloromethane	10.90	129	95577	20.736	ug/l	99
61) 1,2-Dibromoethane	11.00	107	93025	20.781	ug/l	100
64) Tetrachloroethene	10.63	164	81027	20.507	ug/l	95
65) Chlorobenzene	11.43	112	239273	20.869	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	89560	21.124	ug/l	99
67) Ethyl Benzene	11.51	91	431764	21.126	ug/l	100
68) m/p-Xylenes	11.62	106	317243	41.362	ug/l	98
69) o-Xylene	11.95	106	151389	20.401	ug/l	100
70) Styrene	11.97	104	246024	20.228	ug/l	98
71) Bromoform	12.13	173	66278	21.328	ug/l #	97
73) Isopropylbenzene	12.25	105	413746	21.375	ug/l	100
74) N-amyl acetate	12.07	43	183515	21.109	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.51	83	138908	21.784	ug/l	99
76) 1,2,3-Trichloropropane	12.56	75	184649	31.493	ug/l #	100
77) Bromobenzene	12.53	156	99328	21.097	ug/l	99
78) n-propylbenzene	12.59	91	491642	21.798	ug/l	100
79) 2-Chlorotoluene	12.68	91	290354	20.741	ug/l	99
80) 1,3,5-Trimethylbenzene	12.74	105	350627	21.218	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	44997	20.558	ug/l	96
82) 4-Chlorotoluene	12.78	91	300800	20.939	ug/l	99
83) tert-Butylbenzene	13.00	119	298356	21.075	ug/l	98
84) 1,2,4-Trimethylbenzene	13.05	105	354545	21.612	ug/l	99
85) sec-Butylbenzene	13.18	105	403040	21.606	ug/l	99
86) p-Isopropyltoluene	13.29	119	355837	20.989	ug/l	98
87) 1,3-Dichlorobenzene	13.29	146	177976	20.498	ug/l	100
88) 1,4-Dichlorobenzene	13.37	146	176797	20.027	ug/l	98
89) n-Butylbenzene	13.62	91	319980	20.412	ug/l	99
90) Hexachloroethane	13.88	117	65814	21.695	ug/l	98
91) 1,2-Dichlorobenzene	13.66	146	177309	20.953	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.28	75	29346	19.700	ug/l	96

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Quant Title : SW846 8260
QLast Update : Sat Oct 12 00:00:30 2019
Response via : Initial Calibration

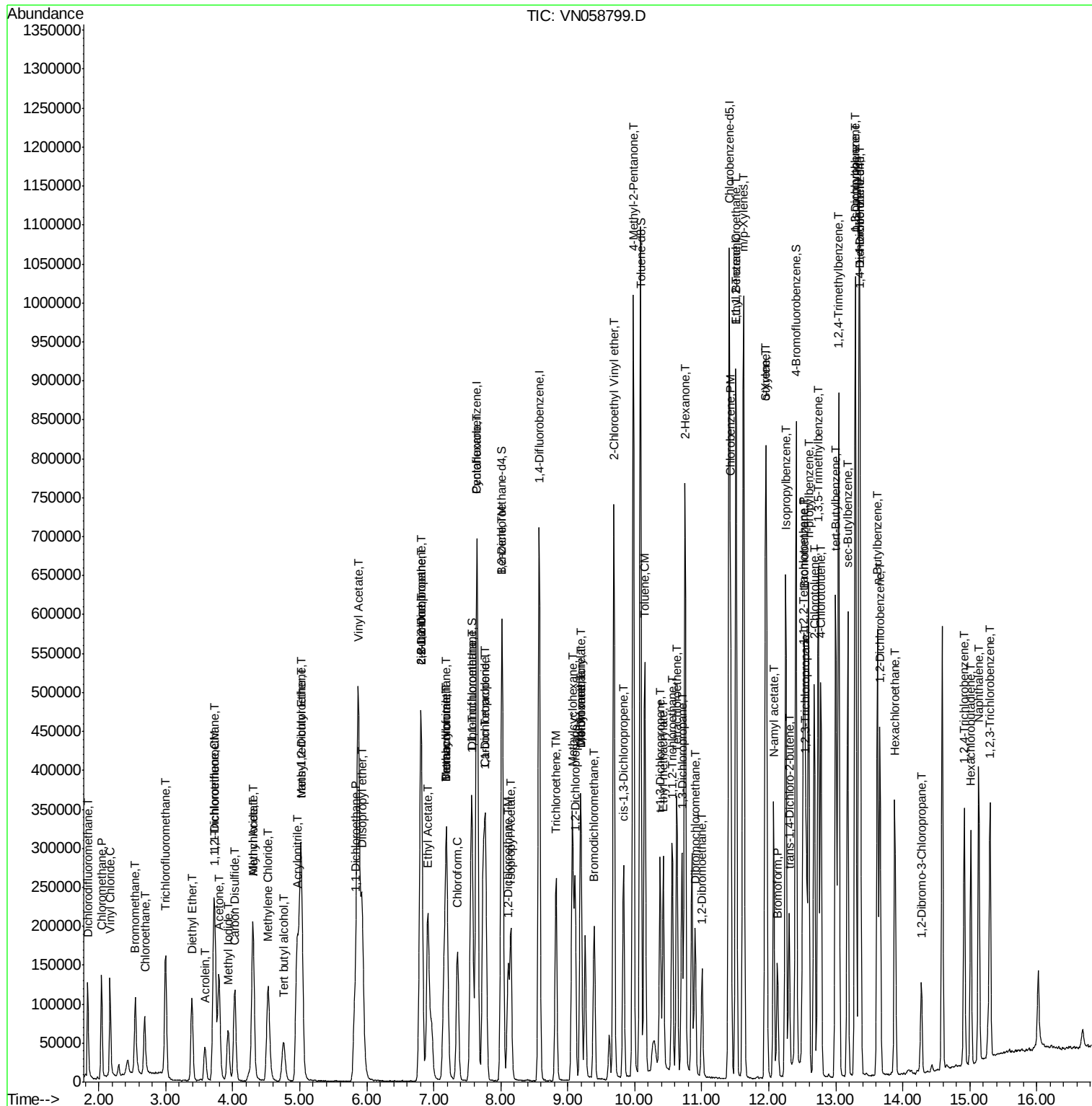
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.92	180	99772	19.328	ug/l	98
94) Hexachlorobutadiene	15.01	225	53460	19.666	ug/l	99
95) Naphthalene	15.13	128	292264	19.700	ug/l	99
96) 1,2,3-Trichlorobenzene	15.30	180	99375	19.718	ug/l	99

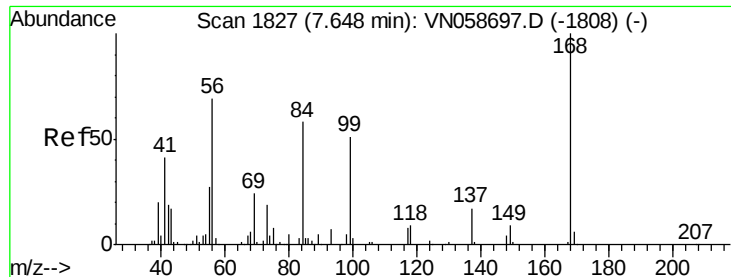
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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN058799.D

Acq: 16 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

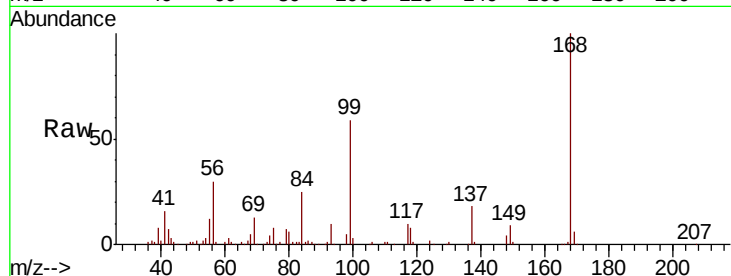
VN1016WBSD01

Tot Ion:168 Resp: 377508

Ion Ratio Lower Upper

168 100

99 59.3 47.5 71.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

150000

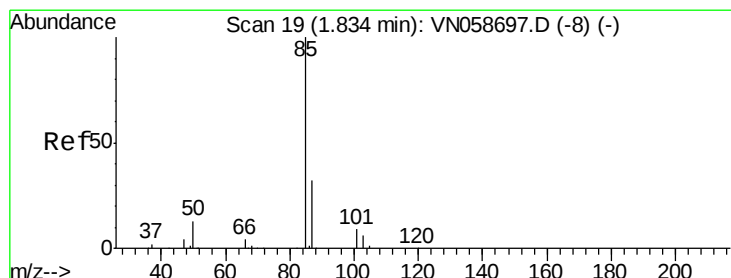
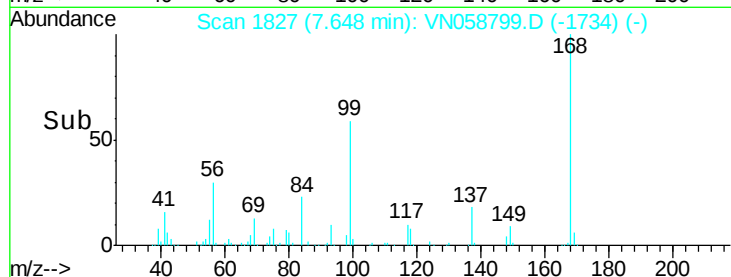
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50000

0

7.60 7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 21.128 ug/l

RT: 1.83 min Scan# 19

Delta R.T. 0.00 min

Lab File: VN058799.D

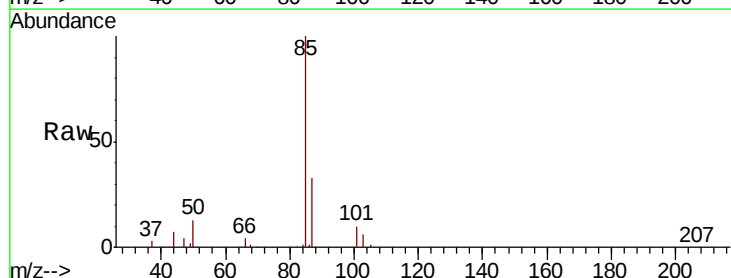
Acq: 16 Oct 2019 14:20

Tgt Ion: 85 Resp: 99338

Ion Ratio Lower Upper

85 100

87 33.1 16.2 48.6



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

80000

60000

40000

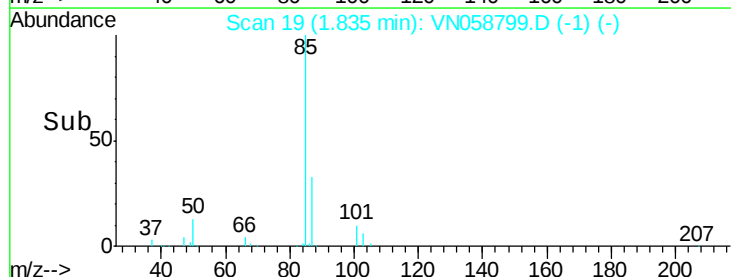
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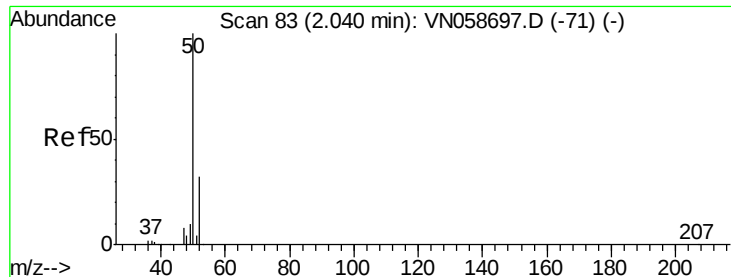
0

1.83

1.75 1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 20.182 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN058799.D

Acq: 16 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

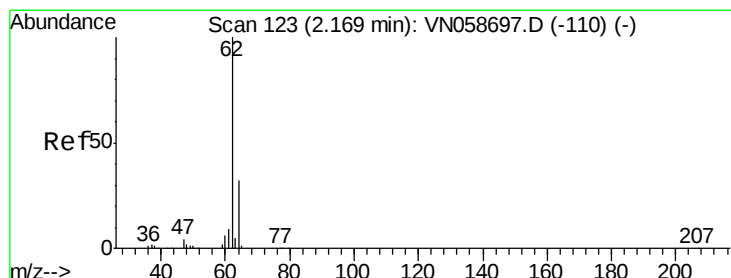
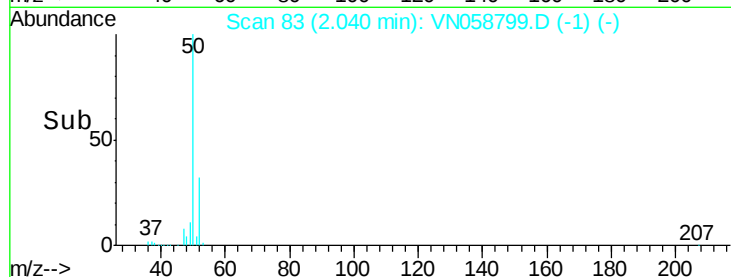
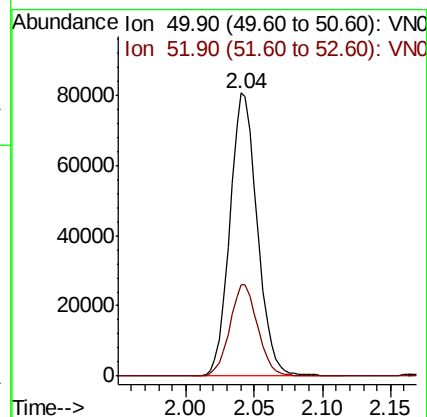
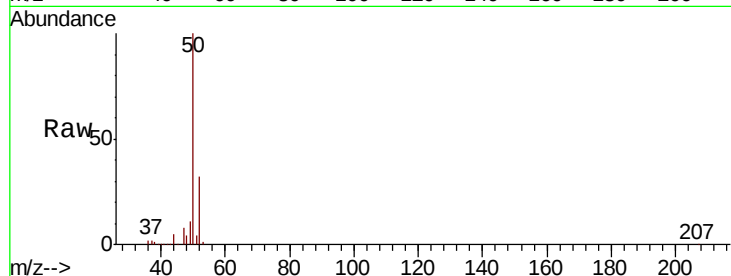
VN1016WBSD01

Tot Ion: 50 Resp: 112833

Ion Ratio Lower Upper

50 100

52 32.2 25.8 38.6



#4

Vinyl Chloride

Concen: 20.611 ug/l

RT: 2.17 min Scan# 123

Delta R.T. 0.00 min

Lab File: VN058799.D

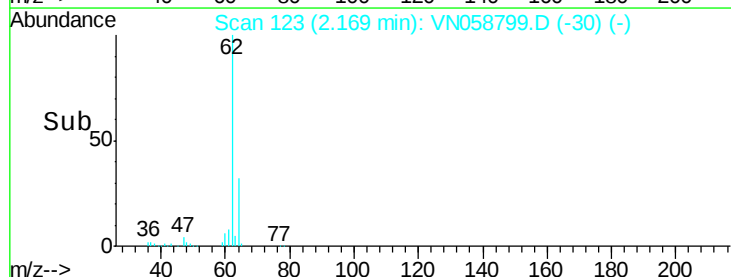
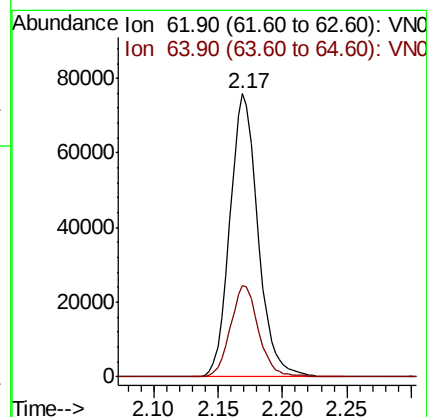
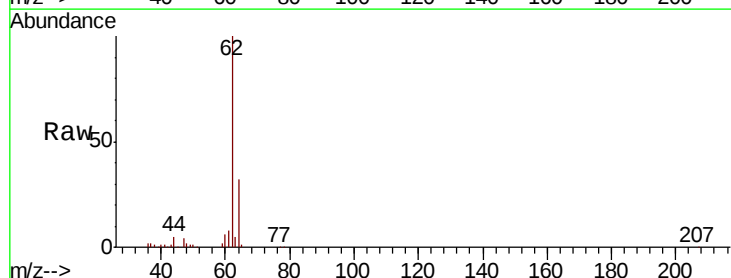
Acq: 16 Oct 2019 14:20

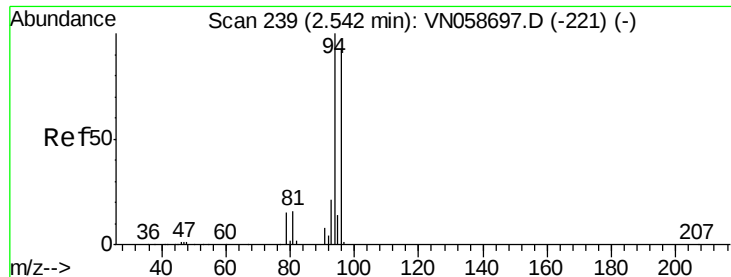
Tgt Ion: 62 Resp: 114769

Ion Ratio Lower Upper

62 100

64 32.3 25.3 37.9

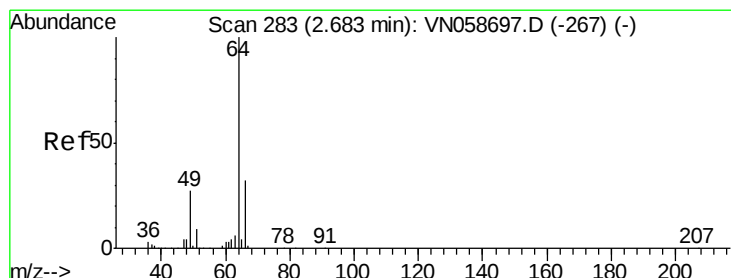
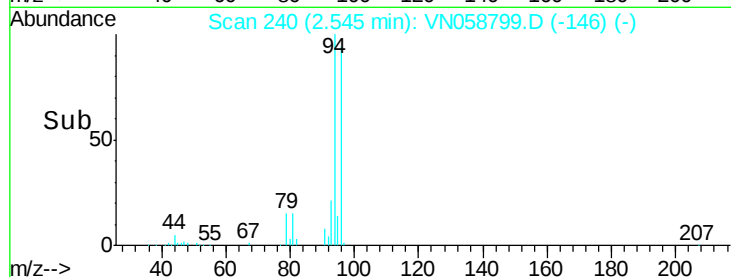
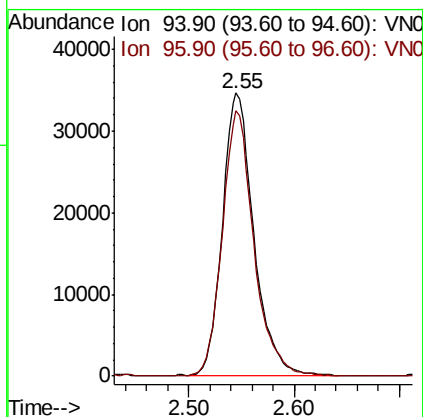
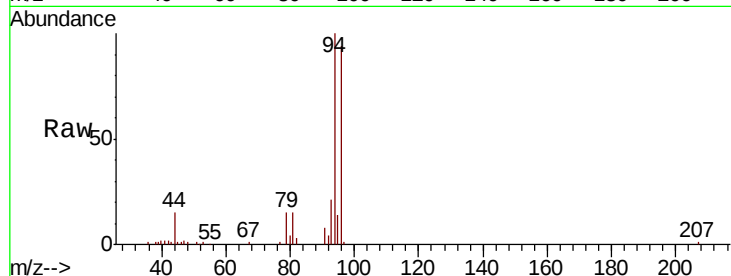




#5
Bromomethane
Concen: 21.167 ug/l
RT: 2.55 min Scan# 240
Delta R.T. 0.00 min
Lab File: VN058799.D
Acq: 16 Oct 2019 14:20

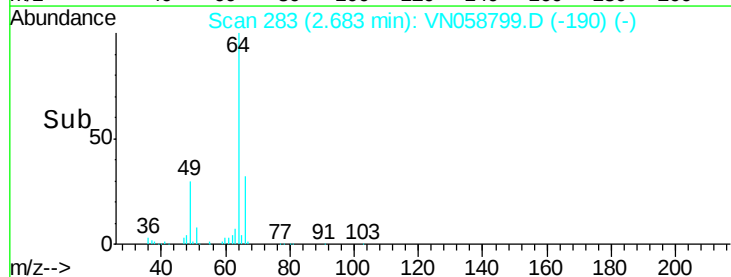
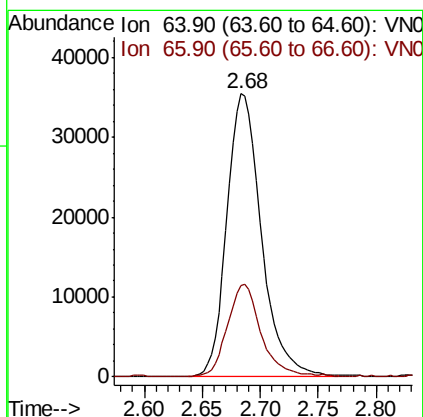
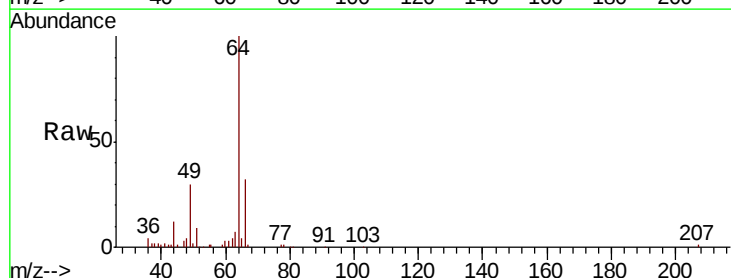
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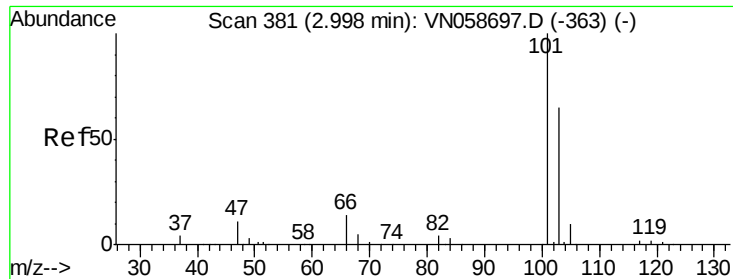
Tot Ion: 94 Resp: 71700
Ion Ratio Lower Upper
94 100
96 93.7 74.5 111.7



#6
Chloroethane
Concen: 21.308 ug/l
RT: 2.68 min Scan# 283
Delta R.T. 0.00 min
Lab File: VN058799.D
Acq: 16 Oct 2019 14:20

Tgt Ion: 64 Resp: 73184
Ion Ratio Lower Upper
64 100
66 32.4 25.4 38.2



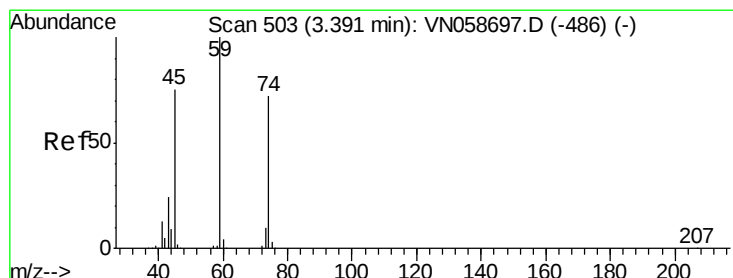
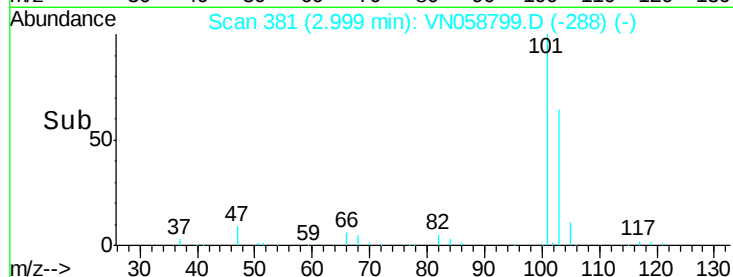
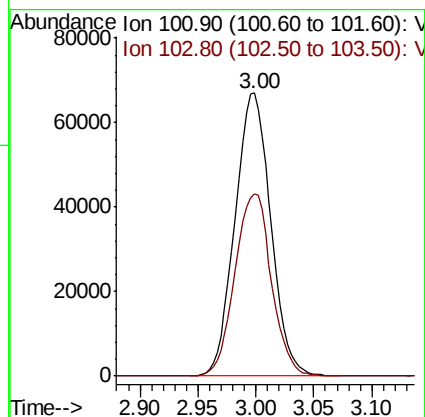
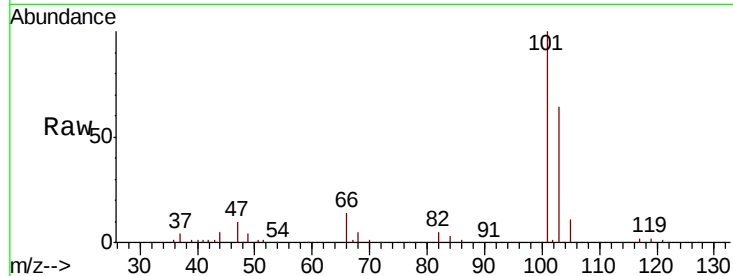


#7

Trichlorofluoromethane
 Concen: 21.547 ug/l
 RT: 3.00 min Scan# 381
 Delta R.T. 0.00 min
 Lab File: VN058799.D
 Acq: 16 Oct 2019 14:20

Instrument :
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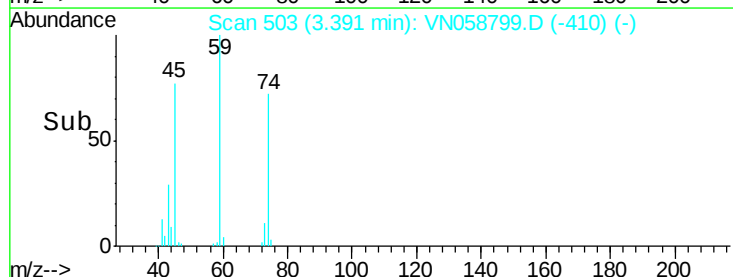
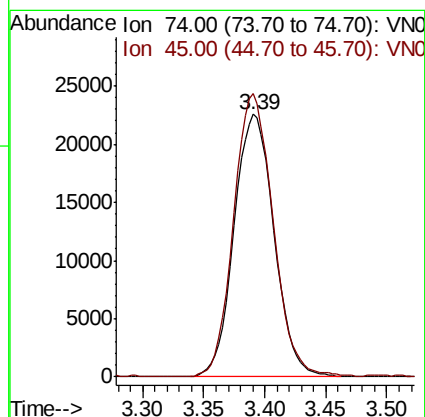
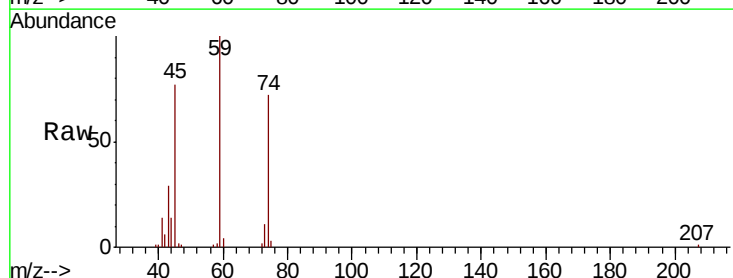
Tot Ion:101 Resp: 143589
 Ion Ratio Lower Upper
 101 100
 103 64.3 51.8 77.6

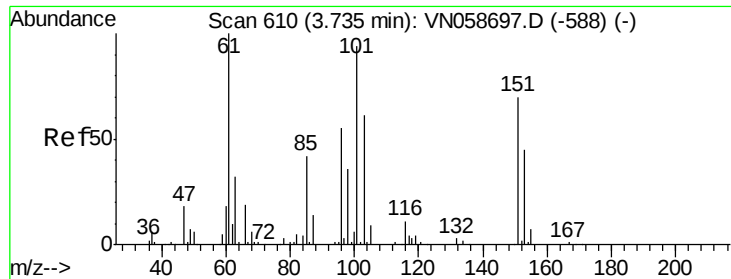


#8

Diethyl Ether
 Concen: 20.817 ug/l
 RT: 3.39 min Scan# 503
 Delta R.T. 0.00 min
 Lab File: VN058799.D
 Acq: 16 Oct 2019 14:20

Tgt Ion: 74 Resp: 51257
 Ion Ratio Lower Upper
 74 100
 45 107.1 51.3 154.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.481 ug/l

RT: 3.74 min Scan# 612

Delta R.T. 0.01 min

Lab File: VN058799.D

Acq: 16 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

VN1016WBSD01

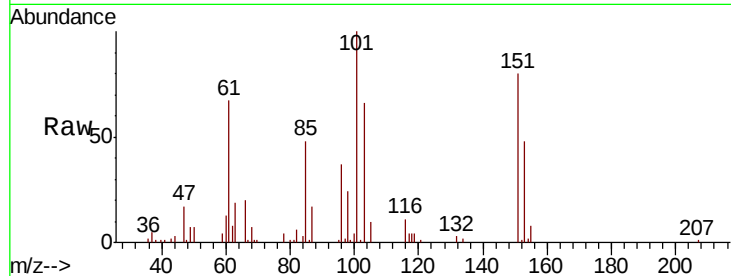
Tot Ion:101 Resp: 77823

Ion Ratio Lower Upper

101 100

85 48.0 37.0 55.6

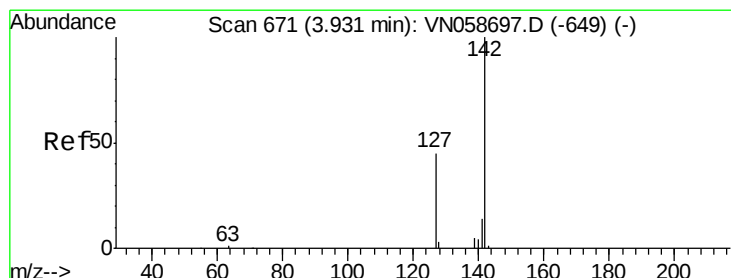
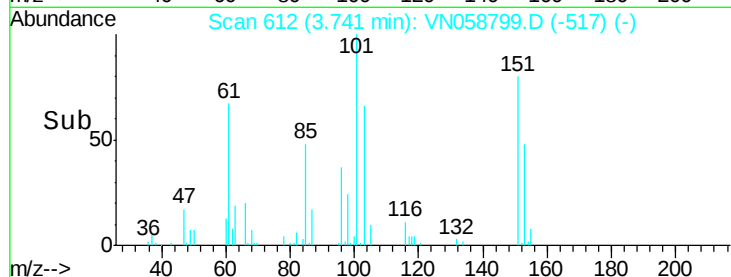
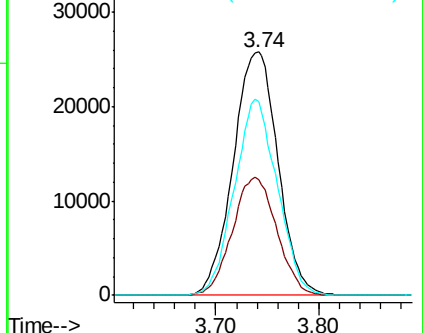
151 77.4 61.8 92.6



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 20.270 ug/l

RT: 3.93 min Scan# 671

Delta R.T. 0.00 min

Lab File: VN058799.D

Acq: 16 Oct 2019 14:20

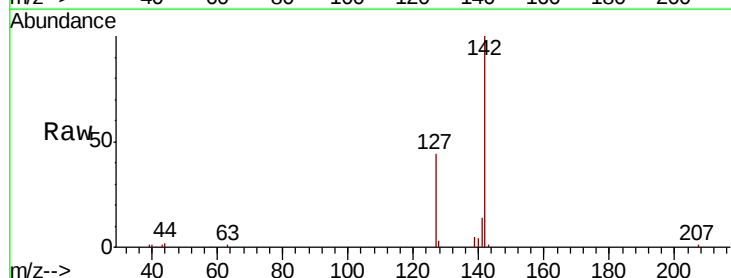
Tgt Ion:142 Resp: 105106

Ion Ratio Lower Upper

142 100

127 44.7 36.4 54.6

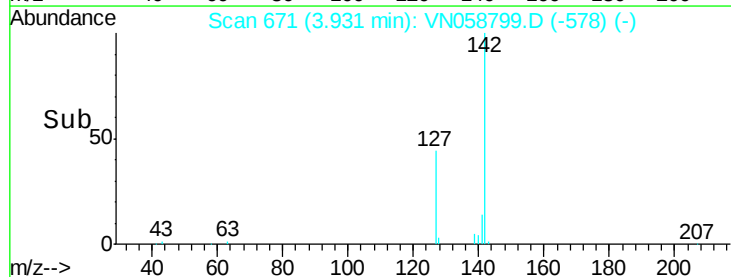
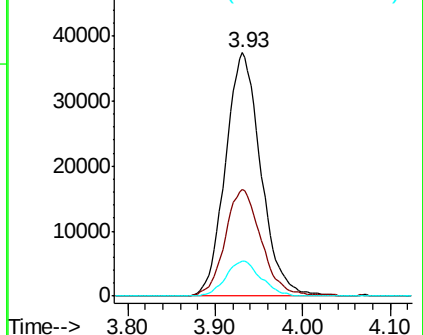
141 14.2 11.1 16.7

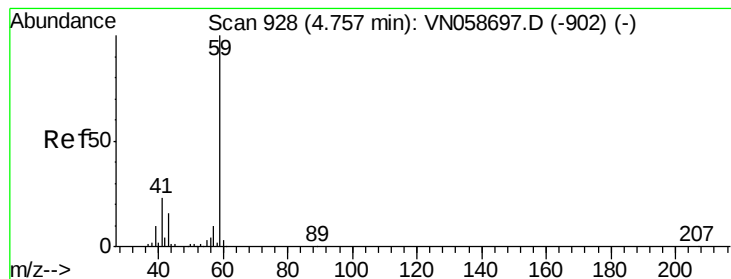


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



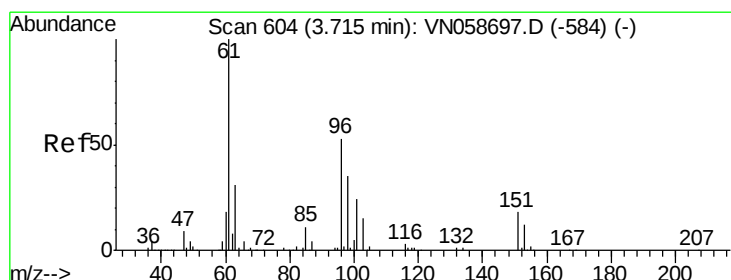
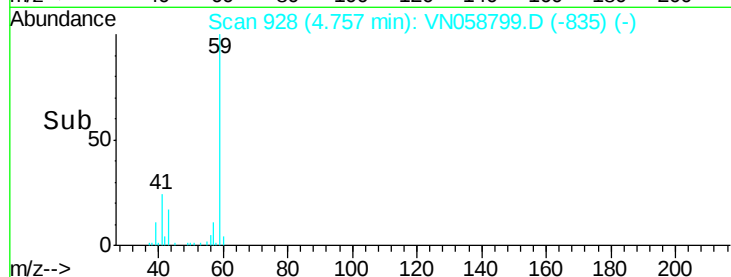
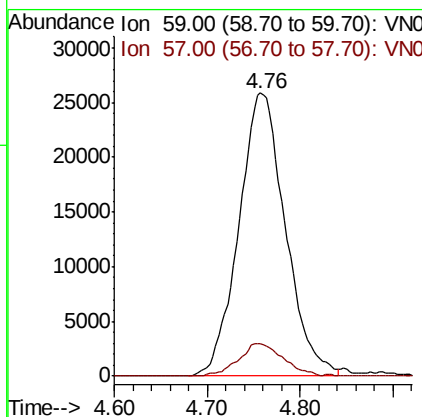
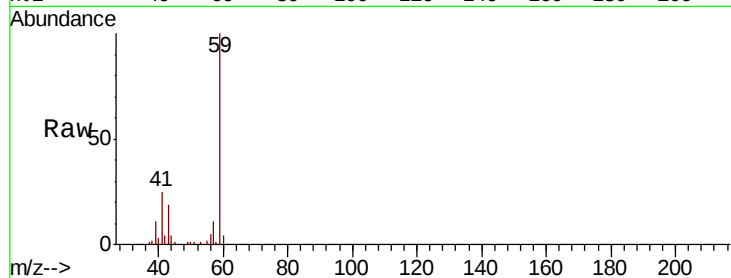


#11

Tert butyl alcohol
 Concen: 105.341 ug/l
 RT: 4.76 min Scan# 928
 Delta R.T. 0.00 min
 Lab File: VN058799.D
 Acq: 16 Oct 2019 14:20

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1016WBSD01

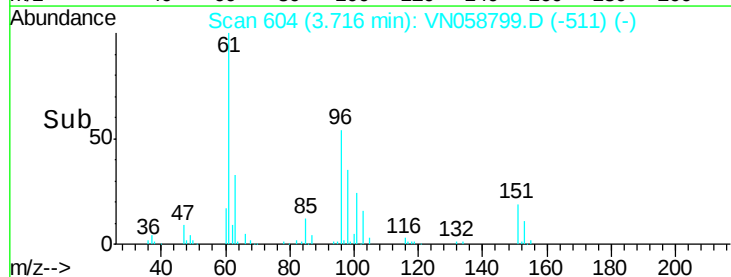
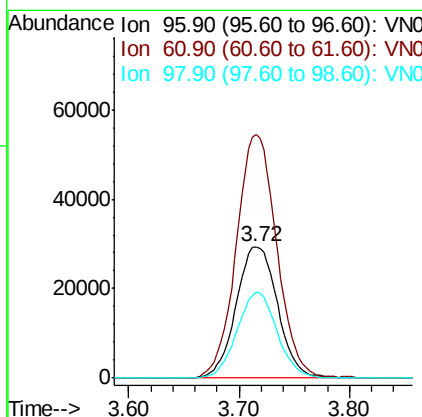
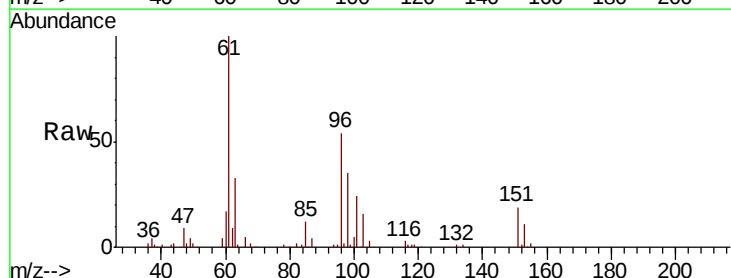
Tot Ion: 59 Resp: 90164
 Ion Ratio Lower Upper
 59 100
 57 11.1 8.4 12.6

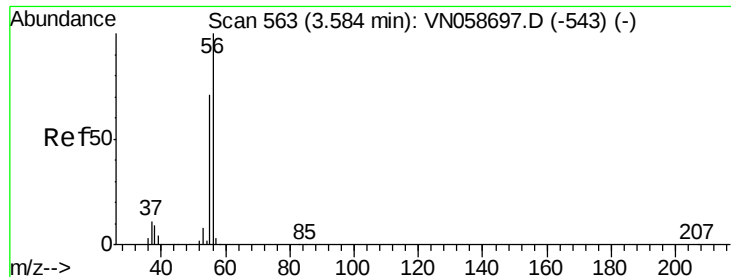


#12

1,1-Dichloroethene
 Concen: 21.106 ug/l
 RT: 3.72 min Scan# 604
 Delta R.T. 0.00 min
 Lab File: VN058799.D
 Acq: 16 Oct 2019 14:20

Tgt Ion: 96 Resp: 76520
 Ion Ratio Lower Upper
 96 100
 61 185.5 151.3 226.9
 98 65.3 52.6 78.8





#13

Acrolein

Concen: 69.459 ug/l

RT: 3.58 min Scan# 563

Delta R.T. 0.00 min

Lab File: VN058799.D

Acq: 16 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

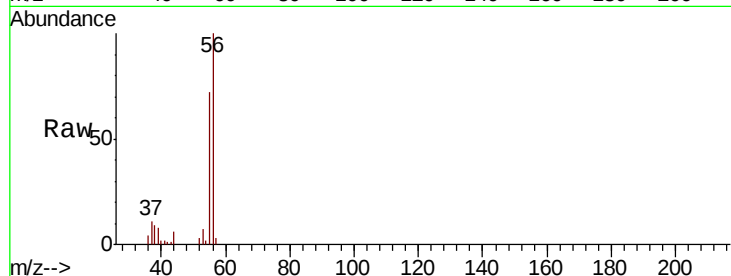
VN1016WBSD01

Tot Ion: 56 Resp: 47814

Ion Ratio Lower Upper

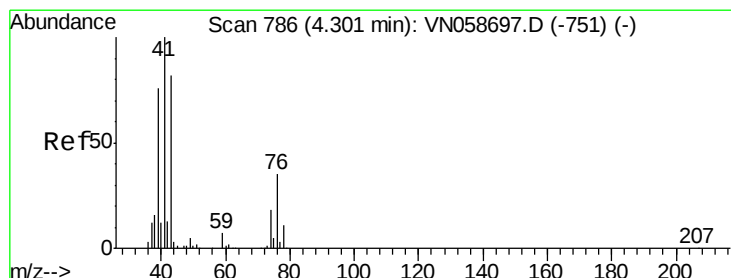
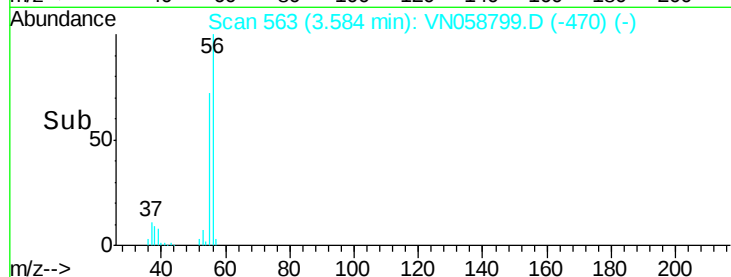
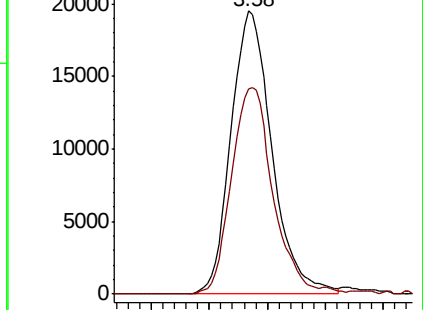
56 100

55 74.1 56.7 85.1



Abundance Ion 56.00 (55.70 to 56.70): VN058799.D (-470) (-)

Ion 55.00 (54.70 to 55.70): VN058799.D (-470) (-)



#14

Allyl chloride

Concen: 20.816 ug/l

RT: 4.30 min Scan# 786

Delta R.T. 0.00 min

Lab File: VN058799.D

Acq: 16 Oct 2019 14:20

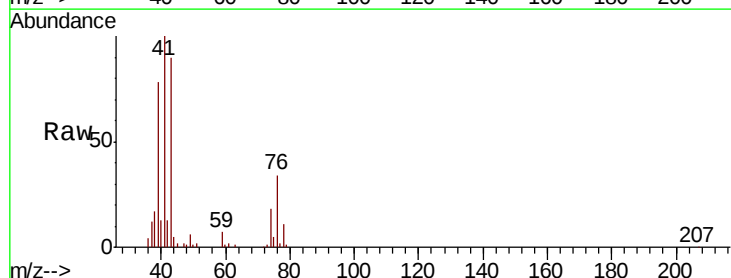
Tgt Ion: 41 Resp: 152295

Ion Ratio Lower Upper

41 100

39 70.3 57.2 85.8

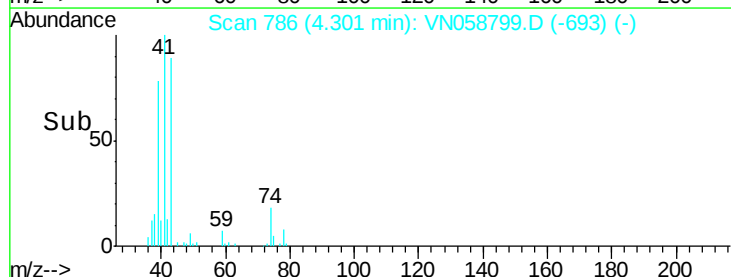
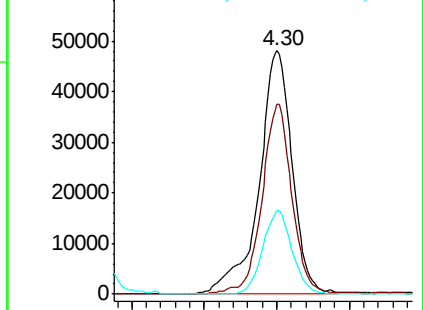
76 30.5 25.0 37.6

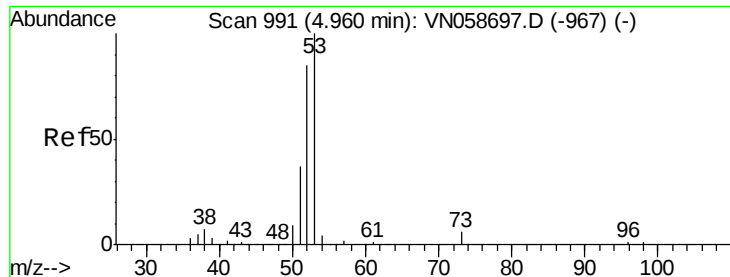


Abundance Ion 41.00 (40.70 to 41.70): VN058799.D (-693) (-)

Ion 39.00 (38.70 to 39.70): VN058799.D (-693) (-)

Ion 75.90 (75.60 to 76.60): VN058799.D (-693) (-)





#15

Acrylonitrile

Concen: 108.882 ug/l

RT: 4.96 min Scan# 991

Delta R.T. 0.00 min

Lab File: VN058799.D

Acq: 16 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

VN1016WBSD01

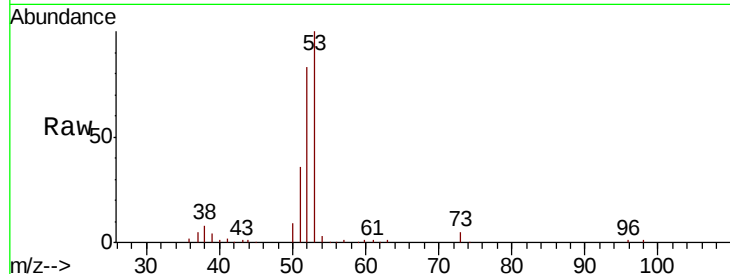
Tot Ion: 53 Resp: 235021

Ion Ratio Lower Upper

53 100

52 83.1 66.2 99.2

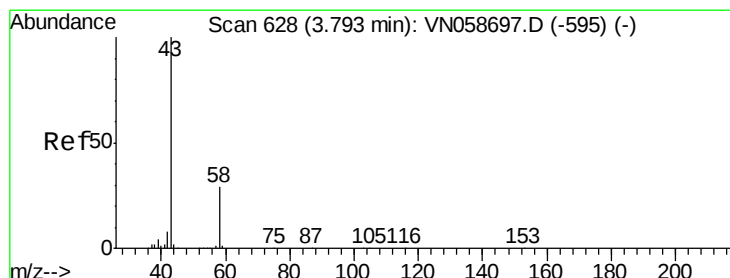
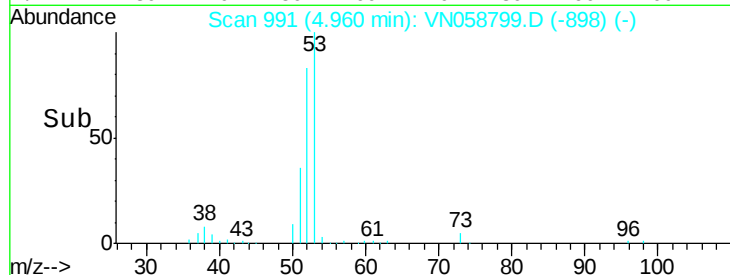
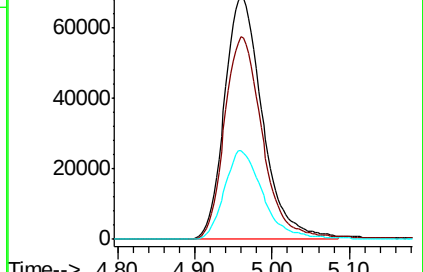
51 37.4 29.4 44.2



Abundance Ion 53.00 (52.70 to 53.70): VN058799.D (-898) (-)

Ion 52.00 (51.70 to 52.70): VN058799.D (-898) (-)

Ion 51.00 (50.70 to 51.70): VN058799.D (-898) (-)



#16

Acetone

Concen: 103.832 ug/l

RT: 3.79 min Scan# 628

Delta R.T. 0.00 min

Lab File: VN058799.D

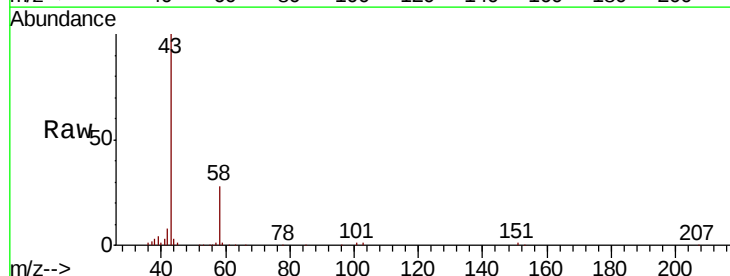
Acq: 16 Oct 2019 14:20

Tgt Ion: 43 Resp: 227182

Ion Ratio Lower Upper

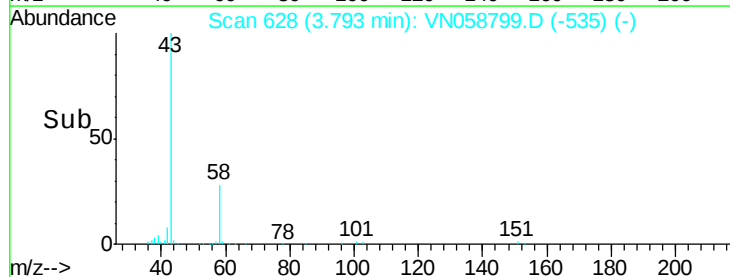
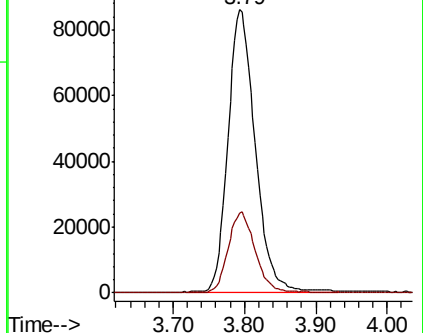
43 100

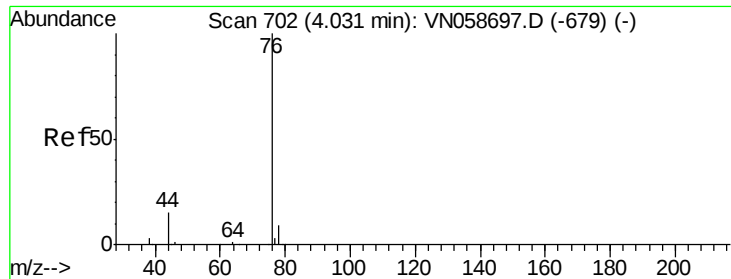
58 28.2 23.3 34.9



Abundance Ion 43.00 (42.70 to 43.70): VN058799.D (-535) (-)

Ion 58.00 (57.70 to 58.70): VN058799.D (-535) (-)

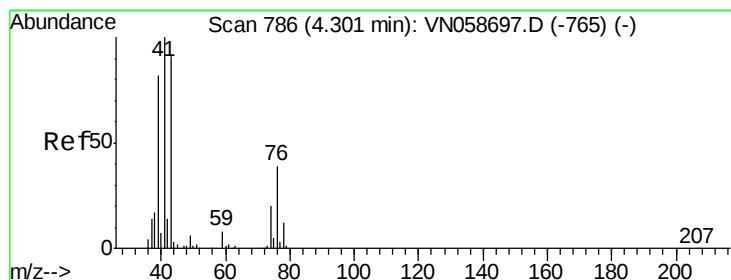
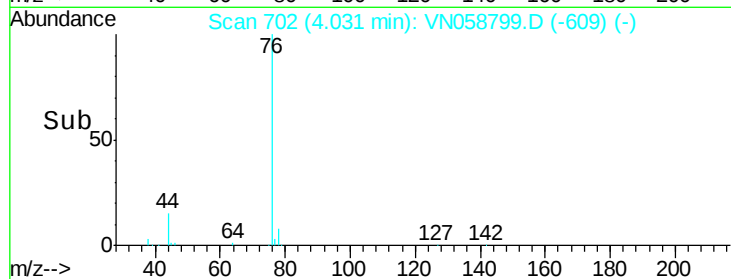
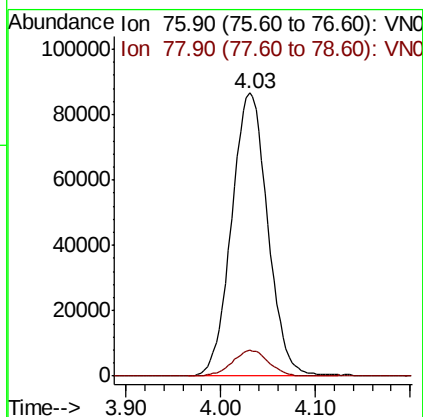
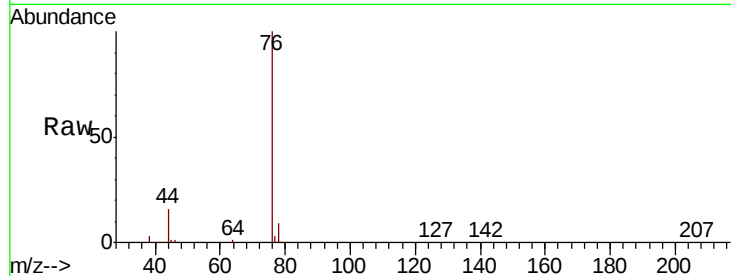




#17
Carbon Disulfide
Concen: 19.848 ug/l
RT: 4.03 min Scan# 702
Delta R.T. 0.00 min
Lab File: VN058799.D
Acq: 16 Oct 2019 14:20

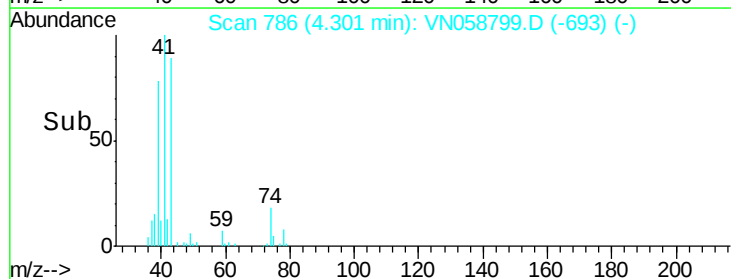
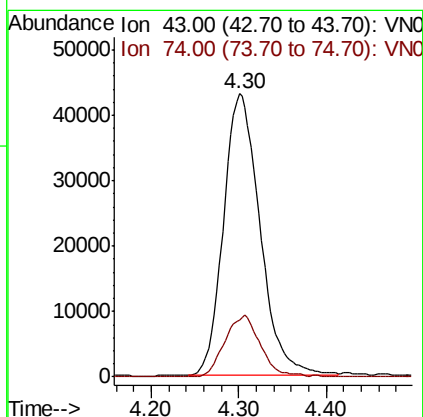
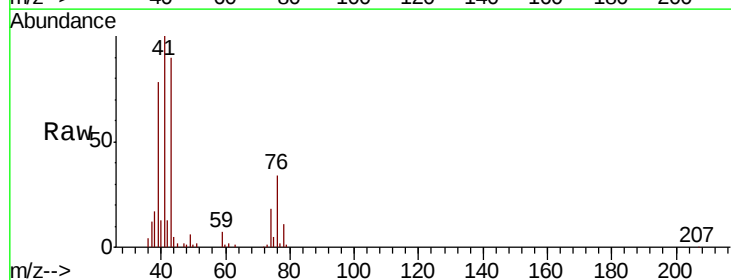
Instrument :
MSVOA_N
ClientSampleId :
VN1016WBSD01

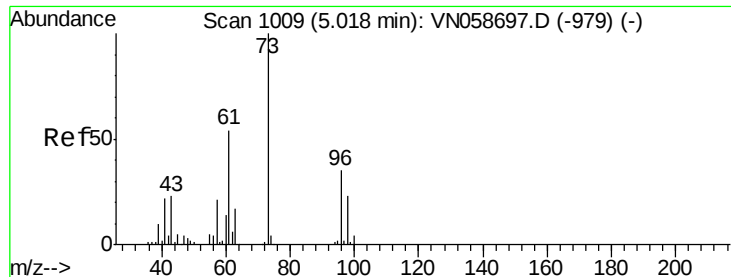
Tot Ion: 76 Resp: 230019
Ion Ratio Lower Upper
76 100
78 9.1 7.1 10.7



#18
Methyl Acetate
Concen: 22.555 ug/l
RT: 4.30 min Scan# 786
Delta R.T. 0.00 min
Lab File: VN058799.D
Acq: 16 Oct 2019 14:20

Tgt Ion: 43 Resp: 125181
Ion Ratio Lower Upper
43 100
74 21.1 17.2 25.8

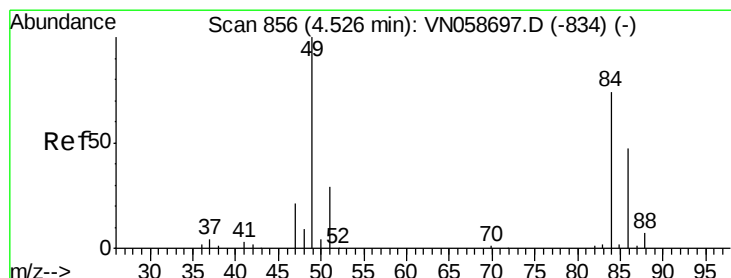
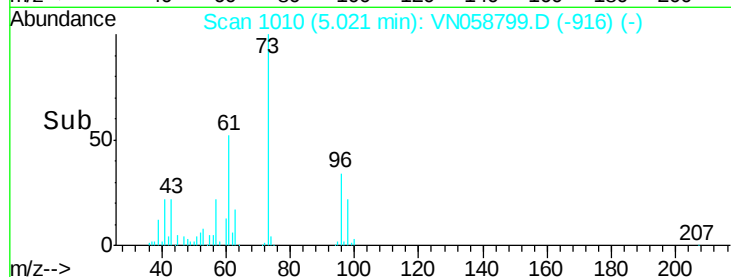
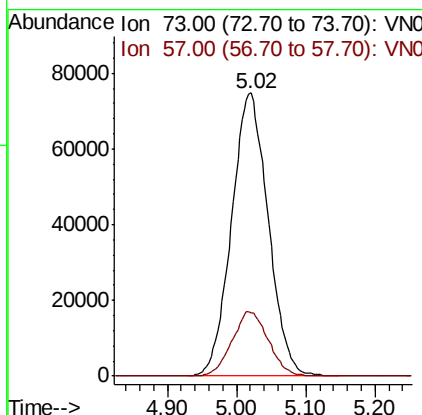
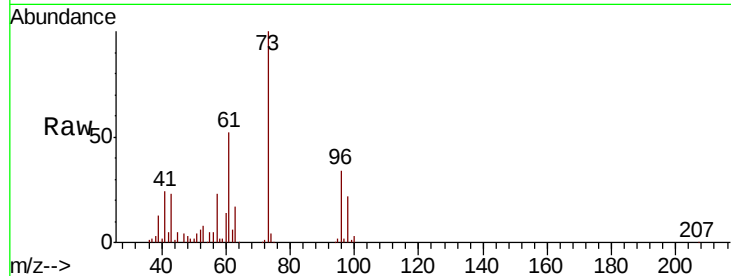




#19
Methyl tert-butyl Ether
Concen: 21.271 ug/l
RT: 5.02 min Scan# 1010
Delta R.T. 0.00 min
Lab File: VN058799.D
Acq: 16 Oct 2019 14:20

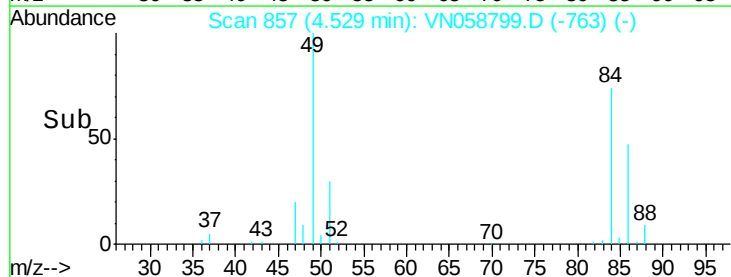
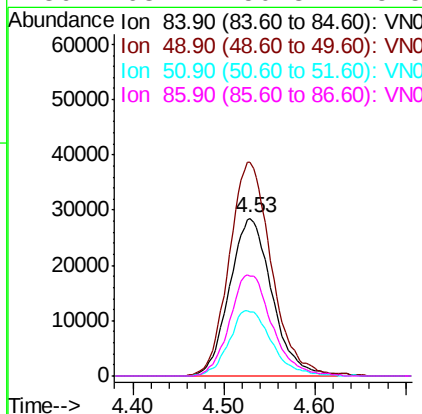
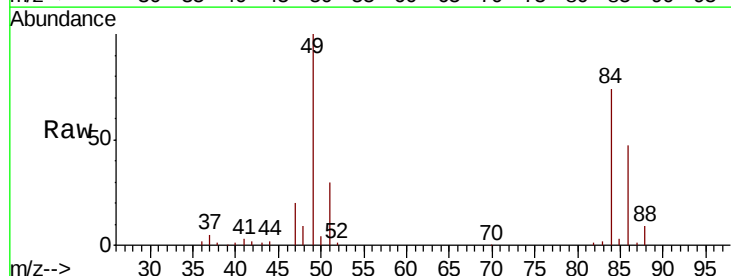
Instrument :
MSVOA_N
ClientSampleId :
VN1016WBSD01

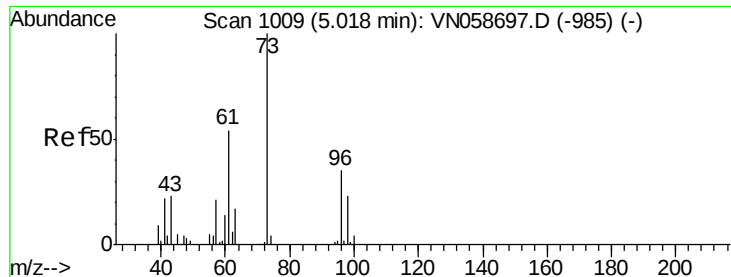
Tot Ion: 73 Resp: 275369
Ion Ratio Lower Upper
73 100
57 22.5 17.0 25.6



#20
Methylene Chloride
Concen: 20.270 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN058799.D
Acq: 16 Oct 2019 14:20

Tgt Ion: 84 Resp: 92690
Ion Ratio Lower Upper
84 100
49 135.0 107.6 161.4
51 40.9 31.4 47.0
86 63.7 50.3 75.5





#21

trans-1,2-Dichloroethene

Concen: 20.528 ug/l

RT: 5.02 min Scan# 1010

Delta R.T. 0.00 min

Lab File: VN058799.D

Acq: 16 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

VN1016WBSD01

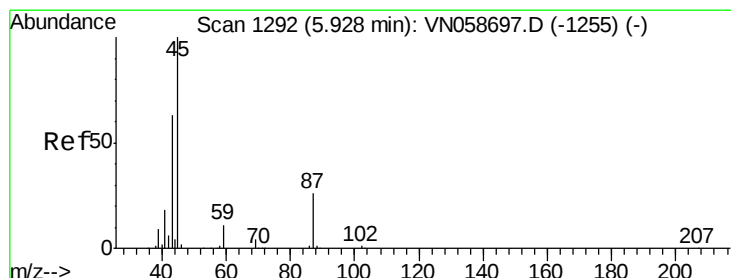
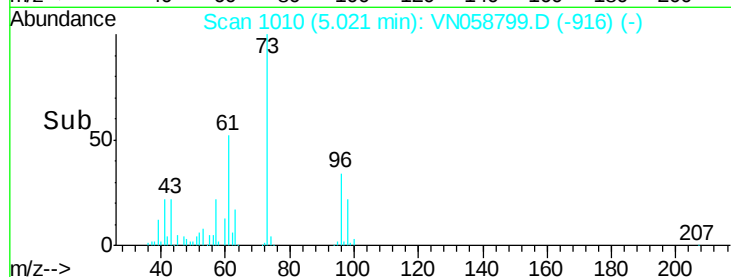
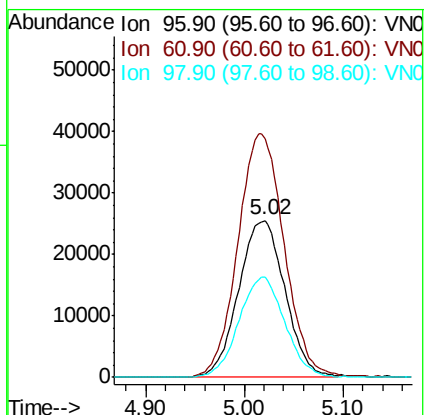
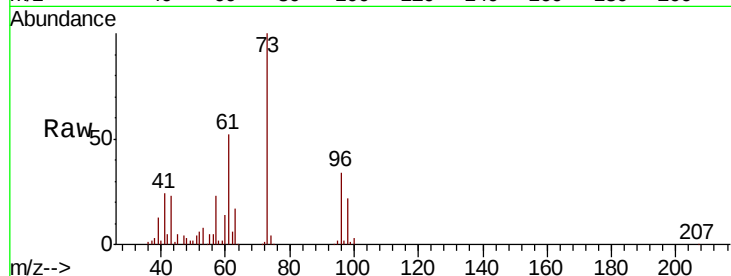
Tot Ion: 96 Resp: 83248

Ion Ratio Lower Upper

96 100

61 152.3 123.6 185.4

98 64.4 52.1 78.1



#22

Diisopropyl ether

Concen: 21.528 ug/l

RT: 5.93 min Scan# 1292

Delta R.T. 0.00 min

Lab File: VN058799.D

Acq: 16 Oct 2019 14:20

Tgt Ion: 45 Resp: 306242

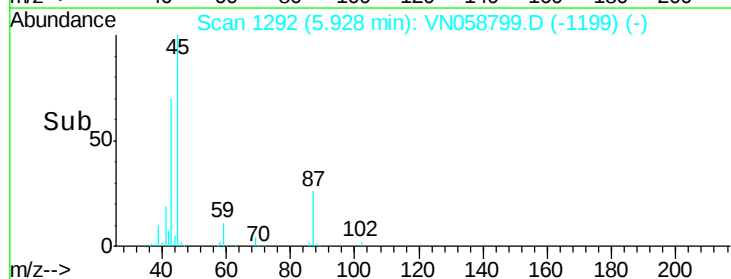
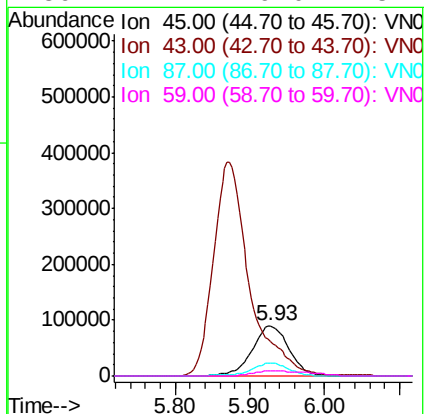
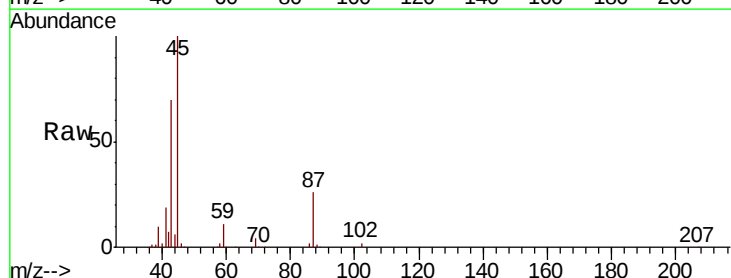
Ion Ratio Lower Upper

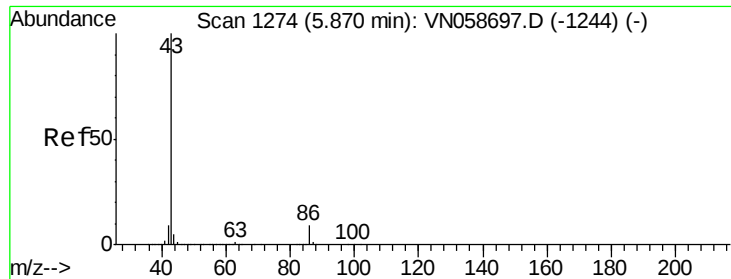
45 100

43 67.0 50.6 75.8

87 26.1 21.1 31.7

59 11.2 9.0 13.4





#23

Vinyl Acetate

Concen: 111.696 ug/l

RT: 5.87 min Scan# 1275

Delta R.T. 0.00 min

Lab File: VN058799.D

Acq: 16 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

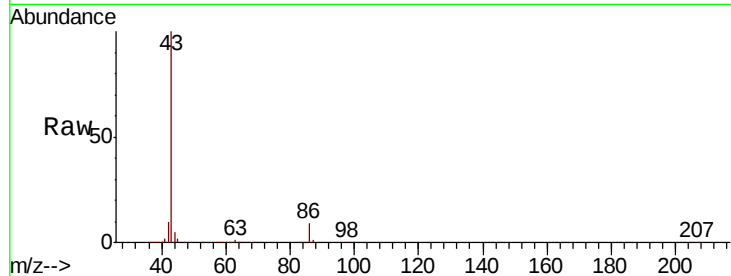
VN1016WBSD01

Tot Ion: 43 Resp: 1282101

Ion Ratio Lower Upper

43 100

86 8.9 7.4 11.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0

5.87

400000

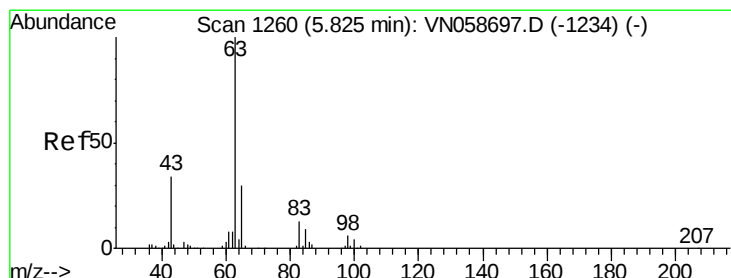
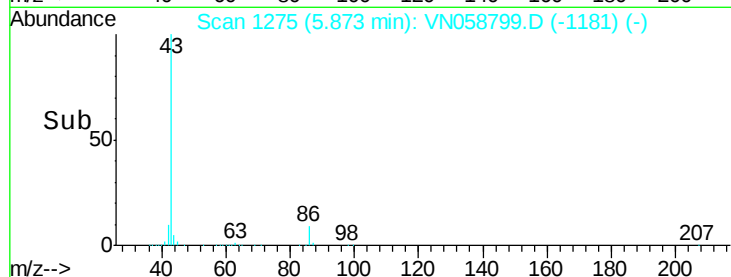
300000

200000

100000

0

Time--> 5.70 5.80 5.90 6.00 6.10



#24

1,1-Dichloroethane

Concen: 21.413 ug/l

RT: 5.83 min Scan# 1261

Delta R.T. 0.00 min

Lab File: VN058799.D

Acq: 16 Oct 2019 14:20

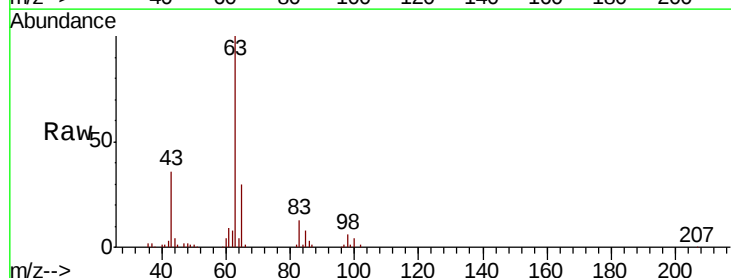
Tgt Ion: 63 Resp: 173481

Ion Ratio Lower Upper

63 100

98 5.6 2.9 8.6

100 3.9 1.8 5.5



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0

5.83

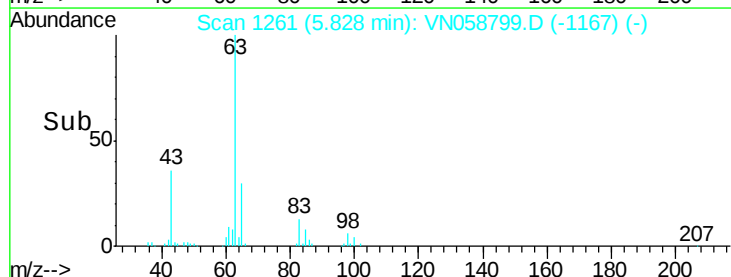
60000

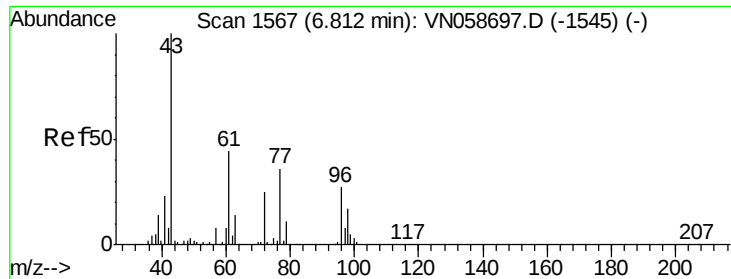
40000

20000

0

Time--> 5.70 5.80 5.90 6.00





#25

2-Butanone

Concen: 104.805 ug/l

RT: 6.82 min Scan# 1568

Delta R.T. 0.00 min

Lab File: VN058799.D

Acq: 16 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

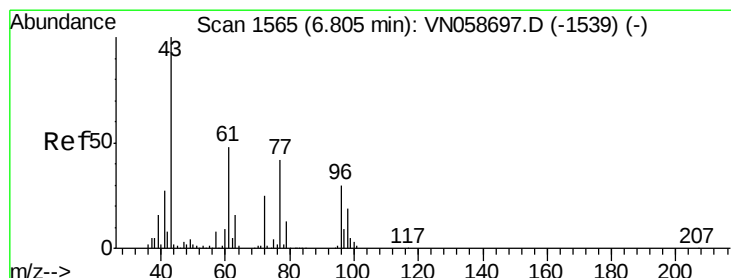
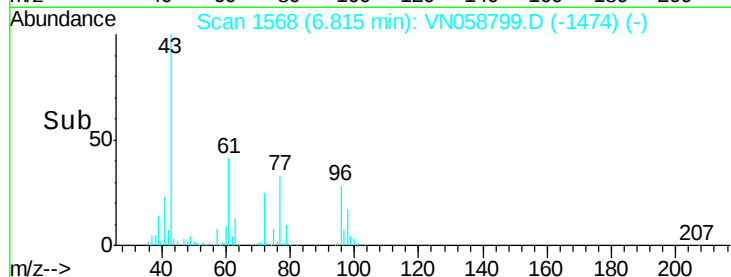
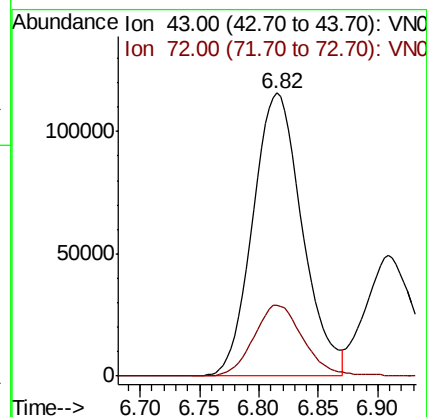
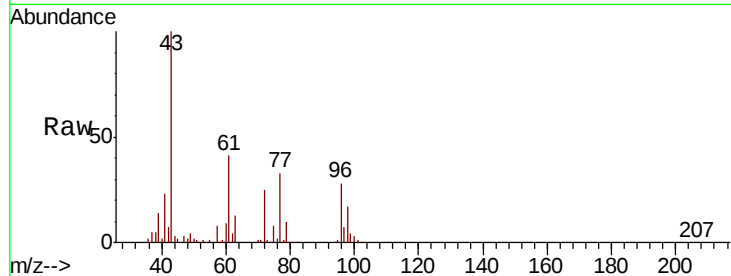
VN1016WBSD01

Tot Ion: 43 Resp: 331445

Ion Ratio Lower Upper

43 100

72 25.0 20.2 30.2



#26

2,2-Dichloropropane

Concen: 19.270 ug/l

RT: 6.80 min Scan# 1563

Delta R.T. -0.01 min

Lab File: VN058799.D

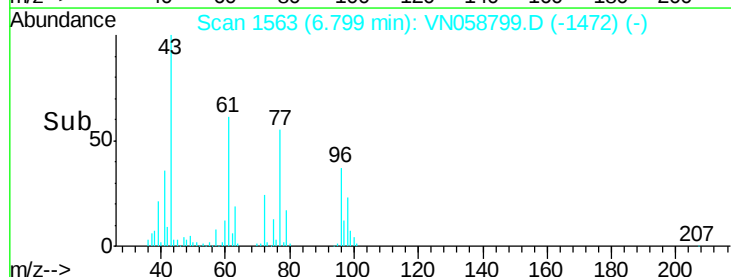
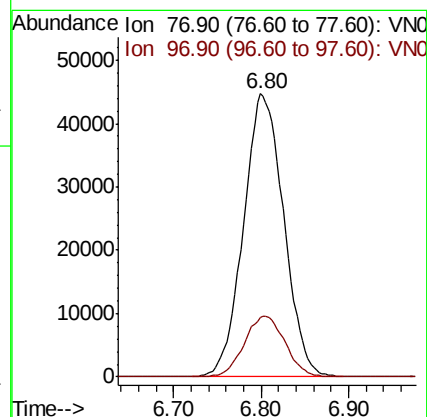
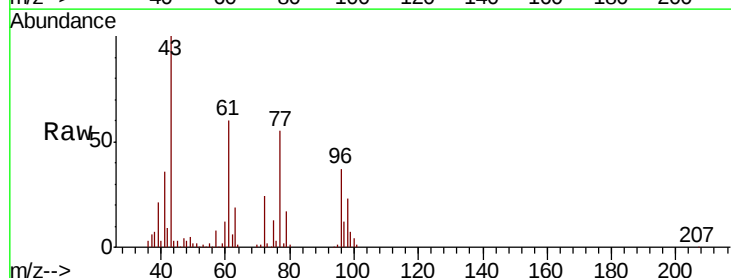
Acq: 16 Oct 2019 14:20

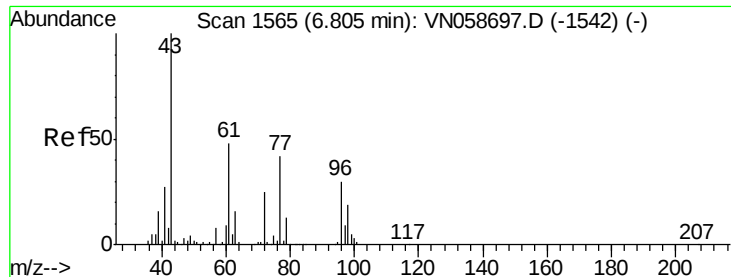
Tgt Ion: 77 Resp: 142511

Ion Ratio Lower Upper

77 100

97 21.7 10.7 31.9





#27

cis-1,2-Dichloroethene

Concen: 20.724 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. 0.00 min

Lab File: VN058799.D

Acq: 16 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

VN1016WBSD01

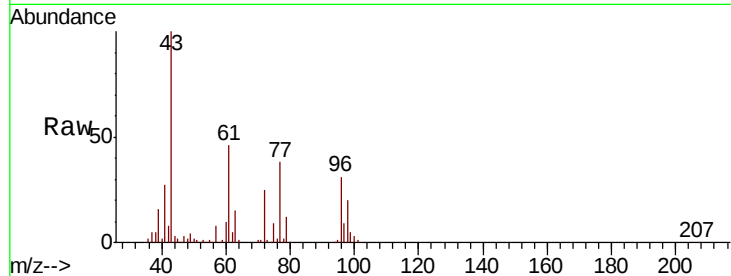
Tot Ion: 96 Resp: 98001

Ion Ratio Lower Upper

96 100

61 157.8 0.0 324.8

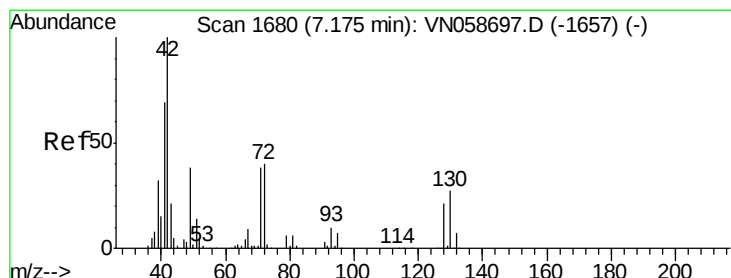
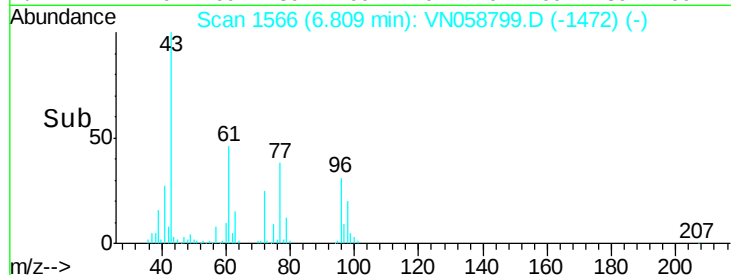
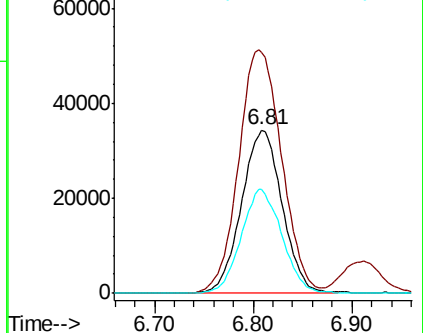
98 63.5 0.0 129.2



Abundance Ion 95.90 (95.60 to 96.60): VN058799.D (-1472) (-)

Ion 60.90 (60.60 to 61.60): VN058799.D (-1472) (-)

Ion 97.90 (97.60 to 98.60): VN058799.D (-1472) (-)



#28

Bromochloromethane

Concen: 21.010 ug/l

RT: 7.18 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VN058799.D

Acq: 16 Oct 2019 14:20

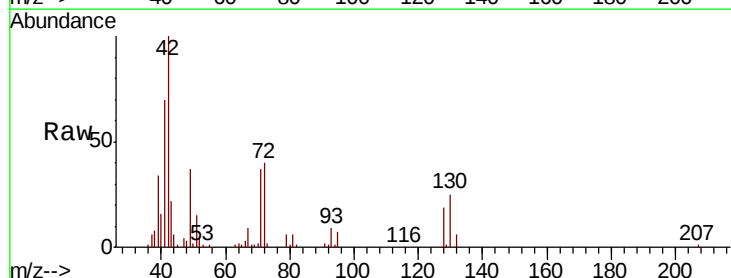
Tgt Ion: 49 Resp: 59217

Ion Ratio Lower Upper

49 100

129 1.4 0.0 3.6

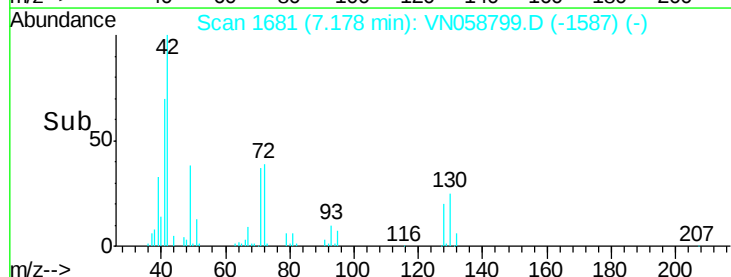
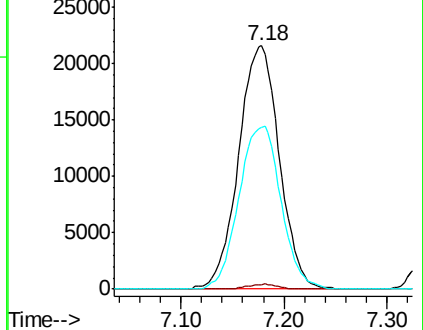
130 69.1 55.0 82.4

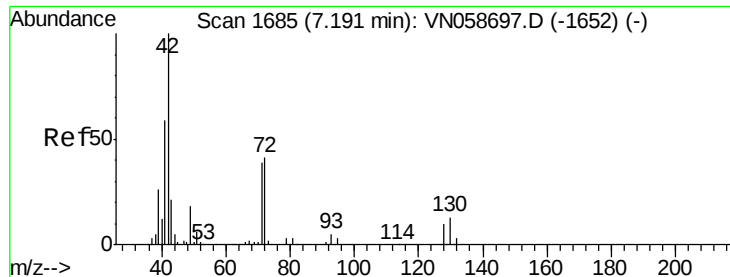


Abundance Ion 48.90 (48.60 to 49.60): VN058799.D (-1587) (-)

Ion 128.80 (128.50 to 129.50): VN058799.D (-1587) (-)

Ion 129.80 (129.50 to 130.50): VN058799.D (-1587) (-)

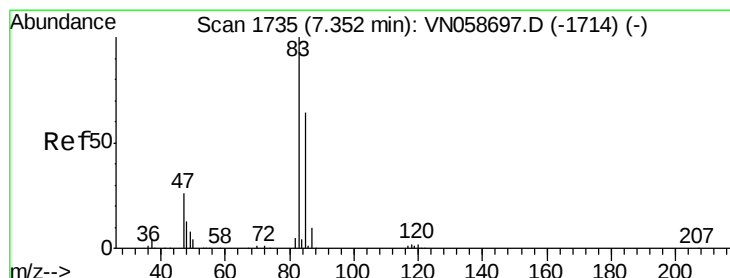
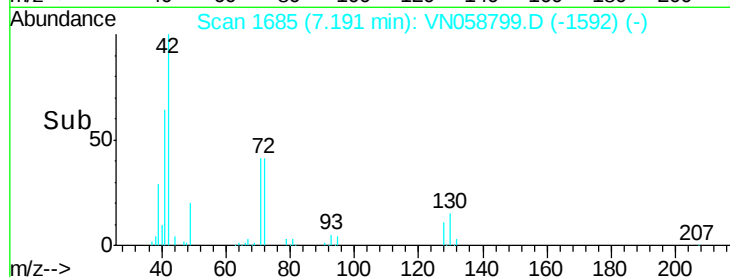
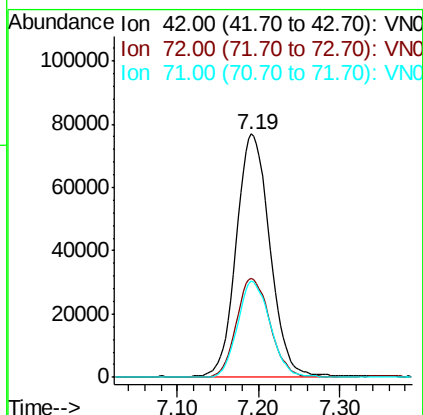
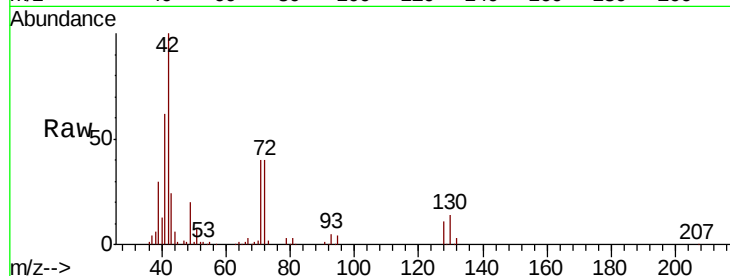




#29
Tetrahydrofuran
Concen: 106.758 ug/l
RT: 7.19 min Scan# 1685
Delta R.T. 0.00 min
Lab File: VN058799.D
Acq: 16 Oct 2019 14:20

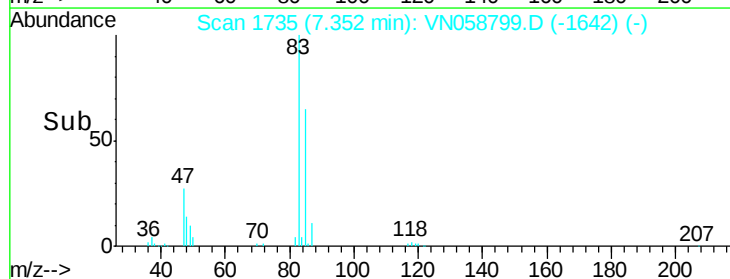
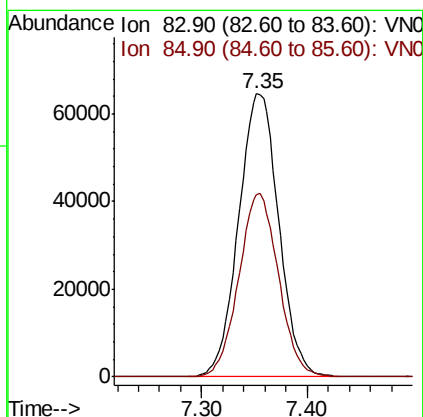
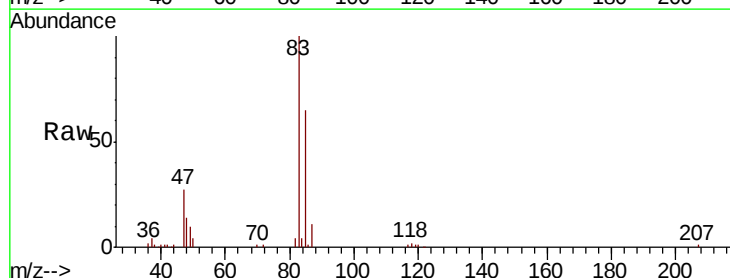
Instrument :
MSVOA_N
ClientSampleId :
VN1016WBSD01

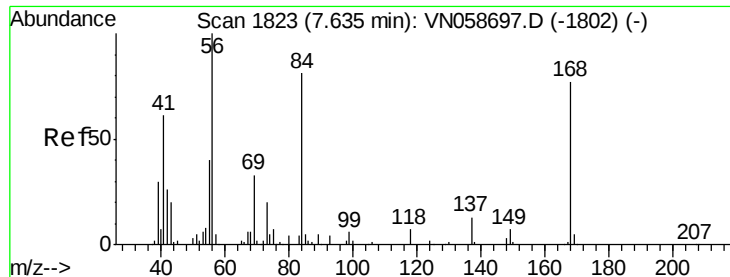
Tot Ion: 42 Resp: 218181
Ion Ratio Lower Upper
42 100
72 40.9 32.8 49.2
71 38.6 31.1 46.7



#30
Chloroform
Concen: 21.033 ug/l
RT: 7.35 min Scan# 1735
Delta R.T. 0.00 min
Lab File: VN058799.D
Acq: 16 Oct 2019 14:20

Tgt Ion: 83 Resp: 171206
Ion Ratio Lower Upper
83 100
85 64.6 51.0 76.6

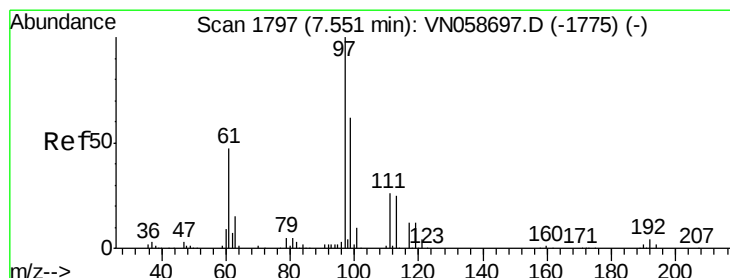
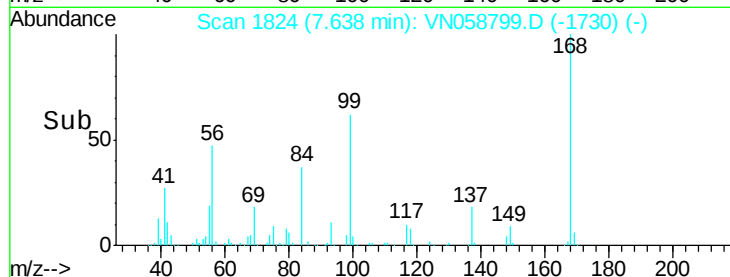
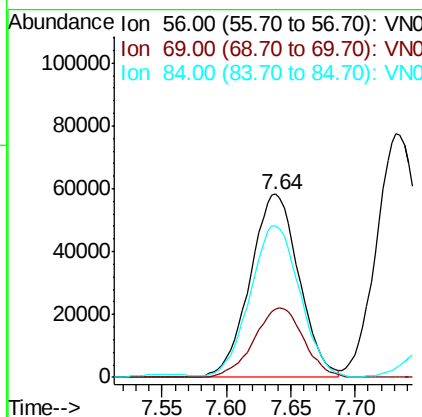
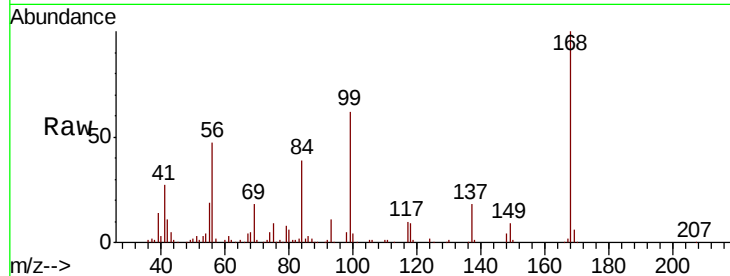




#31
Cyclohexane
Concen: 19.858 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. 0.00 min
Lab File: VN058799.D
Acq: 16 Oct 2019 14:20

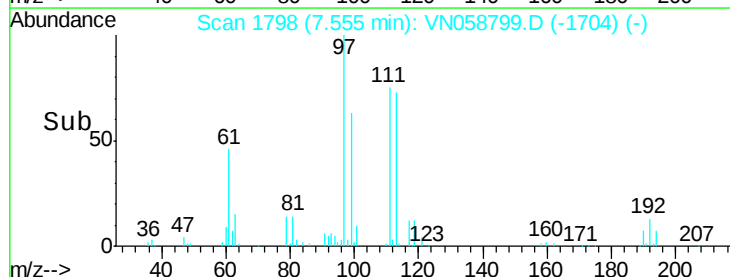
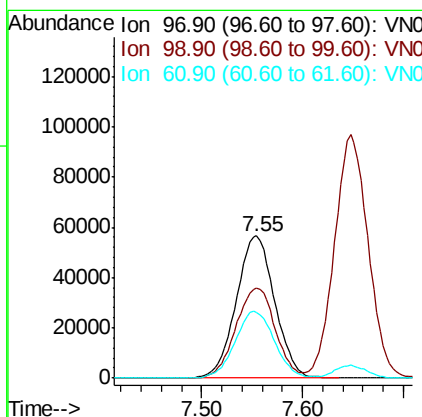
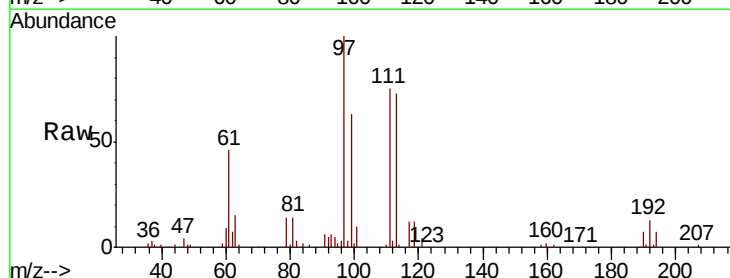
Instrument :
MSVOA_N
ClientSampleId :
VN1016WBSD01

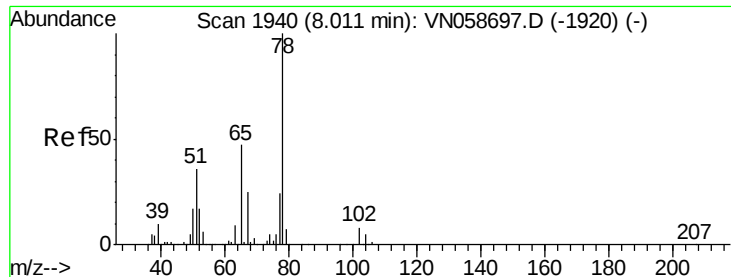
Tot Ion: 56 Resp: 153940
Ion Ratio Lower Upper
56 100
69 37.5 26.2 39.4
84 81.9 64.9 97.3



#32
1,1,1-Trichloroethane
Concen: 21.532 ug/l
RT: 7.55 min Scan# 1798
Delta R.T. 0.00 min
Lab File: VN058799.D
Acq: 16 Oct 2019 14:20

Tgt Ion: 97 Resp: 149472
Ion Ratio Lower Upper
97 100
99 64.7 50.8 76.2
61 47.9 38.1 57.1





#33

1,2-Dichloroethane-d4

Concen: 50.500 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. 0.00 min

Lab File: VN058799.D

Acq: 16 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

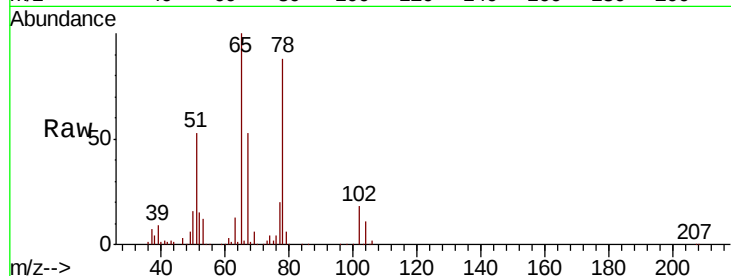
VN1016WBSD01

Tot Ion: 65 Resp: 266896

Ion Ratio Lower Upper

65 100

67 52.4 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN058799.D (-1847) (-)

Ion 66.90 (66.60 to 67.60): VN058799.D (-1847) (-)

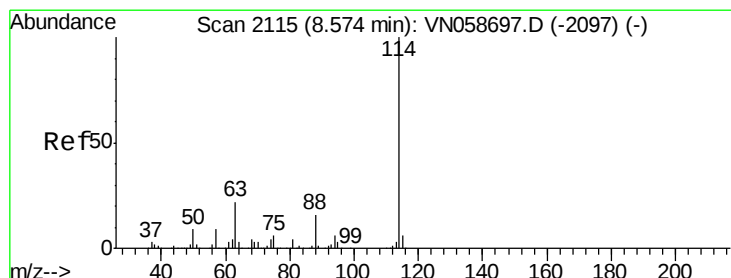
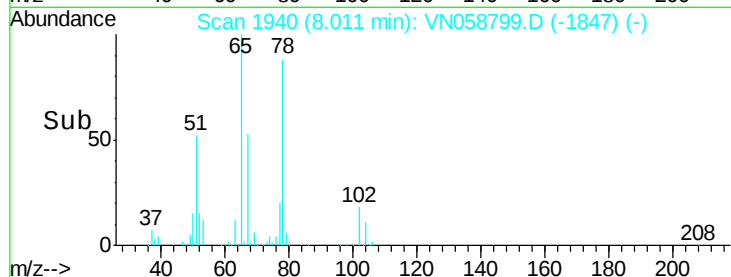
8.01

100000

50000

0

Time--> 7.90 7.95 8.00 8.05 8.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2115

Delta R.T. 0.00 min

Lab File: VN058799.D

Acq: 16 Oct 2019 14:20

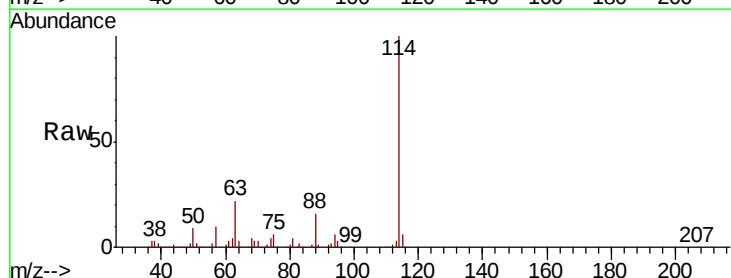
Tgt Ion: 114 Resp: 614693

Ion Ratio Lower Upper

114 100

63 22.0 0.0 43.8

88 16.4 0.0 32.0



Abundance Ion 113.90 (113.60 to 114.60): VN058799.D (-2022) (-)

Ion 63.00 (62.70 to 63.70): VN058799.D (-2022) (-)

Ion 87.90 (87.60 to 88.60): VN058799.D (-2022) (-)

8.57

400000

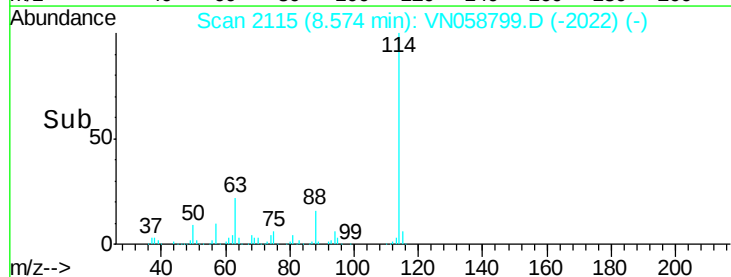
300000

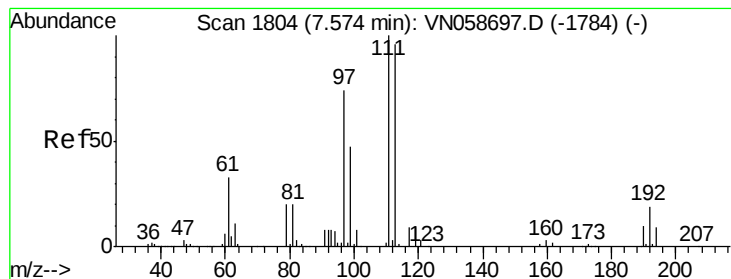
200000

100000

0

Time--> 8.50 8.55 8.60 8.65 8.70





#35

Dibromofluoromethane

Concen: 50.952 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN058799.D

Acq: 16 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

VN1016WBSD01

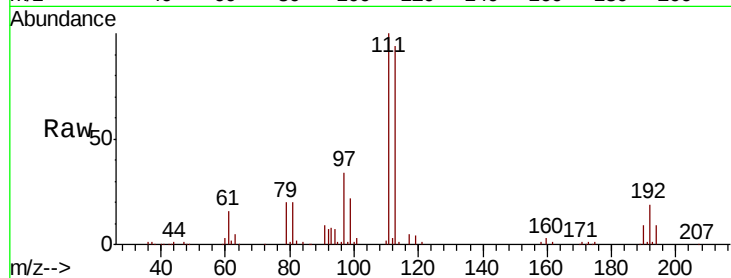
Tot Ion:113 Resp: 193457

Ion Ratio Lower Upper

113 100

111 103.8 82.3 123.5

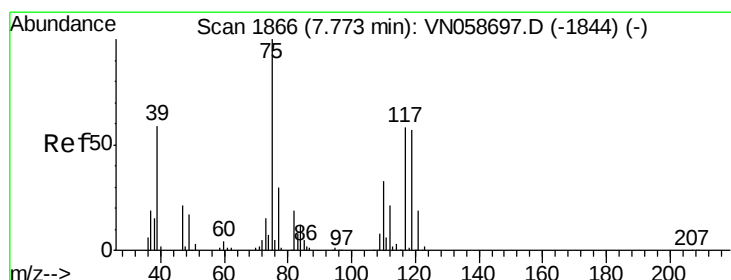
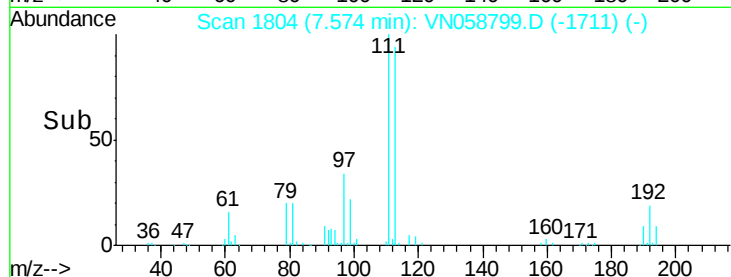
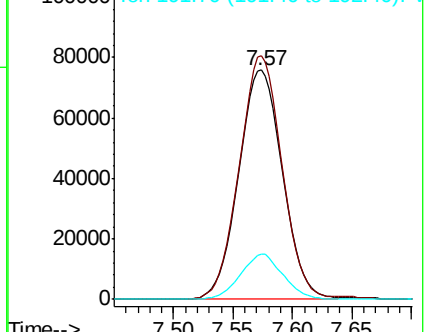
192 19.3 15.0 22.6



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 20.424 ug/l

RT: 7.78 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VN058799.D

Acq: 16 Oct 2019 14:20

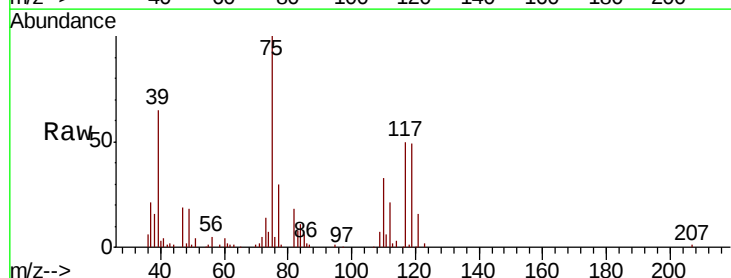
Tgt Ion: 75 Resp: 126935

Ion Ratio Lower Upper

75 100

110 32.7 16.6 49.8

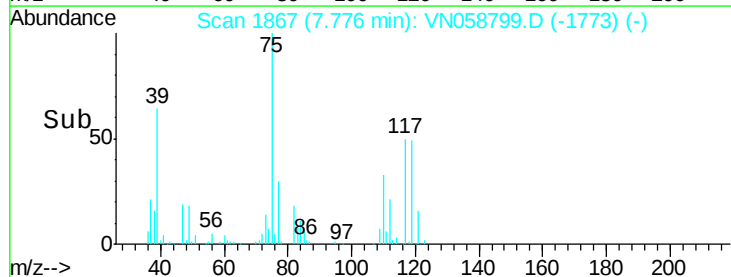
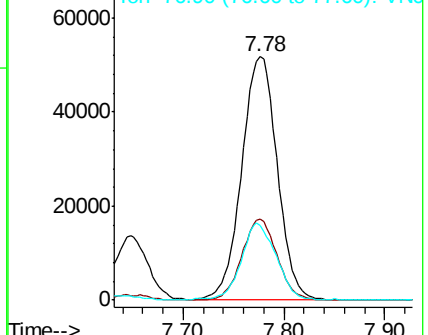
77 30.7 24.6 37.0

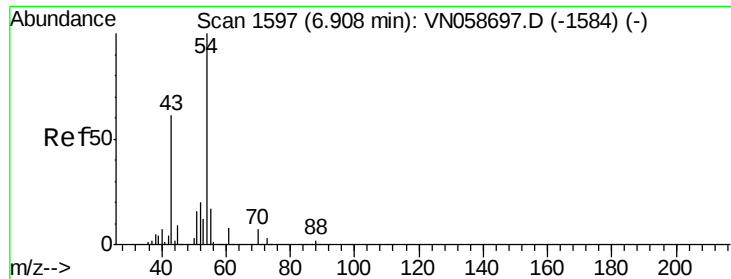


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

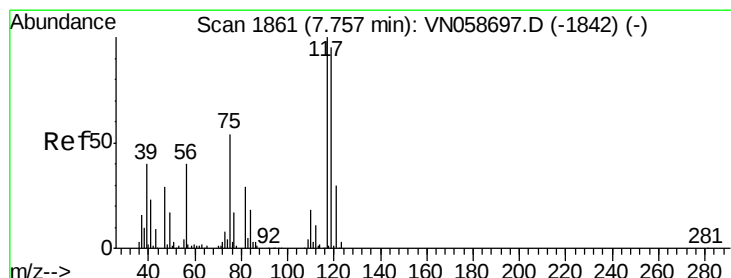
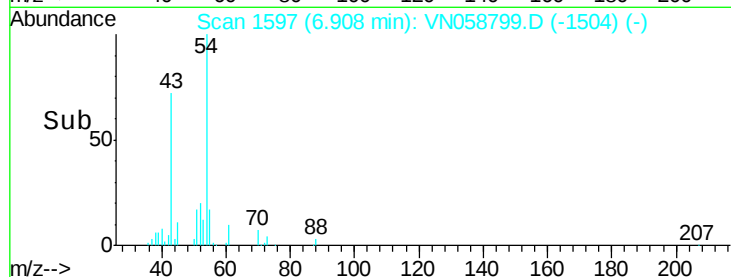
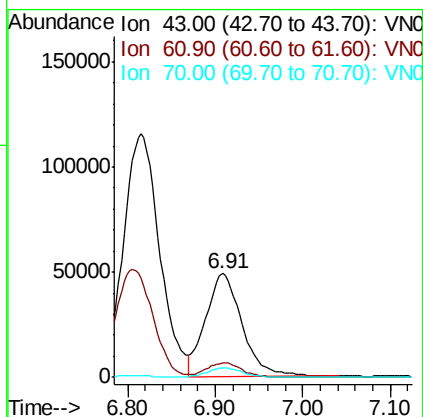
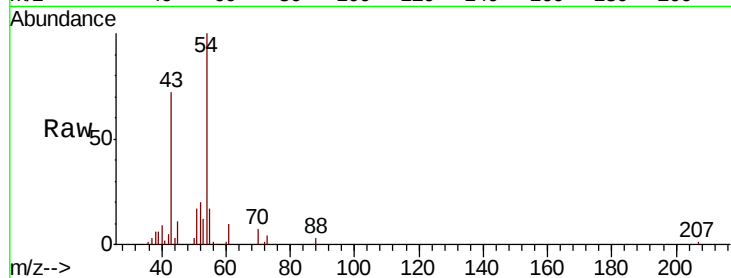




#37
Ethyl Acetate
Concen: 22.596 ug/l
RT: 6.91 min Scan# 1597
Delta R.T. 0.00 min
Lab File: VN058799.D
Acq: 16 Oct 2019 14:20

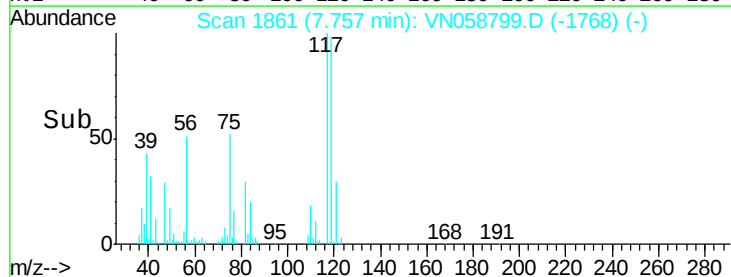
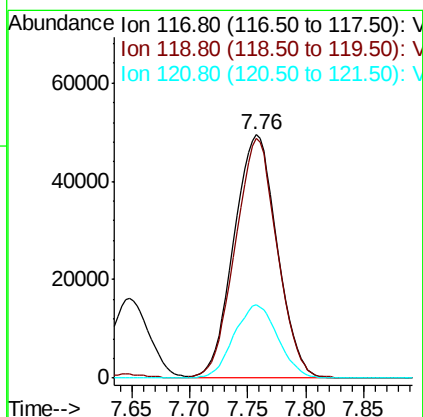
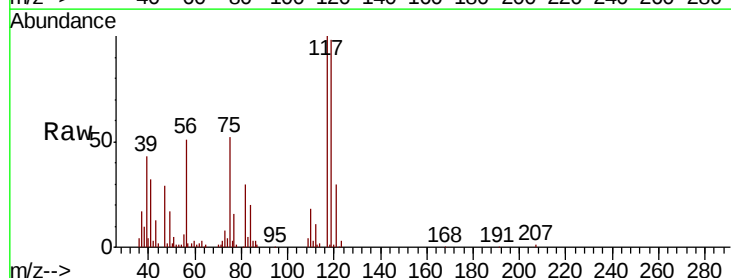
Instrument :
MSVOA_N
ClientSampled :
VN1016WBSD01

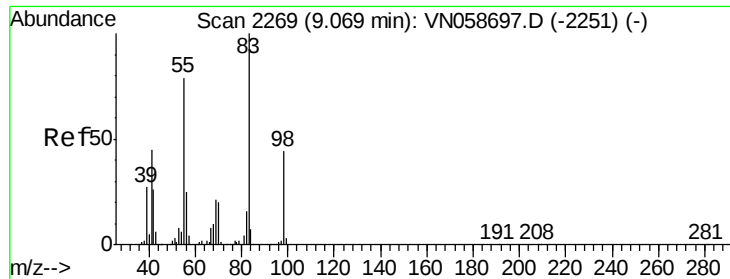
Tot Ion: 43 Resp: 142026
Ion Ratio Lower Upper
43 100
61 13.8 11.3 16.9
70 8.9 7.2 10.8



#38
Carbon Tetrachloride
Concen: 21.175 ug/l
RT: 7.76 min Scan# 1861
Delta R.T. 0.00 min
Lab File: VN058799.D
Acq: 16 Oct 2019 14:20

Tgt Ion: 117 Resp: 128260
Ion Ratio Lower Upper
117 100
119 98.2 75.7 113.5
121 30.1 23.9 35.9

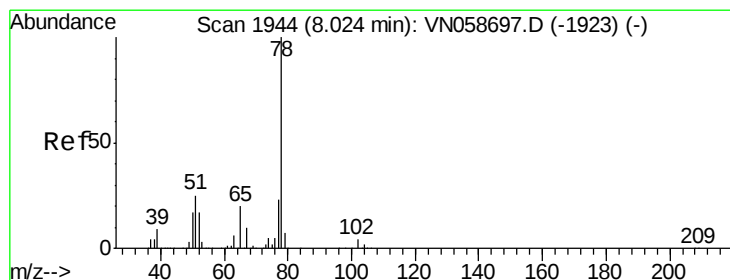
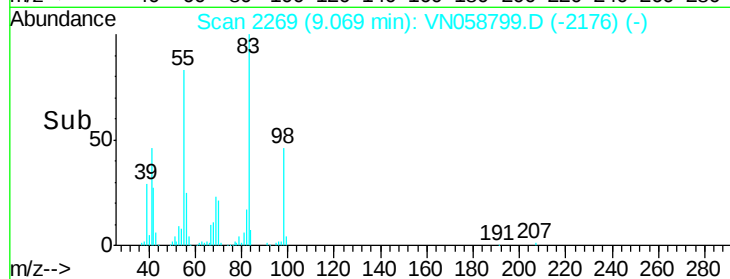
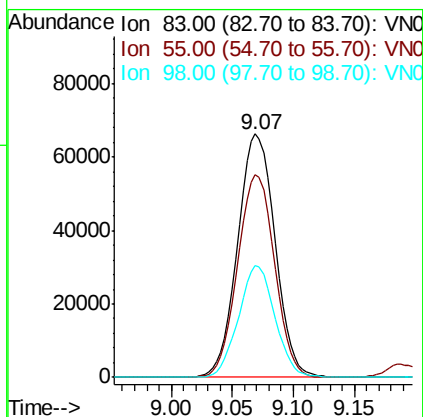
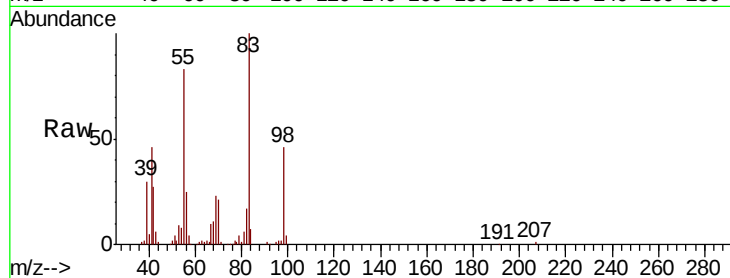




#39
Methvlcvclohexane
Concen: 19.512 ug/l
RT: 9.07 min Scan# 2269
Delta R.T. 0.00 min
Lab File: VN058799.D
Acq: 16 Oct 2019 14:20

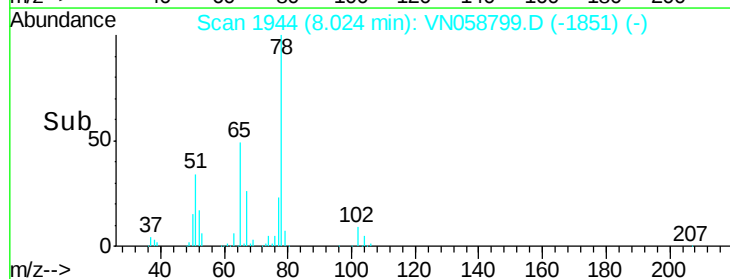
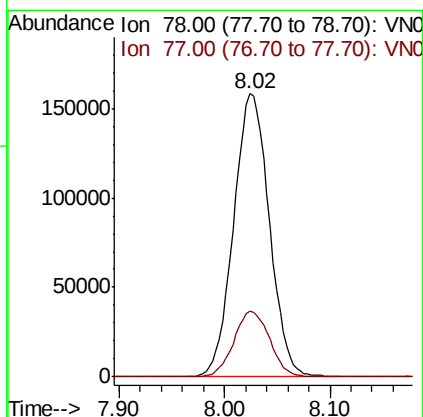
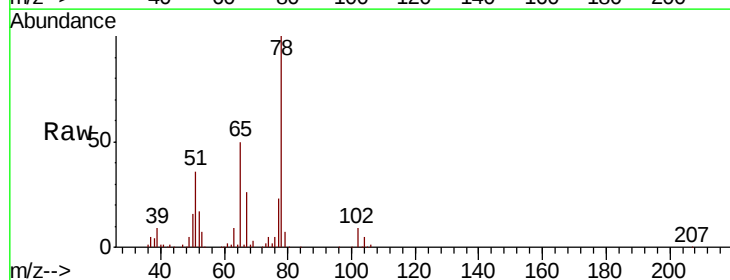
Instrument :
MSVOA_N
ClientSampleId :
VN1016WBSD01

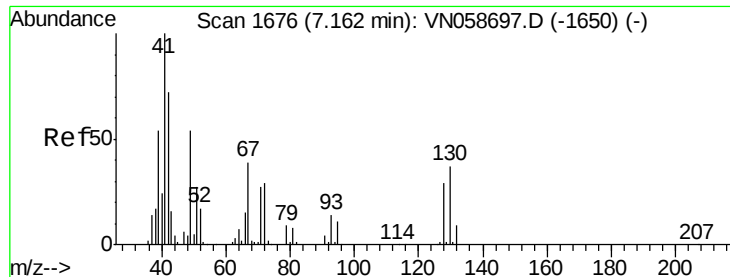
Tot Ion: 83 Resp: 140716
Ion Ratio Lower Upper
83 100
55 83.1 63.4 95.0
98 45.7 35.1 52.7



#40
Benzene
Concen: 20.837 ug/l
RT: 8.02 min Scan# 1944
Delta R.T. 0.00 min
Lab File: VN058799.D
Acq: 16 Oct 2019 14:20

Tgt Ion: 78 Resp: 371919
Ion Ratio Lower Upper
78 100
77 23.1 18.8 28.2

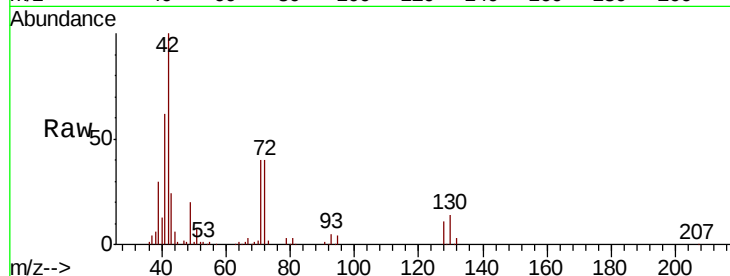




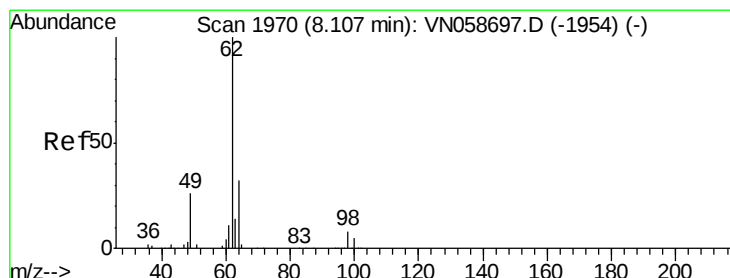
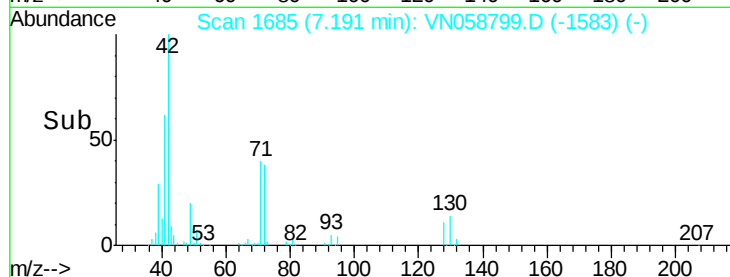
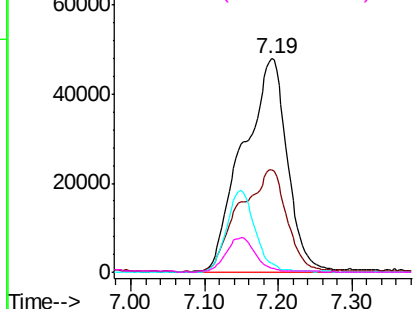
#41
Methacrylonitrile
Concen: 68.354 ug/l
RT: 7.19 min Scan# 1685
Delta R.T. 0.03 min
Lab File: VN058799.D
Acq: 16 Oct 2019 14:20

Instrument :
MSVOA_N
ClientSampled :
VN1016WBSD01

Tot Ion: 41 Resp: 201113
Ion Ratio Lower Upper
41 100
39 51.3 115.4 173.2#
67 0.0 0.0 0.0
52 0.0 0.0 0.0

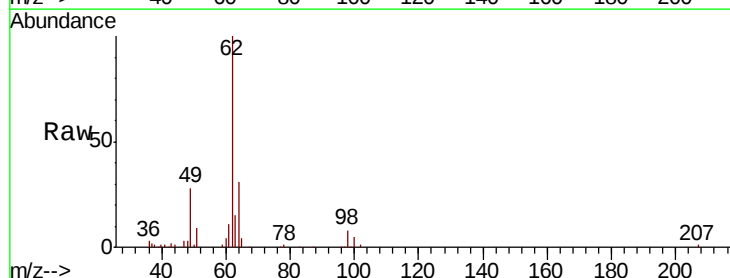


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 39.00 (38.70 to 39.70): VNC
Ion 67.00 (66.70 to 67.70): VNC
Ion 52.00 (51.70 to 52.70): VNC

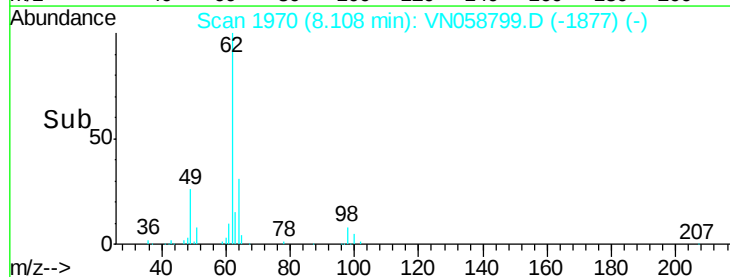
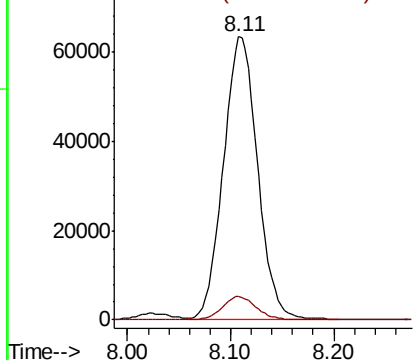


#42
1,2-Dichloroethane
Concen: 21.266 ug/l
RT: 8.11 min Scan# 1970
Delta R.T. 0.00 min
Lab File: VN058799.D
Acq: 16 Oct 2019 14:20

Tgt Ion: 62 Resp: 145831
Ion Ratio Lower Upper
62 100
98 8.2 0.0 15.8



Abundance Ion 61.90 (61.60 to 62.60): VNC
Ion 97.90 (97.60 to 98.60): VNC





#43

Isopropyl Acetate

Concen: 20.713 ug/l

RT: 8.15 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VN058799.D

Acq: 16 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

VN1016WBSD01

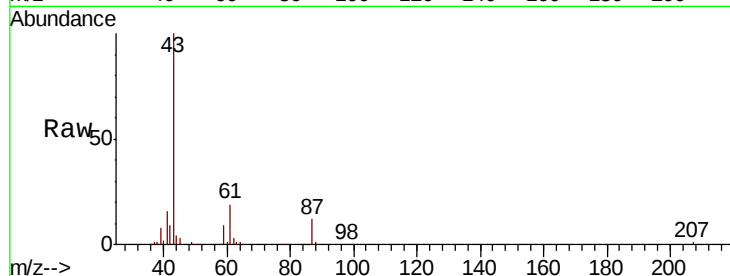
Tot Ion: 43 Resp: 221781

Ion Ratio Lower Upper

43 100

61 25.8 20.3 30.5

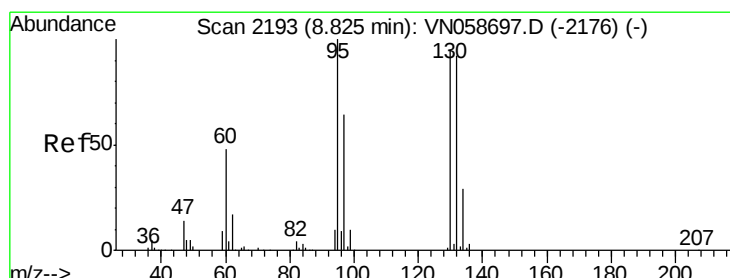
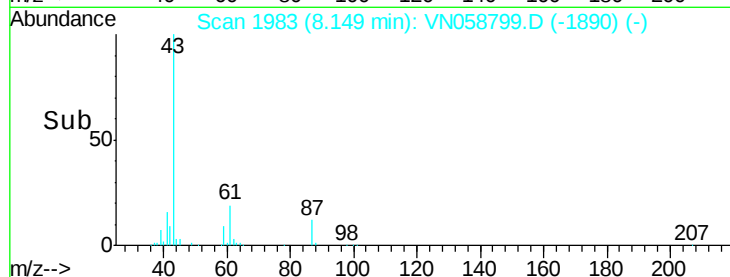
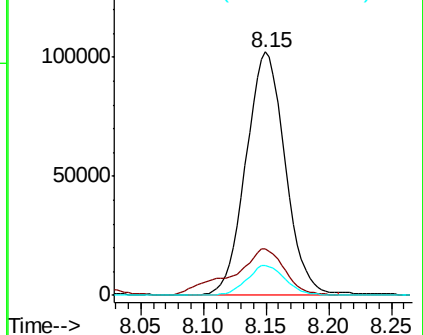
87 12.1 9.8 14.6



Abundance Ion 43.00 (42.70 to 43.70): VN058799.D (-1890) (-)

Ion 61.00 (60.70 to 61.70): VN058799.D (-1890) (-)

Ion 87.00 (86.70 to 87.70): VN058799.D (-1890) (-)



#44

Trichloroethene

Concen: 20.554 ug/l

RT: 8.82 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VN058799.D

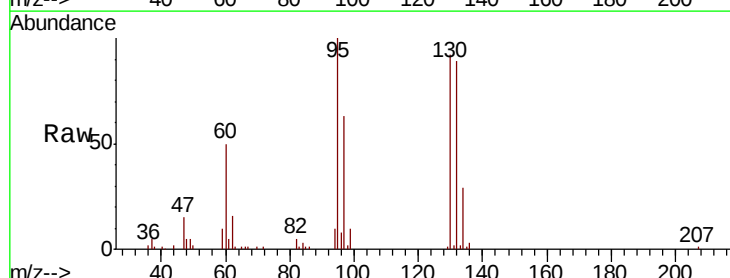
Acq: 16 Oct 2019 14:20

Tgt Ion: 130 Resp: 91107

Ion Ratio Lower Upper

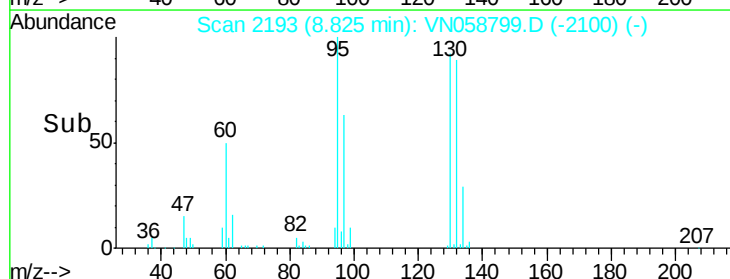
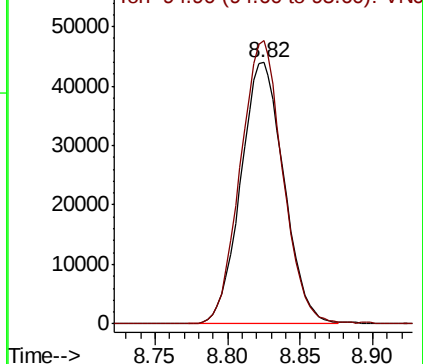
130 100

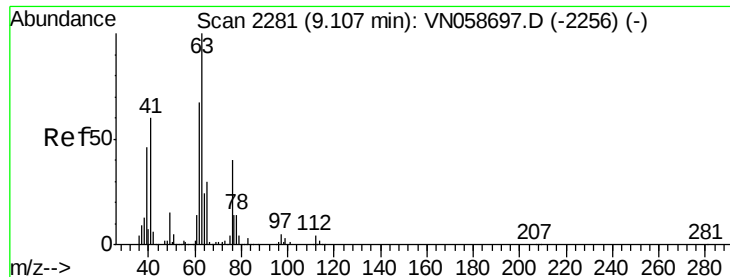
95 108.4 0.0 211.2



Abundance Ion 129.80 (129.50 to 130.50): VN058799.D (-2100) (-)

Ion 94.90 (94.60 to 95.60): VN058799.D (-2100) (-)

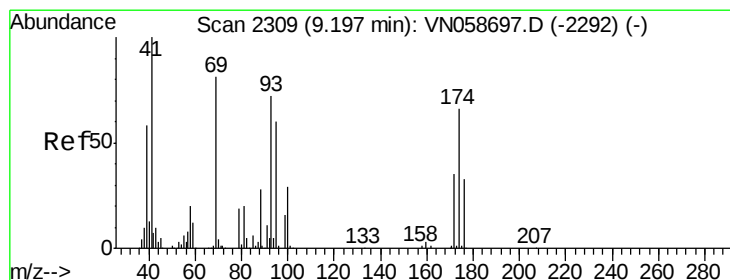
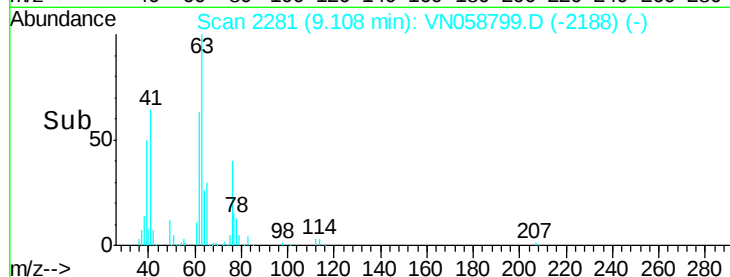
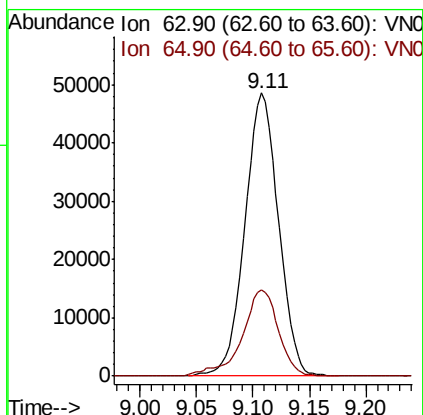
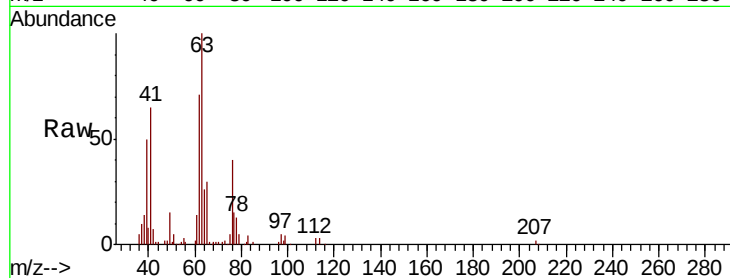




#45
 1,2-Dichloropropane
 Concen: 21.048 ug/l
 RT: 9.11 min Scan# 2281
 Delta R.T. 0.00 min
 Lab File: VN058799.D
 Acq: 16 Oct 2019 14:20

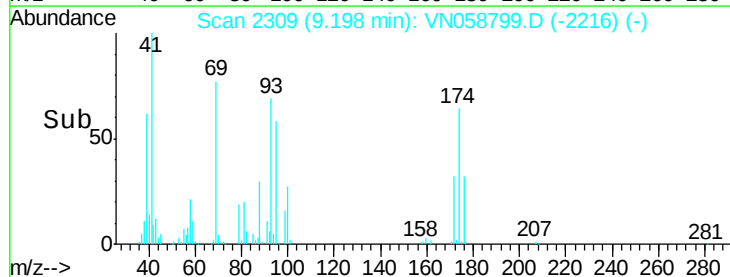
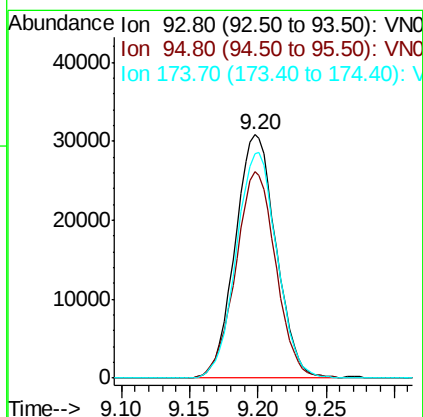
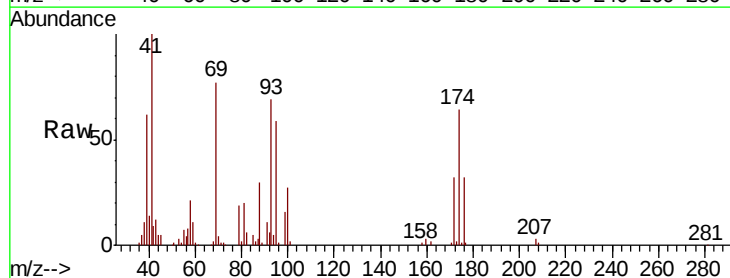
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1016WBSD01

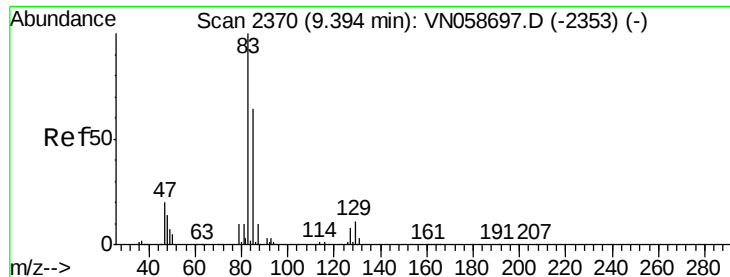
Tot Ion: 63 Resp: 100575
 Ion Ratio Lower Upper
 63 100
 65 30.4 24.1 36.1



#46
 Dibromomethane
 Concen: 21.139 ug/l
 RT: 9.20 min Scan# 2309
 Delta R.T. 0.00 min
 Lab File: VN058799.D
 Acq: 16 Oct 2019 14:20

Tgt Ion: 93 Resp: 64039
 Ion Ratio Lower Upper
 93 100
 95 83.6 66.6 100.0
 174 92.5 75.2 112.8





#47

Bromodichloromethane

Concen: 21.906 ug/l

RT: 9.39 min Scan# 2370

Delta R.T. 0.00 min

Lab File: VN058799.D

Acq: 16 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

VN1016WBSD01

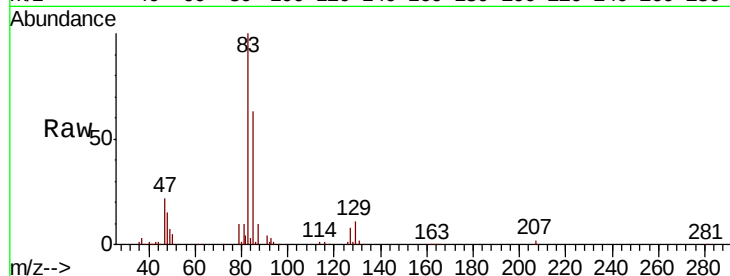
Tot Ion: 83 Resp: 135139

Ion Ratio Lower Upper

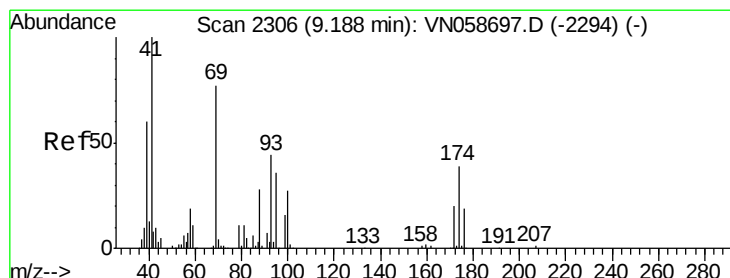
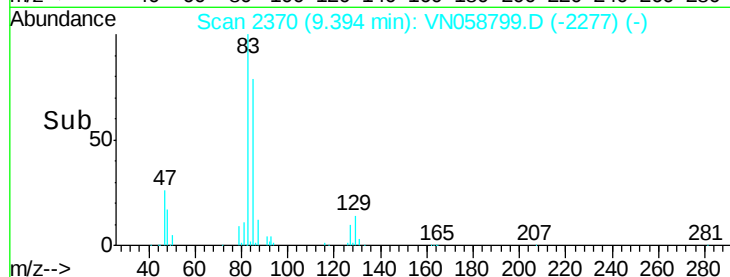
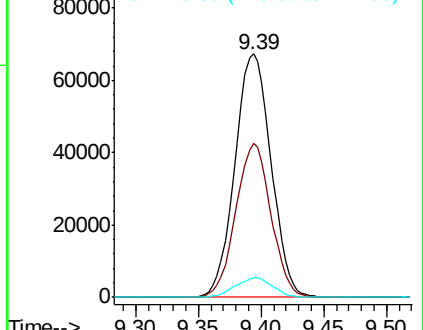
83 100

85 63.2 50.9 76.3

127 7.9 6.3 9.5



Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 84.90 (84.60 to 85.60): VNO
Ion 126.80 (126.50 to 127.50): VNO



#48

Methyl methacrylate

Concen: 21.010 ug/l

RT: 9.19 min Scan# 2306

Delta R.T. 0.00 min

Lab File: VN058799.D

Acq: 16 Oct 2019 14:20

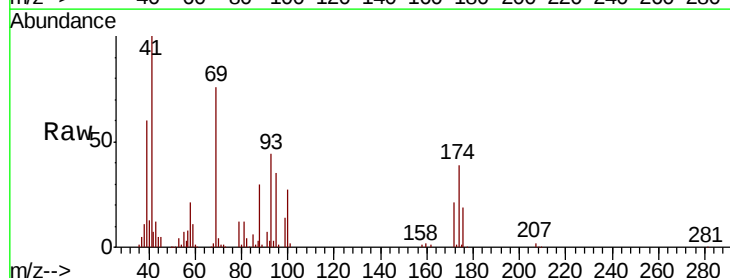
Tgt Ion: 41 Resp: 101973

Ion Ratio Lower Upper

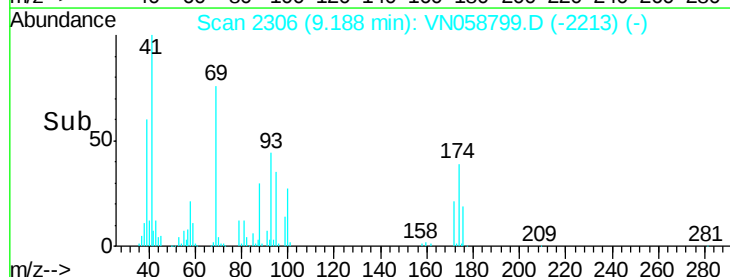
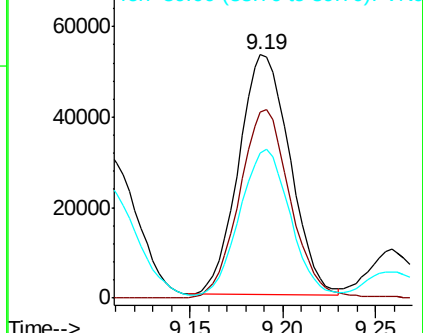
41 100

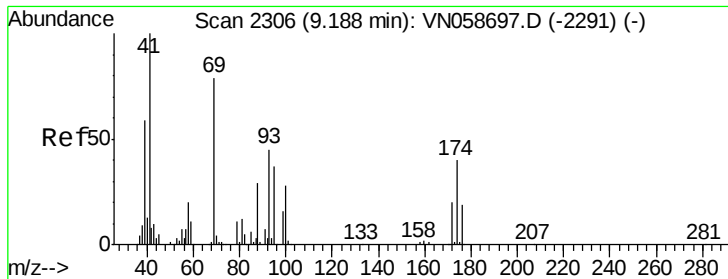
69 78.2 63.4 95.2

39 61.3 48.9 73.3



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 39.00 (38.70 to 39.70): VNO

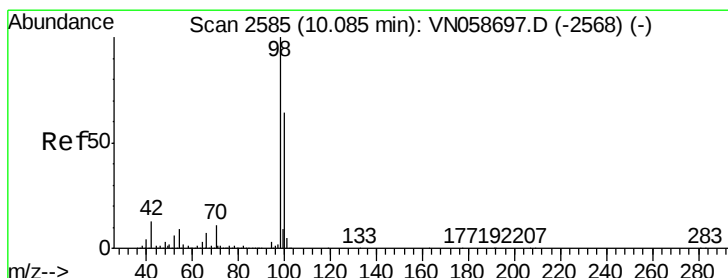
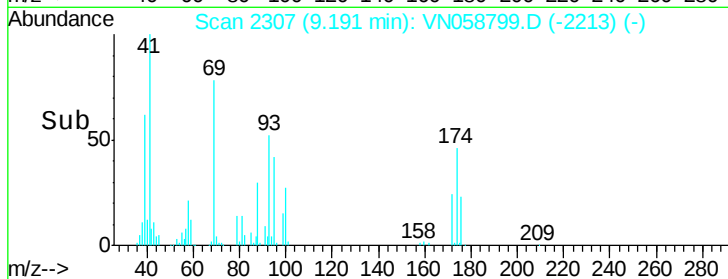
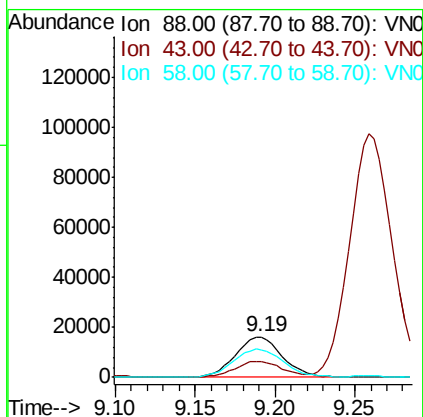
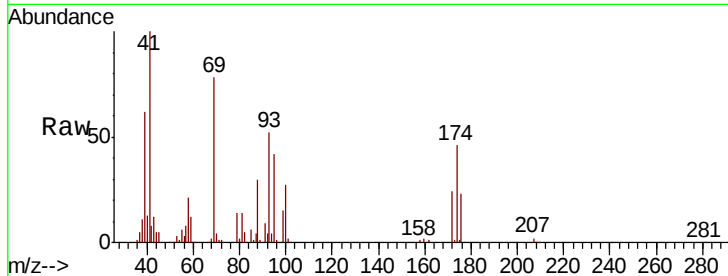




#49
1,4-Dioxane
Concen: 431.655 ug/l
RT: 9.19 min Scan# 2307
Delta R.T. 0.00 min
Lab File: VN058799.D
Acq: 16 Oct 2019 14:20

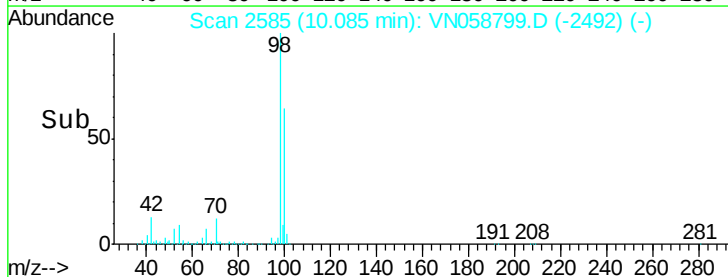
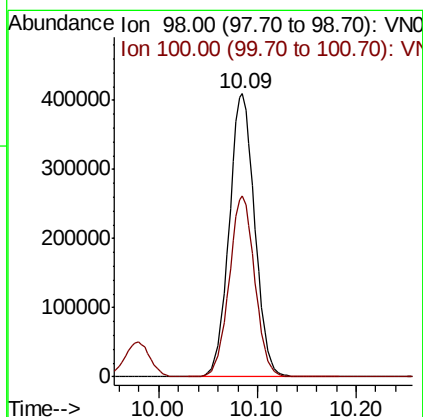
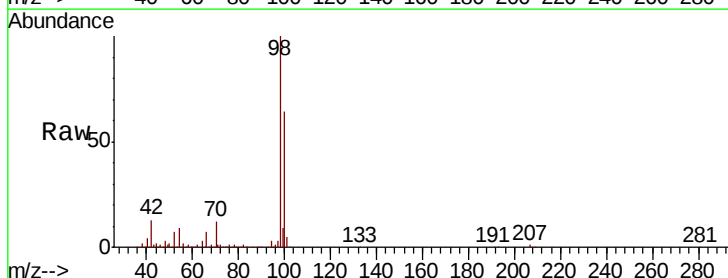
Instrument :
MSVOA_N
ClientSampleId :
VN1016WBSD01

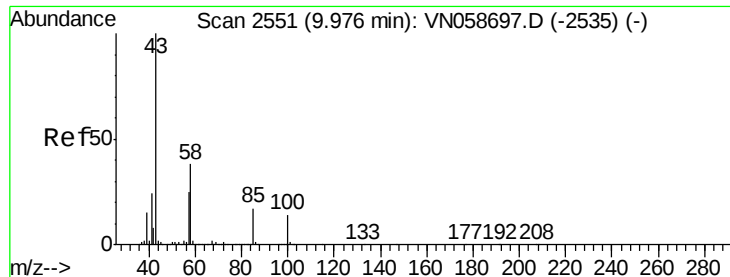
Tot Ion: 88 Resp: 32412
Ion Ratio Lower Upper
88 100
43 40.0 28.6 43.0
58 75.2 57.2 85.8



#50
Toluene-d8
Concen: 48.709 ug/l
RT: 10.09 min Scan# 2585
Delta R.T. 0.00 min
Lab File: VN058799.D
Acq: 16 Oct 2019 14:20

Tgt Ion: 98 Resp: 739552
Ion Ratio Lower Upper
98 100
100 63.8 51.1 76.7





#51

4-Methyl-2-Pentanone

Concen: 114.759 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN058799.D

Acq: 16 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

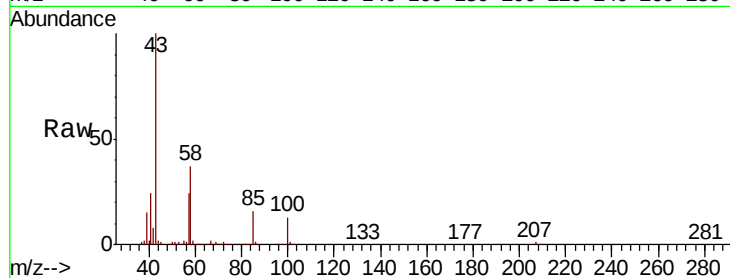
VN1016WBSD01

Tot Ion: 43 Resp: 690100

Ion Ratio Lower Upper

43 100

58 36.8 30.3 45.5



Abundance Ion 43.00 (42.70 to 43.70): VN058697.D (-2535) (-)

Ion 58.00 (57.70 to 58.70): VN058697.D (-2535) (-)

9.98

400000

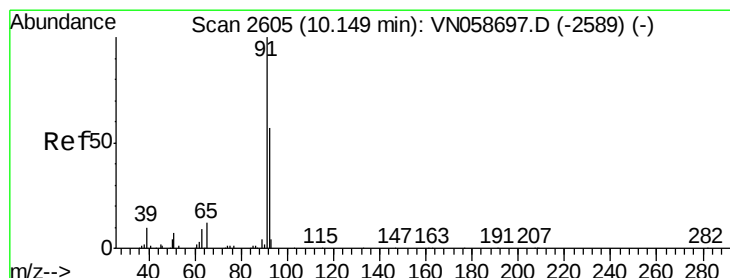
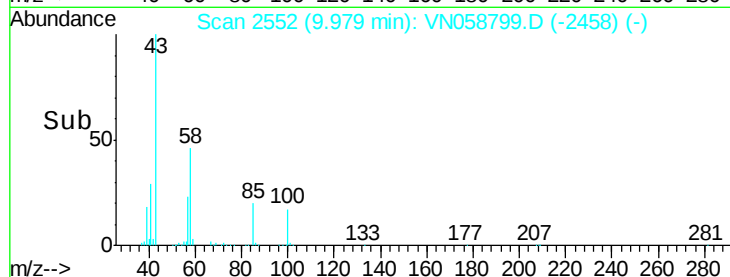
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 20.700 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. 0.00 min

Lab File: VN058799.D

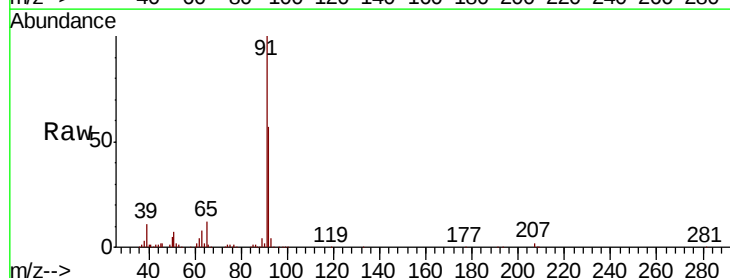
Acq: 16 Oct 2019 14:20

Tgt Ion: 92 Resp: 225987

Ion Ratio Lower Upper

92 100

91 176.1 139.1 208.7



Abundance Ion 92.00 (91.70 to 92.70): VN058697.D (-2589) (-)

Ion 91.00 (90.70 to 91.70): VN058697.D (-2589) (-)

250000

200000

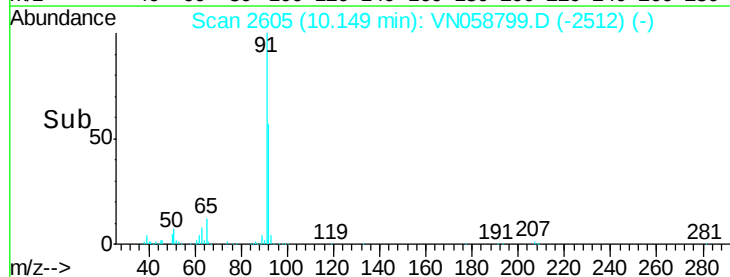
150000

100000

50000

0

Time-->





#53

t-1,3-Dichloropropene

Concen: 20.765 ug/l

RT: 10.38 min Scan# 2676

Delta R.T. 0.00 min

Lab File: VN058799.D

Acq: 16 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

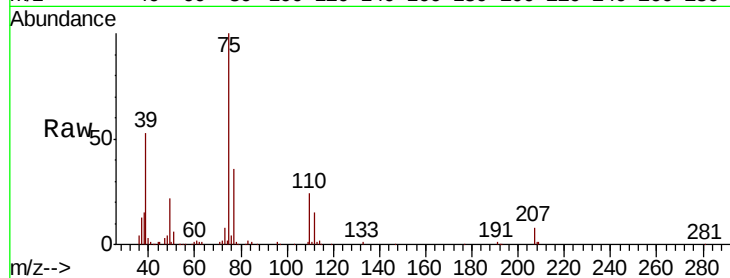
VN1016WBSD01

Tot Ion: 75 Resp: 146923

Ion Ratio Lower Upper

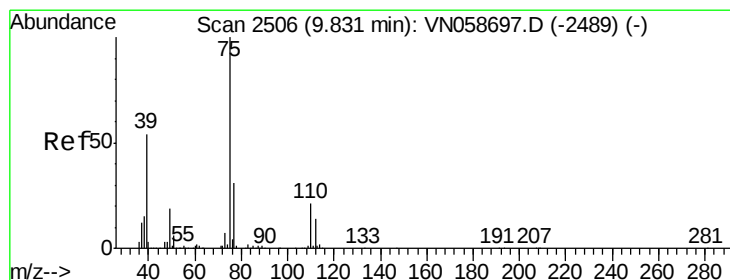
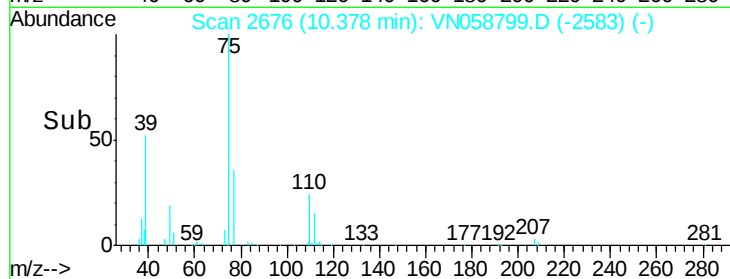
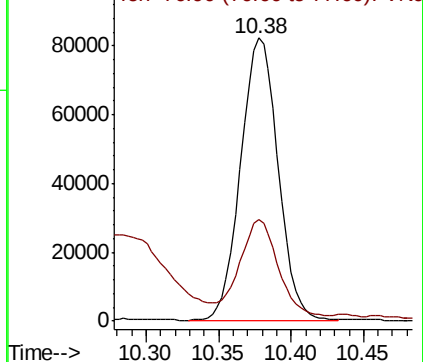
75 100

77 33.7 26.2 39.4



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: 20.532 ug/l

RT: 9.83 min Scan# 2506

Delta R.T. 0.00 min

Lab File: VN058799.D

Acq: 16 Oct 2019 14:20

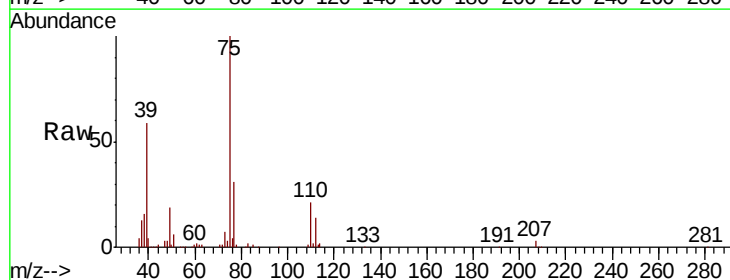
Tgt Ion: 75 Resp: 154245

Ion Ratio Lower Upper

75 100

77 31.4 24.4 36.6

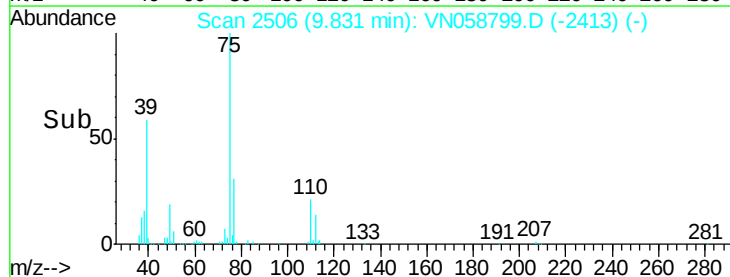
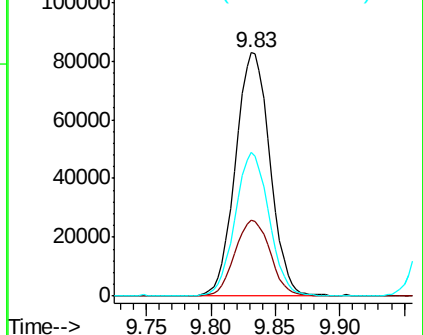
39 58.9 43.1 64.7

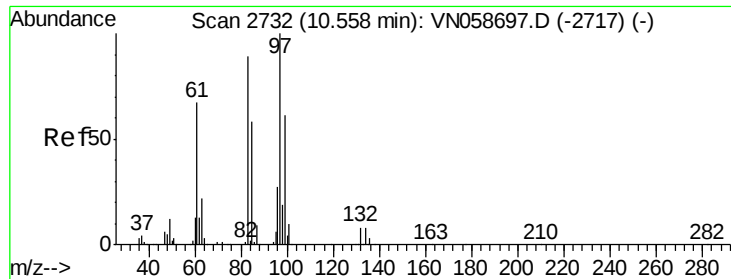


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#55

1,1,2-Trichloroethane

Concen: 20.412 ug/l

RT: 10.56 min Scan# 2732

Delta R.T. 0.00 min

Lab File: VN058799.D

Acq: 16 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

VN1016WBSD01

Tot Ion: 97 Resp: 91208

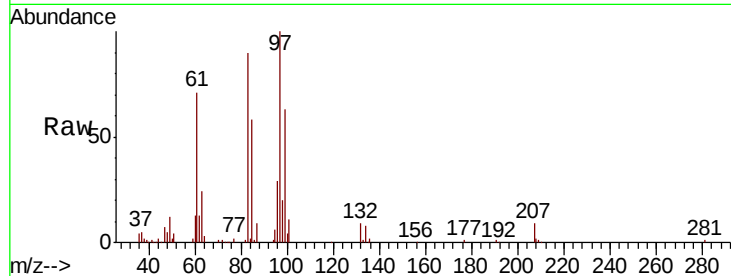
Ion Ratio Lower Upper

97 100

83 90.3 71.2 106.8

85 58.4 46.7 70.1

99 63.3 49.0 73.6



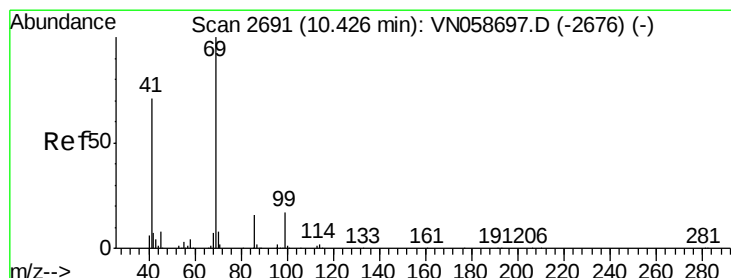
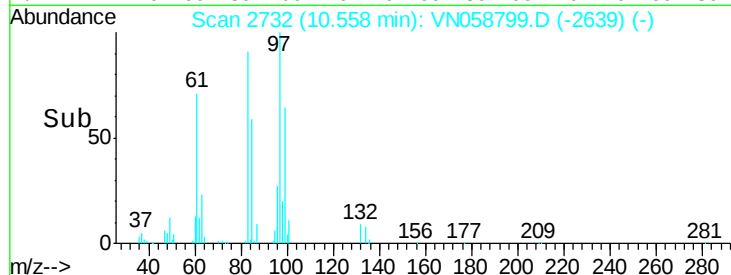
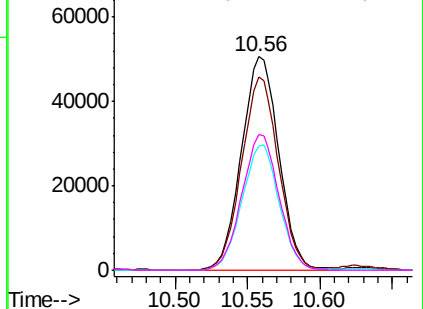
Abundance

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: 20.989 ug/l

RT: 10.43 min Scan# 2691

Delta R.T. 0.00 min

Lab File: VN058799.D

Acq: 16 Oct 2019 14:20

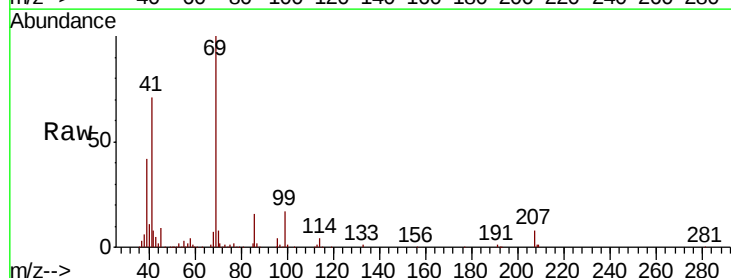
Tgt Ion: 69 Resp: 137012

Ion Ratio Lower Upper

69 100

41 70.6 56.8 85.2

39 40.8 32.5 48.7

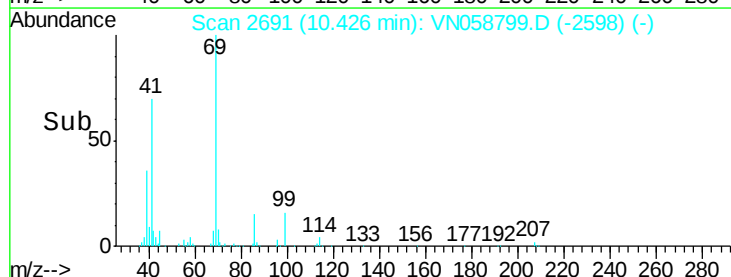
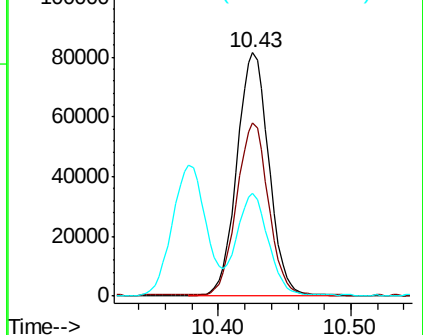


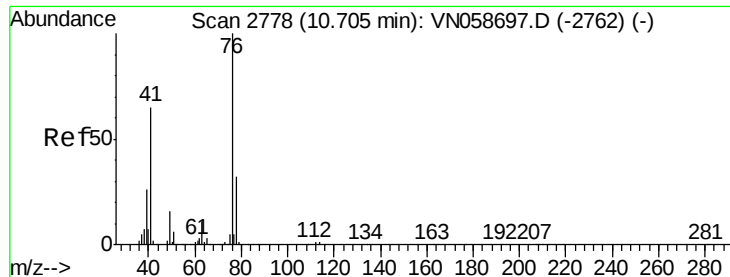
Abundance

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: 20.933 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. 0.00 min

Lab File: VN058799.D

Acq: 16 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

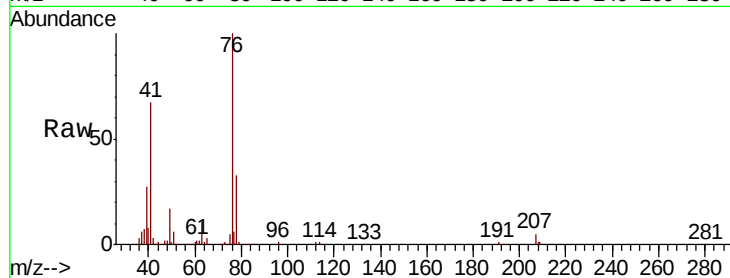
VN1016WBSD01

Tot Ion: 76 Resp: 159385

Ion Ratio Lower Upper

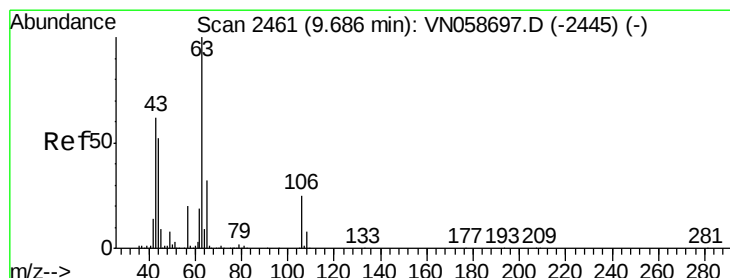
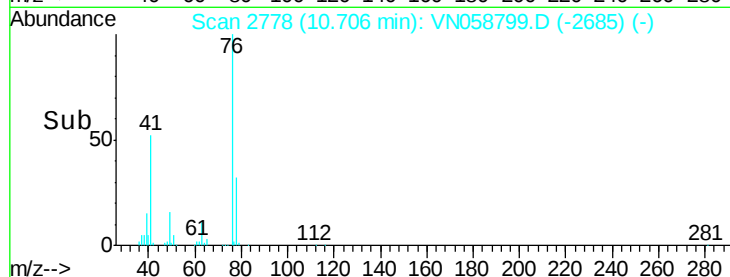
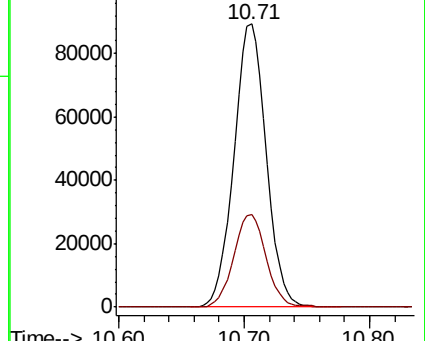
76 100

78 32.9 25.9 38.9



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: 102.975 ug/l

RT: 9.69 min Scan# 2461

Delta R.T. 0.00 min

Lab File: VN058799.D

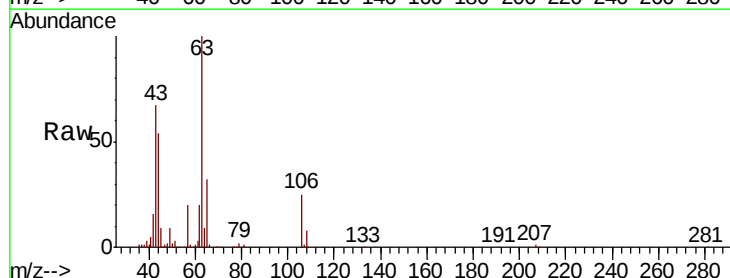
Acq: 16 Oct 2019 14:20

Tgt Ion: 63 Resp: 323949

Ion Ratio Lower Upper

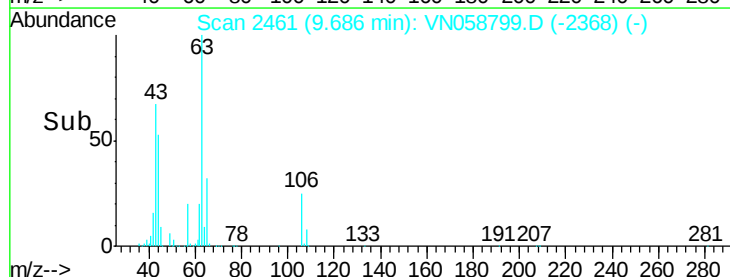
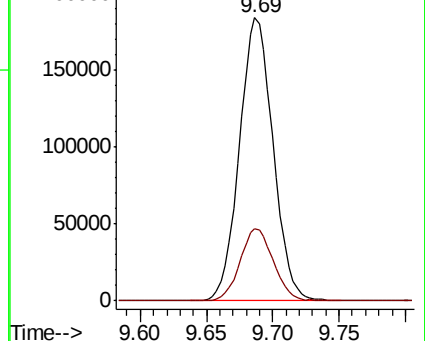
63 100

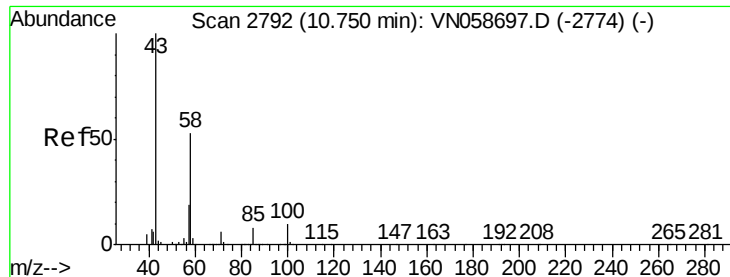
106 25.3 20.0 30.0



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

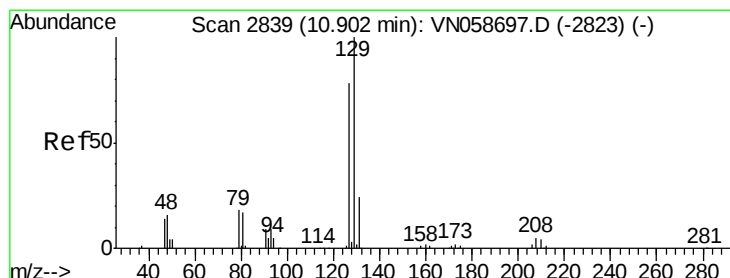
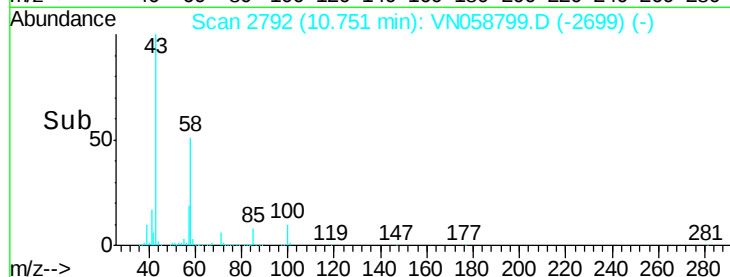
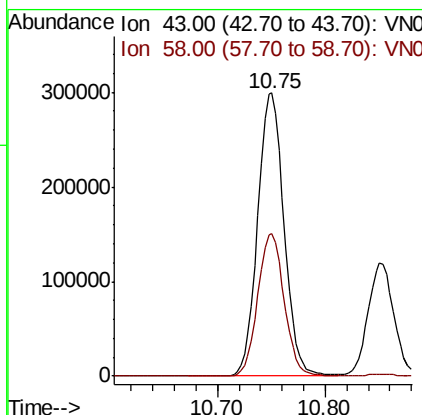
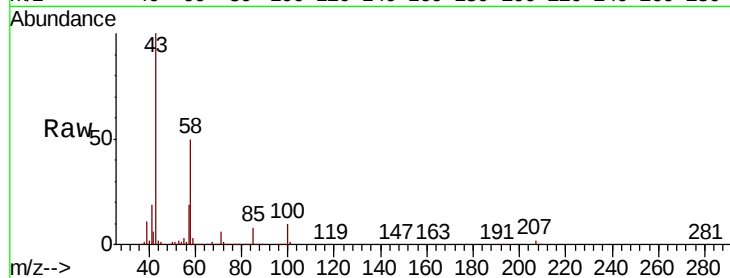




#59
2-Hexanone
Concen: 109.058 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN058799.D
Acq: 16 Oct 2019 14:20

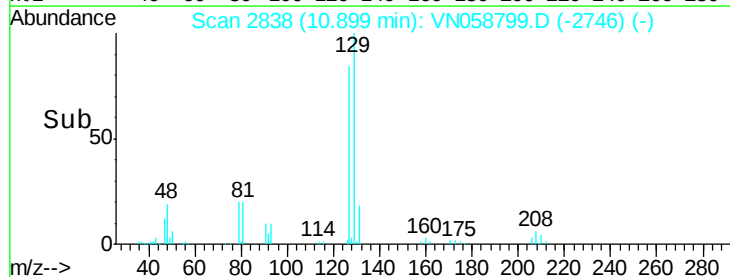
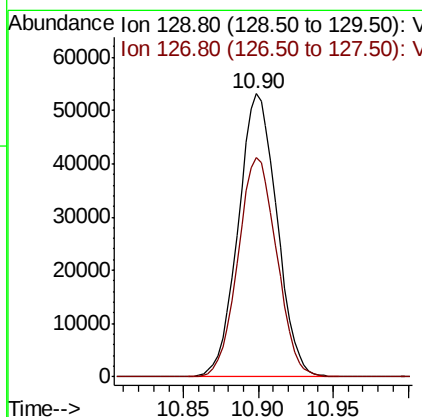
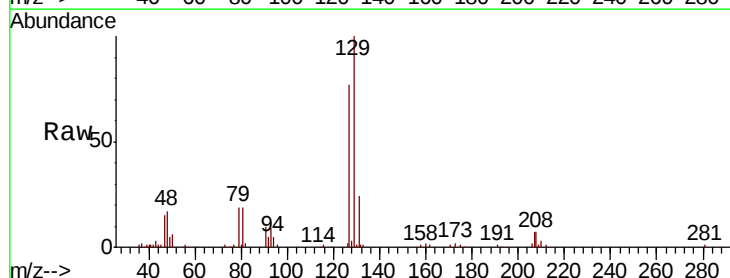
Instrument :
MSVOA_N
ClientSampleId :
VN1016WBSD01

Tot Ion: 43 Resp: 506815
Ion Ratio Lower Upper
43 100
58 50.6 26.1 78.3



#60
Dibromochloromethane
Concen: 20.736 ug/l
RT: 10.90 min Scan# 2838
Delta R.T. -0.00 min
Lab File: VN058799.D
Acq: 16 Oct 2019 14:20

Tgt Ion: 129 Resp: 95577
Ion Ratio Lower Upper
129 100
127 77.4 38.5 115.3

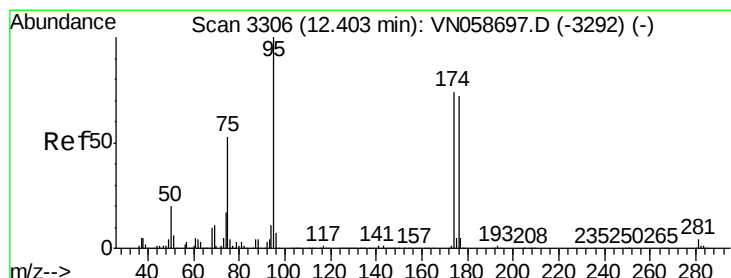
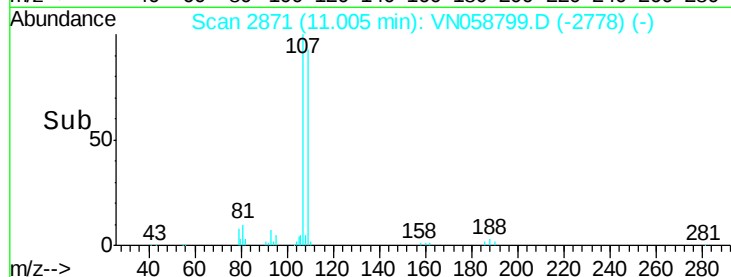
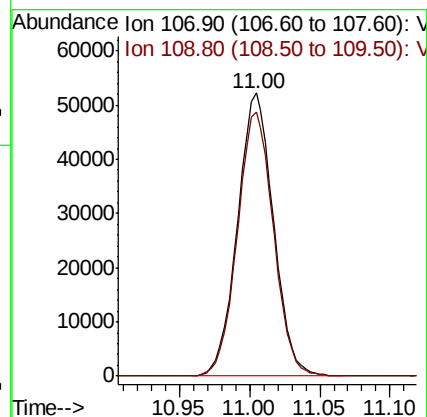
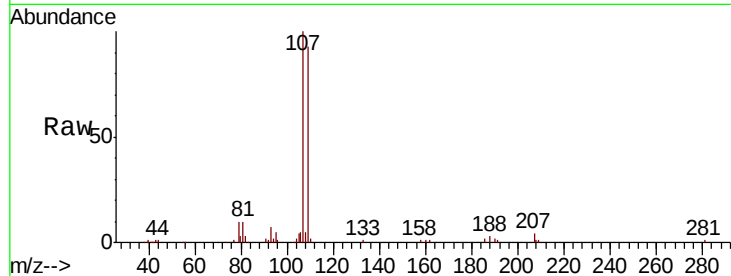




#61
 1,2-Dibromoethane
 Concen: 20.781 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. 0.00 min
 Lab File: VN058799.D
 Acq: 16 Oct 2019 14:20

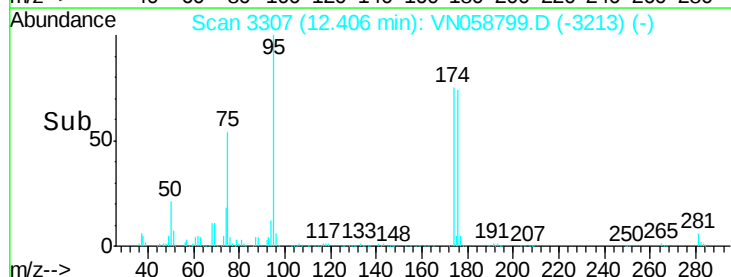
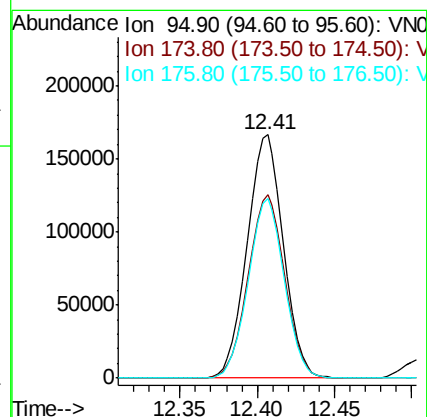
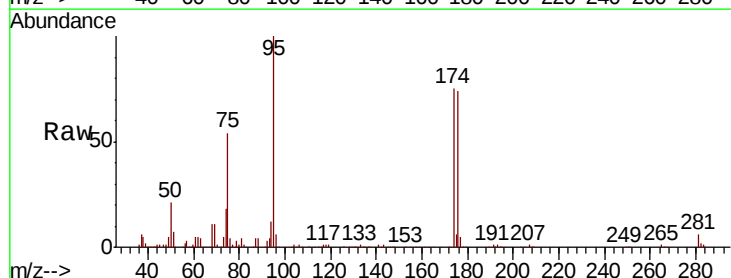
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1016WBSD01

Tot Ion: 107 Resp: 93025
 Ion Ratio Lower Upper
 107 100
 109 93.8 75.4 113.0



#62
 4-Bromofluorobenzene
 Concen: 47.328 ug/l
 RT: 12.41 min Scan# 3307
 Delta R.T. 0.00 min
 Lab File: VN058799.D
 Acq: 16 Oct 2019 14:20

Tgt Ion: 95 Resp: 272002
 Ion Ratio Lower Upper
 95 100
 174 76.0 0.0 150.4
 176 73.4 0.0 146.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN058799.D

Acq: 16 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

VN1016WBSD01

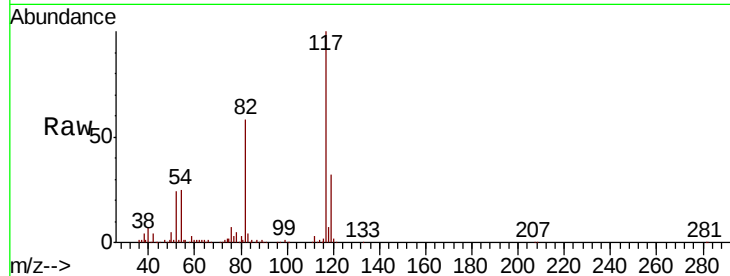
Tot Ion:117 Resp: 564581

Ion Ratio Lower Upper

117 100

82 58.1 47.0 70.4

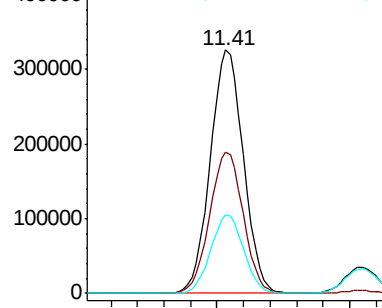
119 32.1 25.4 38.2



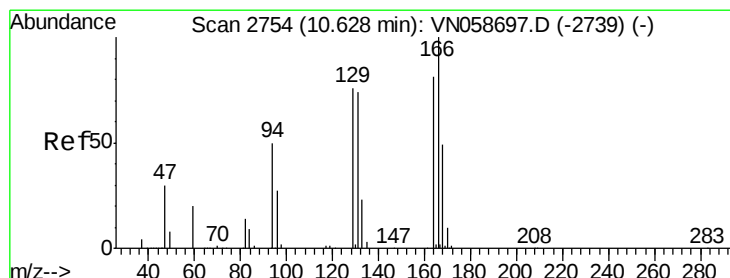
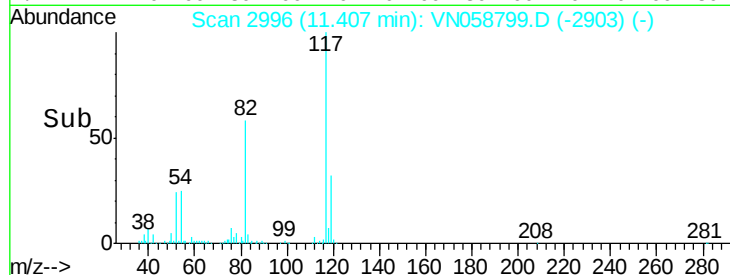
Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): V



Time-->



#64

Tetrachloroethene

Concen: 20.507 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. 0.00 min

Lab File: VN058799.D

Acq: 16 Oct 2019 14:20

Tgt Ion:164 Resp: 81027

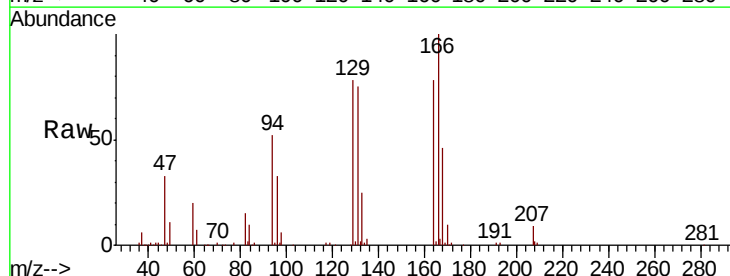
Ion Ratio Lower Upper

164 100

166 128.0 99.3 148.9

129 100.4 75.2 112.8

131 96.3 73.0 109.4

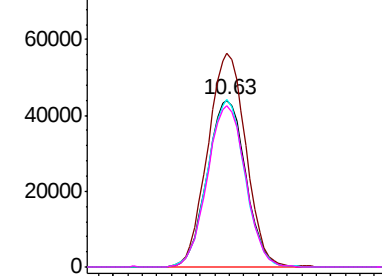


Abundance Ion 163.80 (163.50 to 164.50): V

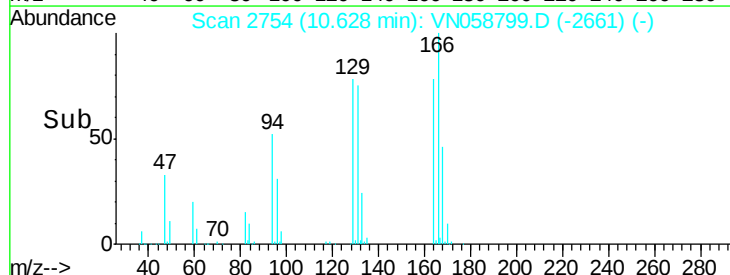
Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



Time-->





#65

Chlorobenzene

Concen: 20.869 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN058799.D

Acq: 16 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

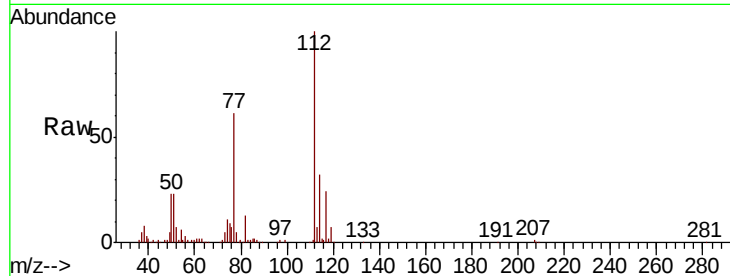
VN1016WBSD01

Tot Ion:112 Resp: 239273

Ion Ratio Lower Upper

112 100

114 31.7 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

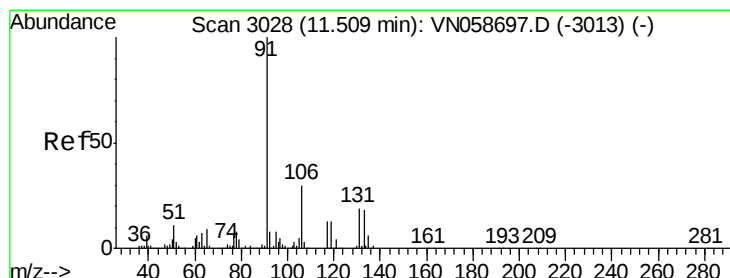
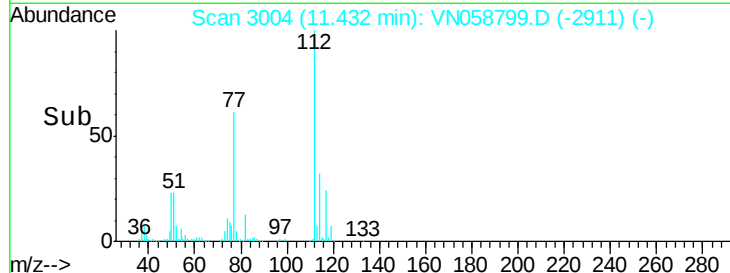
150000

100000

50000

0

Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 21.124 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN058799.D

Acq: 16 Oct 2019 14:20

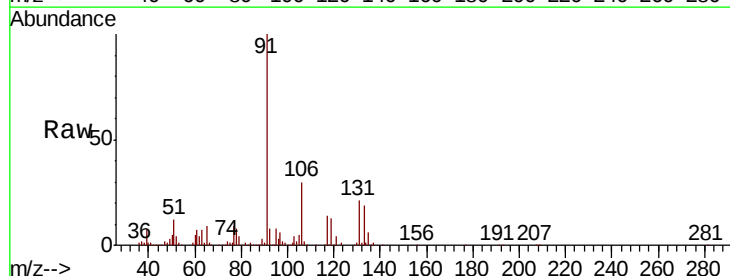
Tgt Ion:131 Resp: 89560

Ion Ratio Lower Upper

131 100

133 96.3 47.6 142.9

119 65.5 33.0 98.9



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

80000

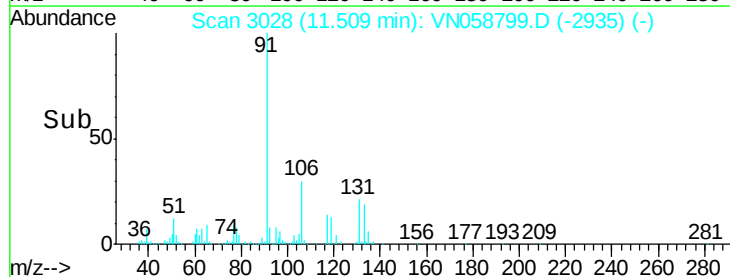
60000

40000

20000

0

Time-->





#67

Ethyl Benzene

Concen: 21.126 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. 0.00 min

Lab File: VN058799.D

Acq: 16 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

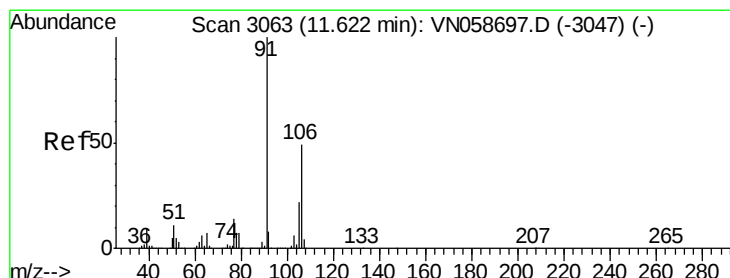
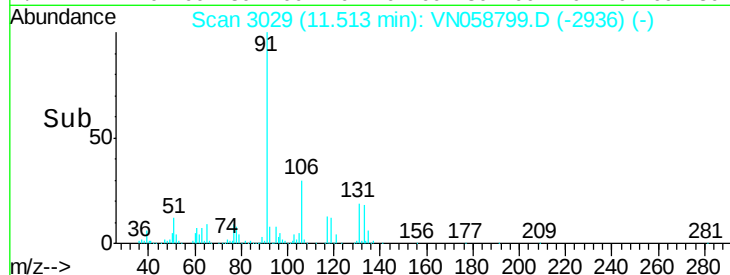
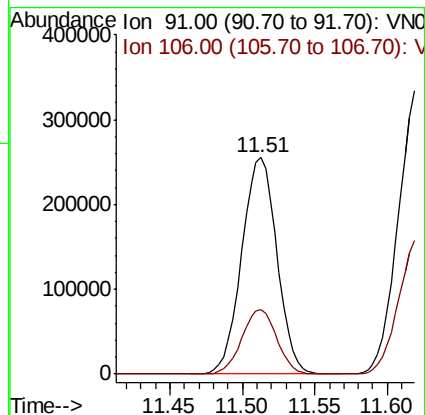
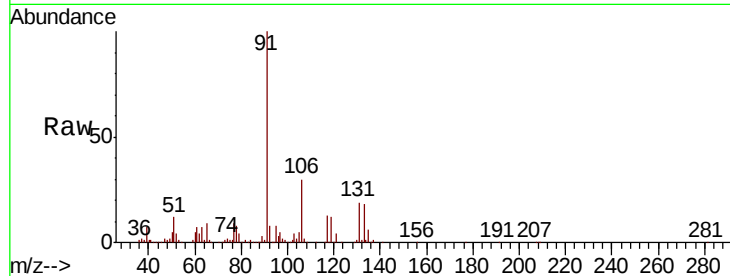
VN1016WBSD01

Tot Ion: 91 Resp: 431764

Ion Ratio Lower Upper

91 100

106 29.9 24.1 36.1



#68

m/p-Xylenes

Concen: 41.362 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN058799.D

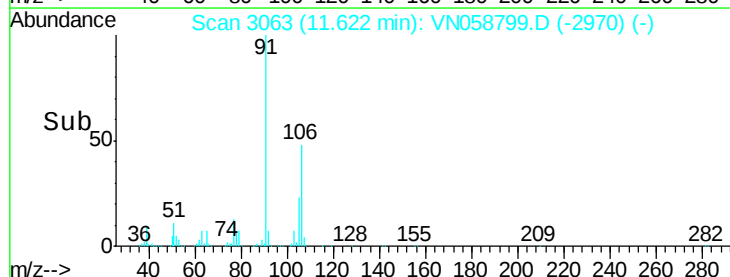
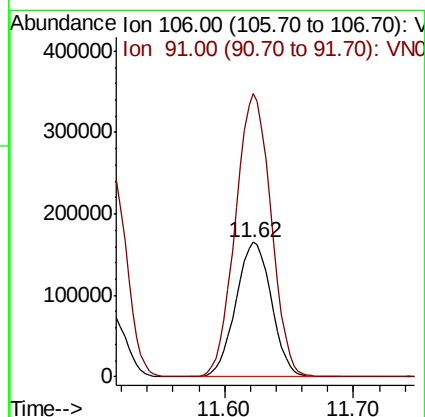
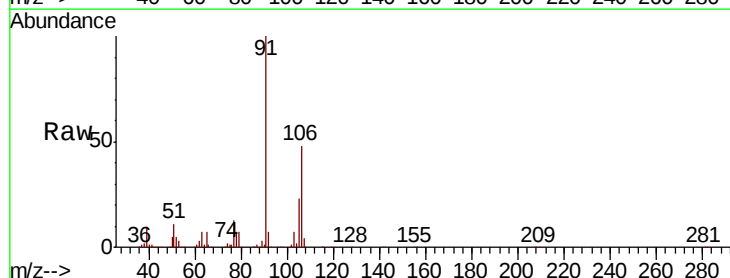
Acq: 16 Oct 2019 14:20

Tgt Ion: 106 Resp: 317243

Ion Ratio Lower Upper

106 100

91 210.3 165.7 248.5

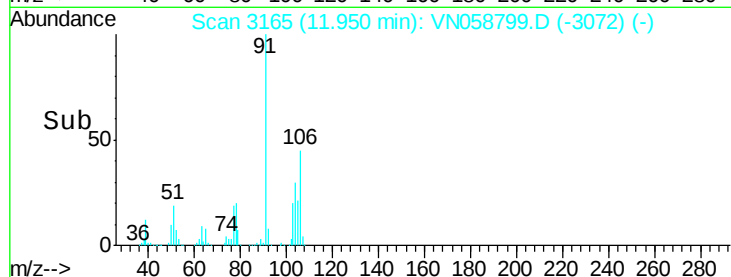
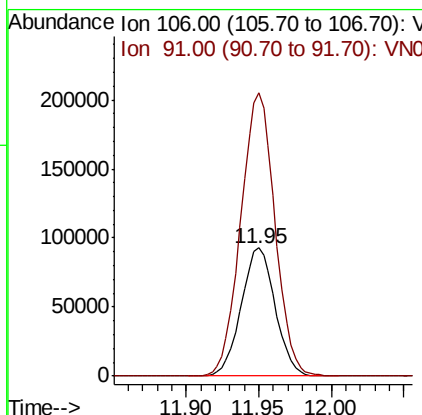
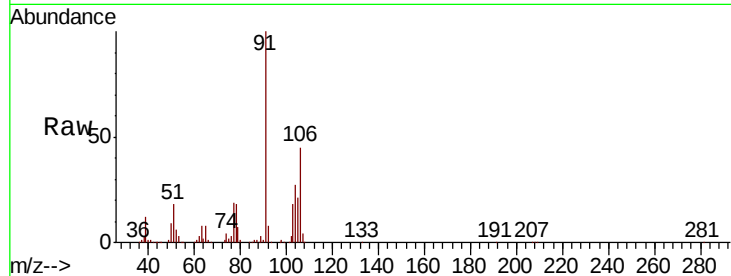




#69
o-Xylene
Concen: 20.401 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN058799.D
Acq: 16 Oct 2019 14:20

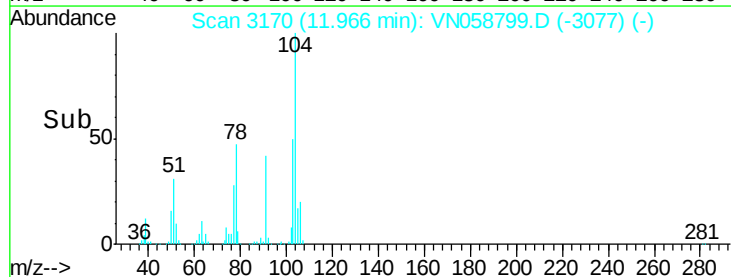
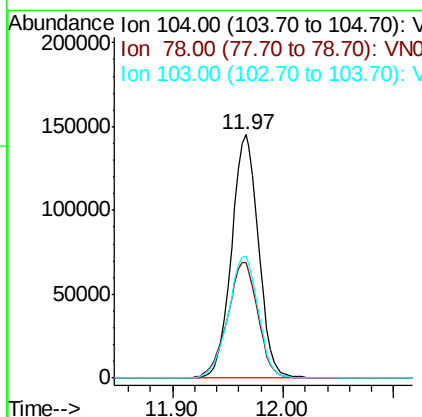
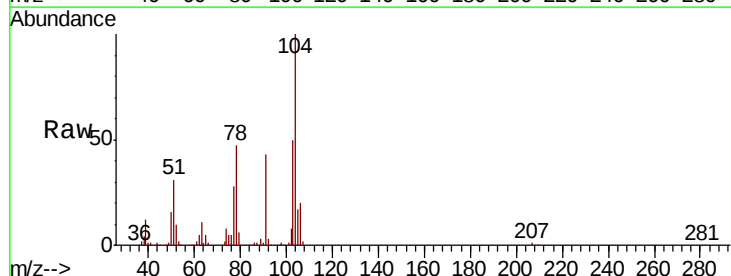
Instrument :
MSVOA_N
ClientSampleId :
VN1016WBSD01

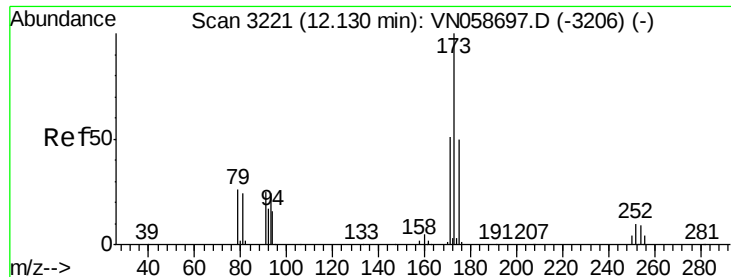
Tot Ion:106 Resp: 151389
Ion Ratio Lower Upper
106 100
91 221.6 110.9 332.9



#70
Styrene
Concen: 20.228 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. 0.00 min
Lab File: VN058799.D
Acq: 16 Oct 2019 14:20

Tgt Ion:104 Resp: 246024
Ion Ratio Lower Upper
104 100
78 53.8 42.2 63.2
103 55.7 43.7 65.5





#71

Bromoform

Concen: 21.328 ug/l

RT: 12.13 min Scan# 3221

Delta R.T. 0.00 min

Lab File: VN058799.D

Acq: 16 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

VN1016WBSD01

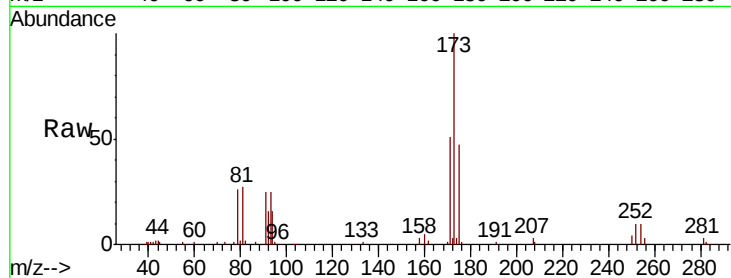
Tot Ion:173 Resp: 66278

Ion Ratio Lower Upper

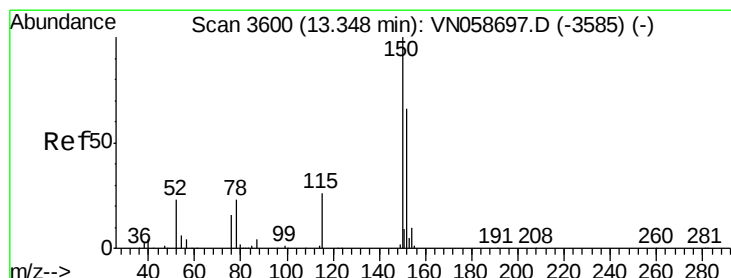
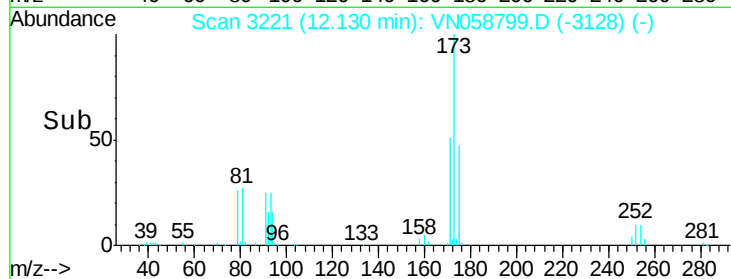
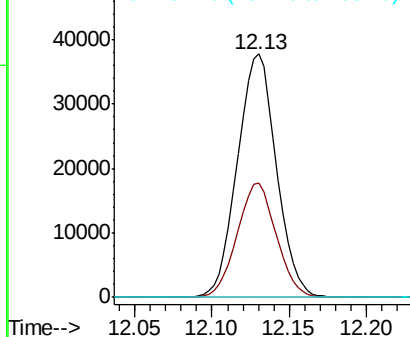
173 100

175 46.9 24.6 73.8

254 0.0 0.1 0.1#



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058799.D

Acq: 16 Oct 2019 14:20

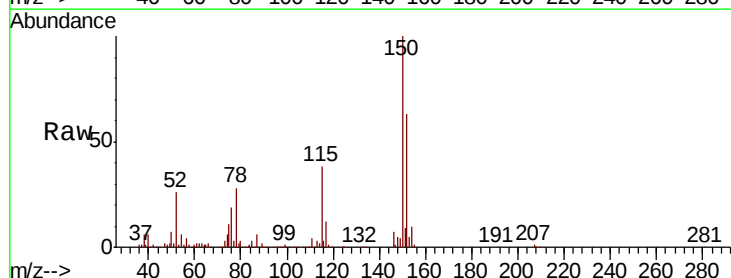
Tgt Ion:152 Resp: 267267

Ion Ratio Lower Upper

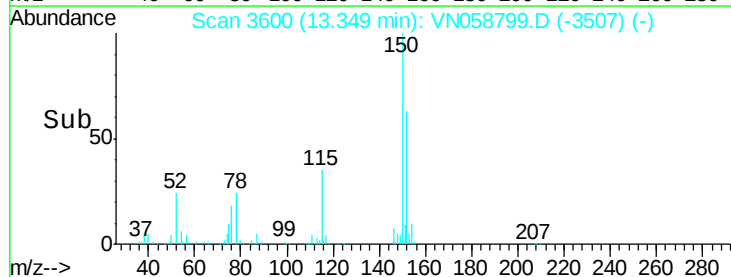
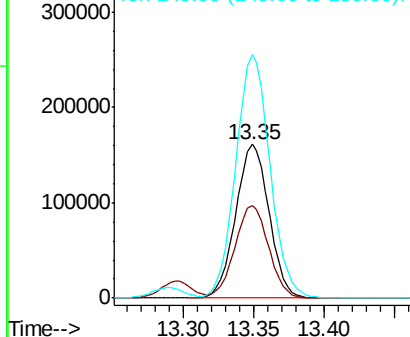
152 100

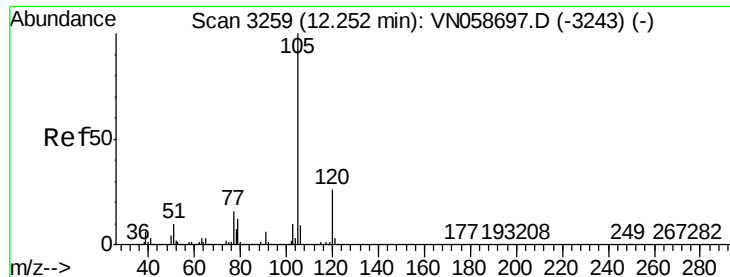
115 60.5 30.4 91.2

150 162.9 0.0 345.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 21.375 ug/l

RT: 12.25 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN058799.D

Acq: 16 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

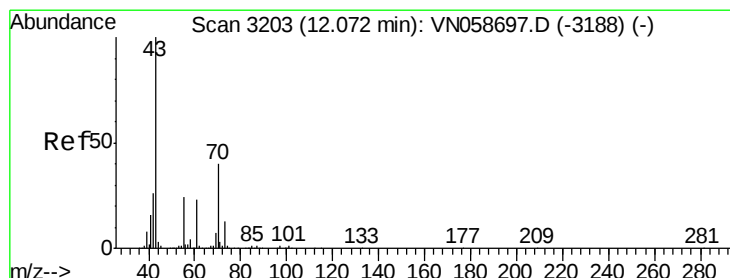
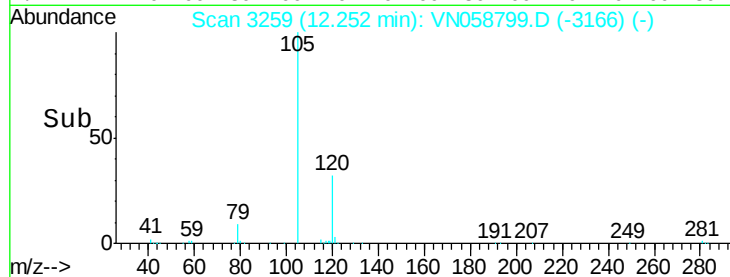
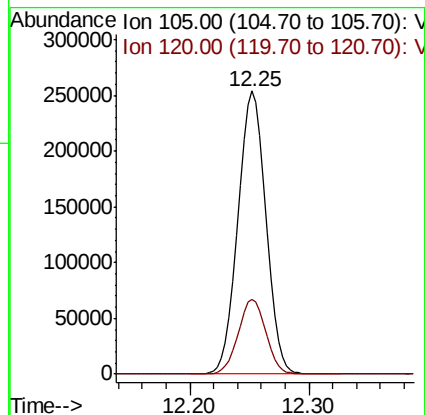
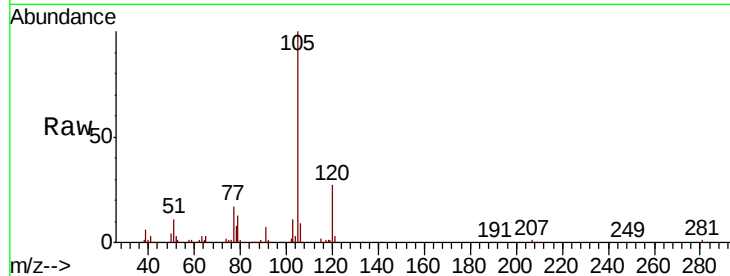
VN1016WBSD01

Tot Ion:105 Resp: 413746

Ion Ratio Lower Upper

105 100

120 26.0 13.1 39.1



#74

N-ethyl acetate

Concen: 21.109 ug/l

RT: 12.07 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VN058799.D

Acq: 16 Oct 2019 14:20

Tgt Ion: 43 Resp: 183515

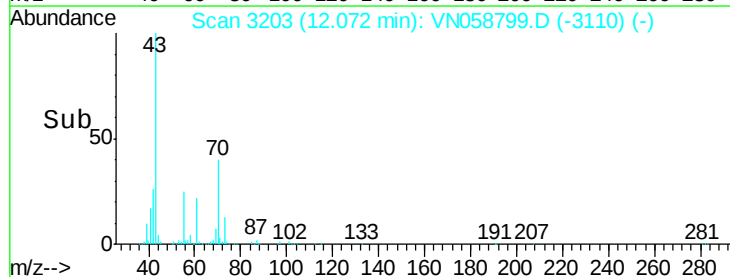
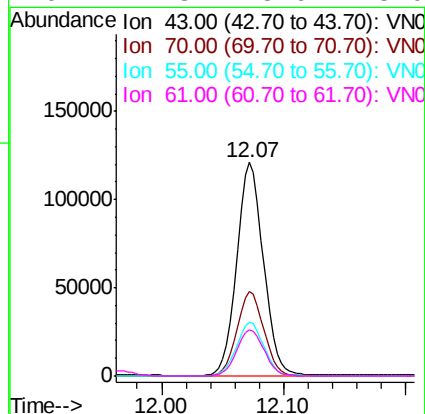
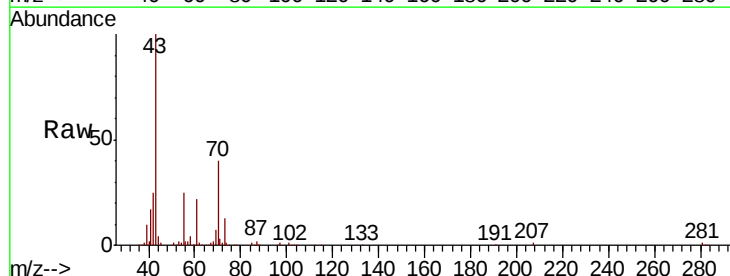
Ion Ratio Lower Upper

43 100

70 40.3 32.2 48.4

55 25.8 19.6 29.4

61 22.3 18.6 28.0





#75

1,1,2,2-Tetrachloroethane

Concen: 21.784 ug/l

RT: 12.51 min Scan# 3339

Delta R.T. 0.00 min

Lab File: VN058799.D

Acq: 16 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

VN1016WBSD01

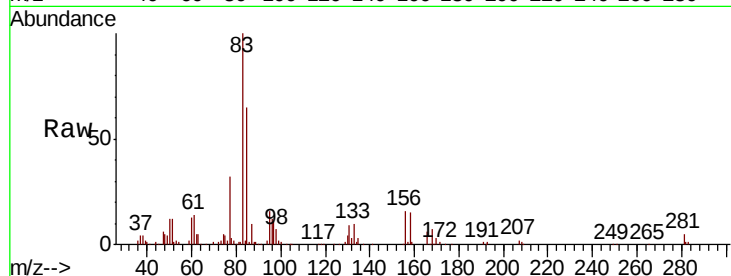
Tot Ion: 83 Resp: 138908

Ion Ratio Lower Upper

83 100

131 9.7 4.8 14.4

85 64.2 31.9 95.5



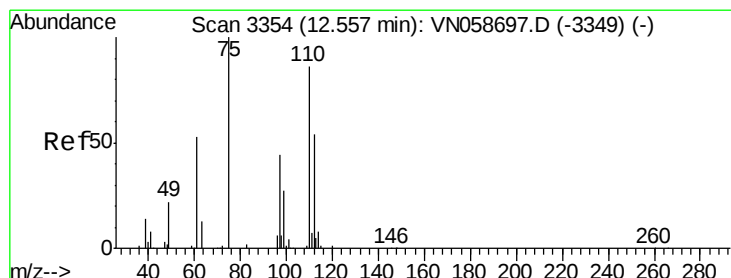
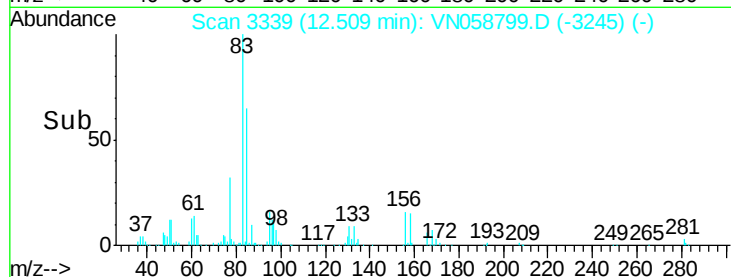
Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0

12.51

Time-->



#76

1,2,3-Trichloropropane

Concen: 31.493 ug/l

RT: 12.56 min Scan# 3354

Delta R.T. 0.00 min

Lab File: VN058799.D

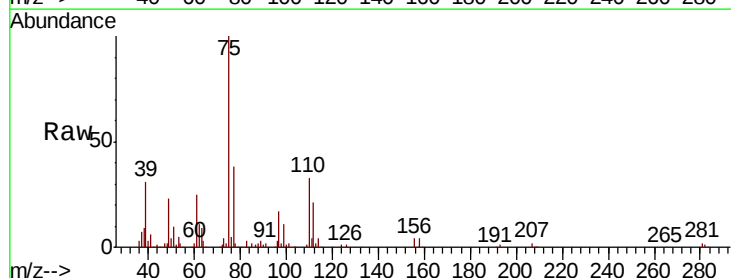
Acq: 16 Oct 2019 14:20

Tgt Ion: 75 Resp: 184649

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0

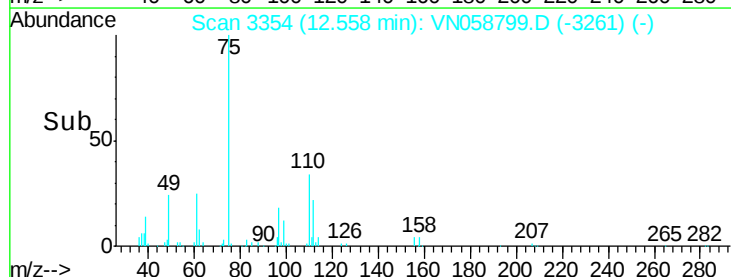


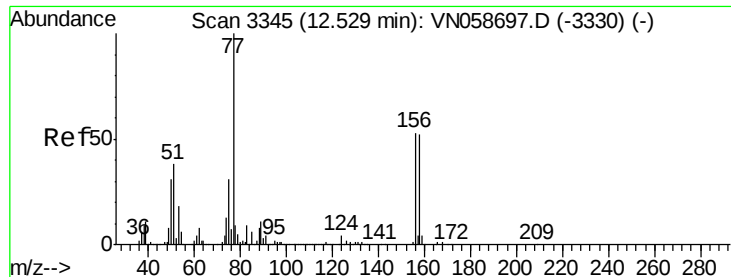
Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.56

Time-->





#77

Bromobenzene

Concen: 21.097 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. 0.00 min

Lab File: VN058799.D

Acq: 16 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampled :

VN1016WBSD01

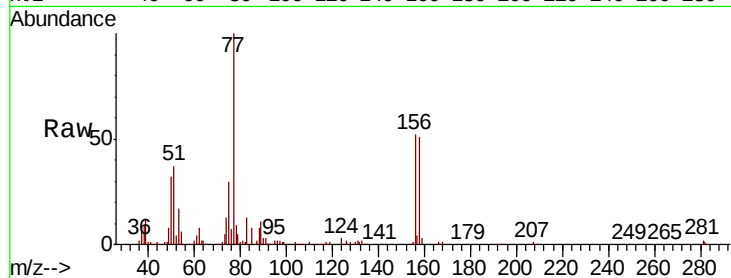
Tot Ion:156 Resp: 99328

Ion Ratio Lower Upper

156 100

77 233.5 115.8 347.3

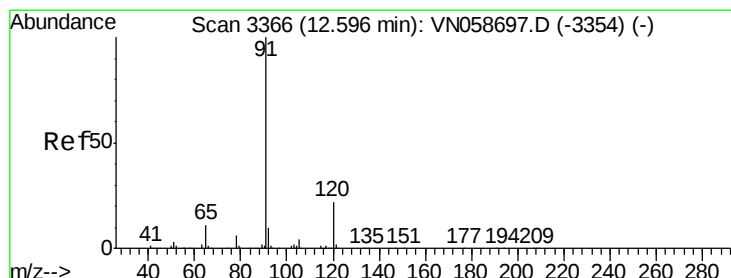
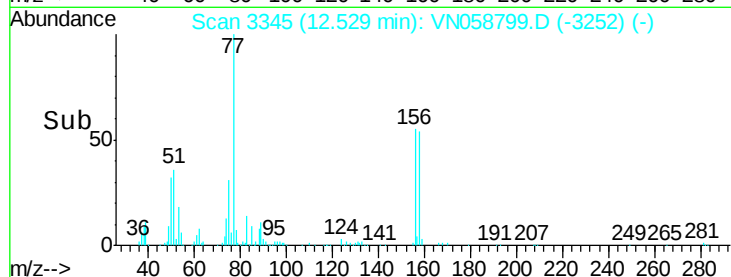
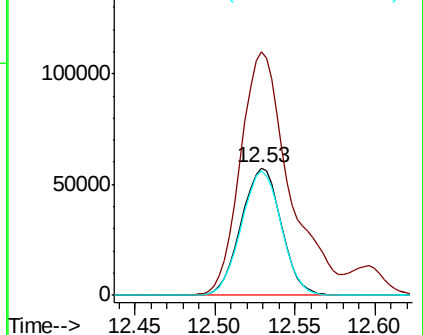
158 96.9 48.9 146.6



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 21.798 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. -0.00 min

Lab File: VN058799.D

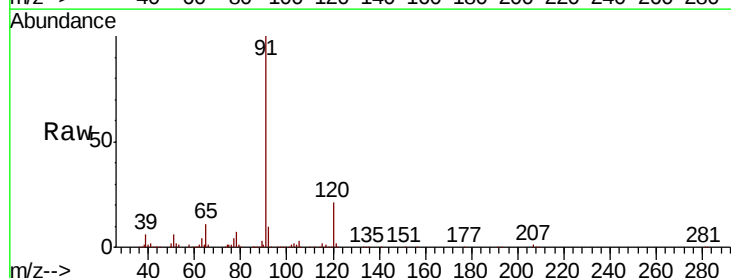
Acq: 16 Oct 2019 14:20

Tgt Ion: 91 Resp: 491642

Ion Ratio Lower Upper

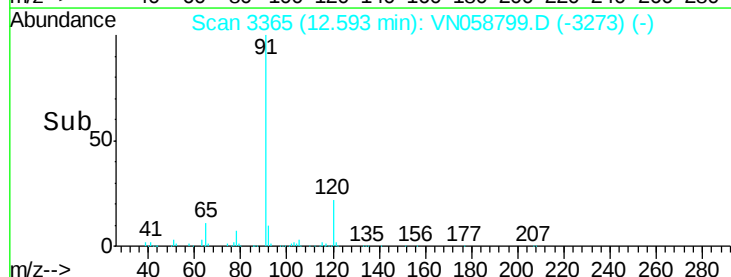
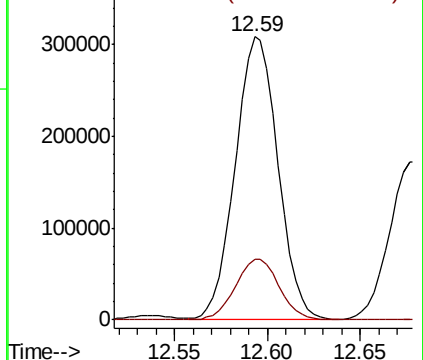
91 100

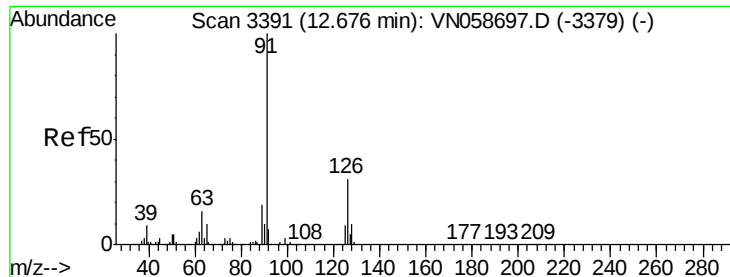
120 22.0 11.1 33.3



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V

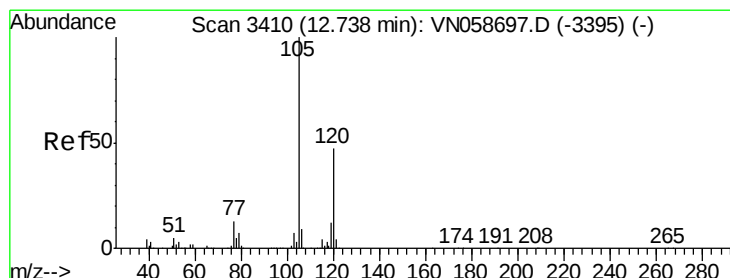
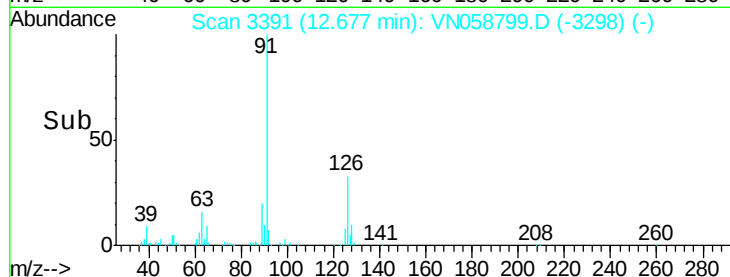
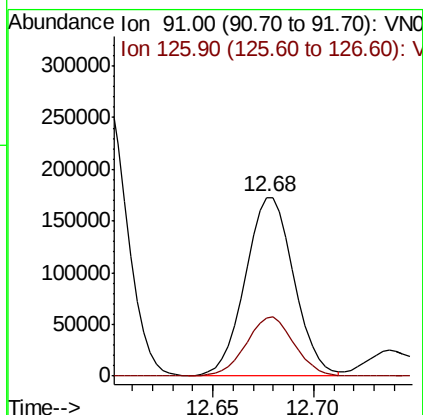
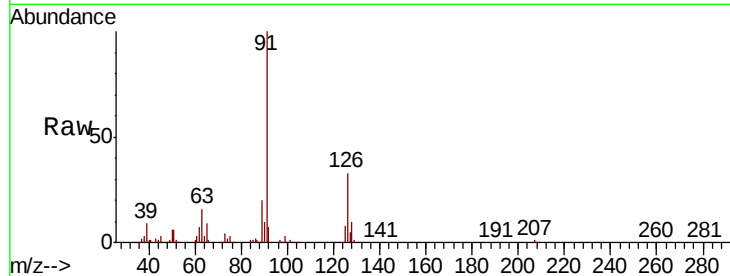




#79
2-Chlorotoluene
Concen: 20.741 ug/l
RT: 12.68 min Scan# 3391
Delta R.T. 0.00 min
Lab File: VN058799.D
Acq: 16 Oct 2019 14:20

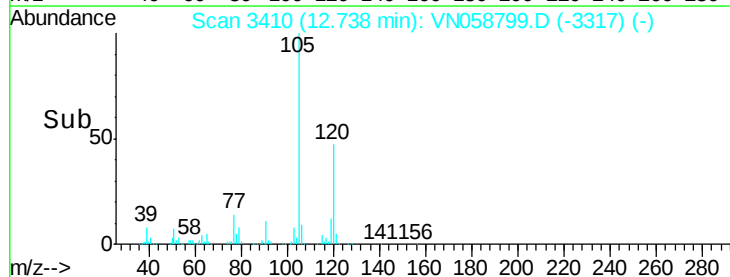
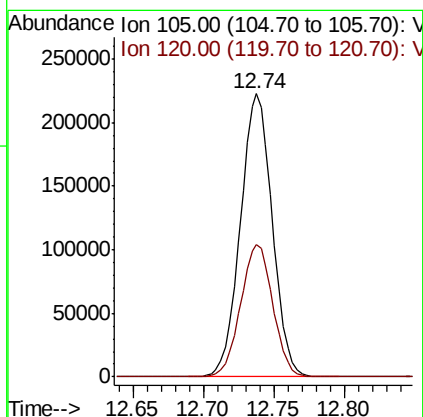
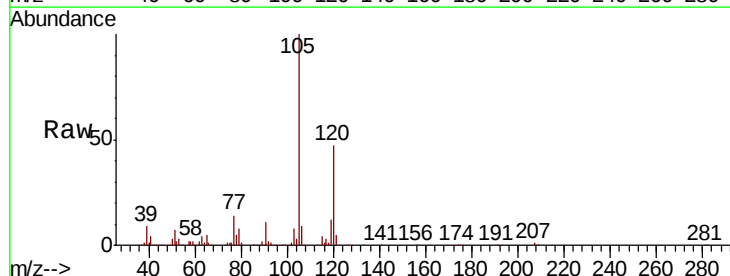
Instrument :
MSVOA_N
ClientSampleId :
VN1016WBSD01

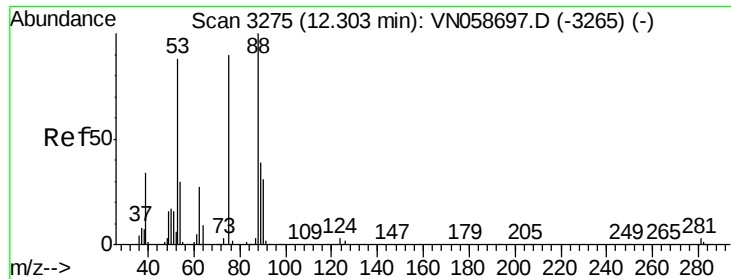
Tot Ion: 91 Resp: 290354
Ion Ratio Lower Upper
91 100
126 32.9 16.2 48.5



#80
1,3,5-Trimethylbenzene
Concen: 21.218 ug/l
RT: 12.74 min Scan# 3410
Delta R.T. 0.00 min
Lab File: VN058799.D
Acq: 16 Oct 2019 14:20

Tgt Ion: 105 Resp: 350627
Ion Ratio Lower Upper
105 100
120 47.5 23.4 70.2





#81

trans-1,4-Dichloro-2-butene

Concen: 20.558 ug/l

RT: 12.30 min Scan# 3275

Delta R.T. 0.00 min

Lab File: VN058799.D

Acq: 16 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

VN1016WBSD01

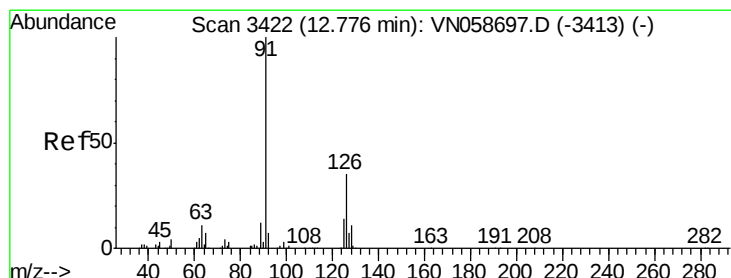
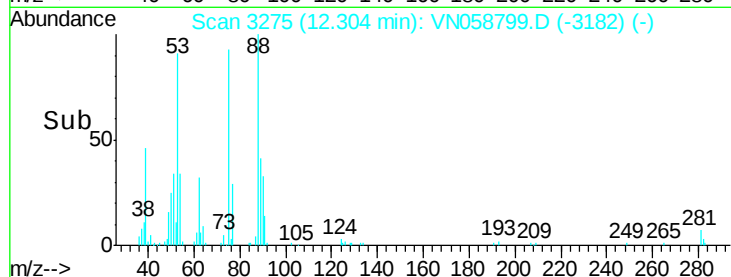
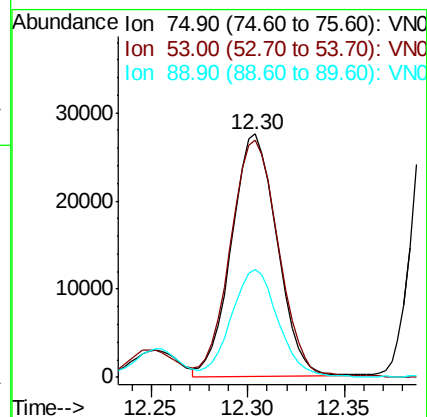
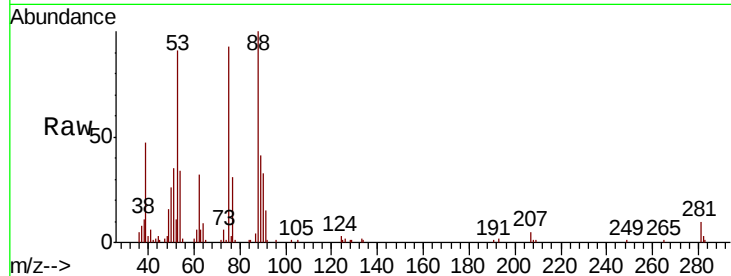
Tot Ion: 75 Resp: 44997

Ion Ratio Lower Upper

75 100

53 102.0 78.4 117.6

89 45.8 34.9 52.3



#82

4-Chlorotoluene

Concen: 20.939 ug/l

RT: 12.78 min Scan# 3422

Delta R.T. 0.00 min

Lab File: VN058799.D

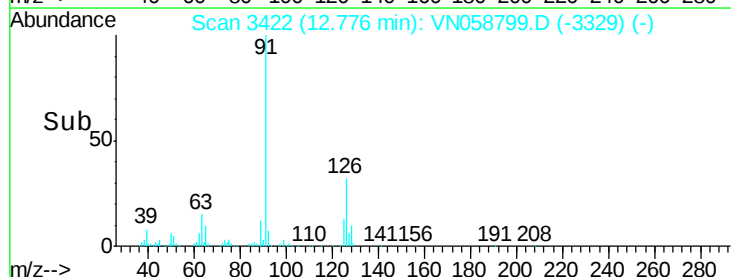
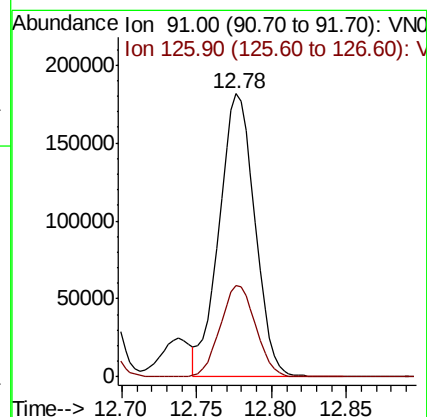
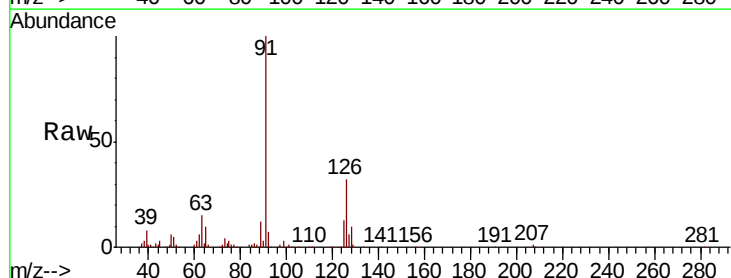
Acq: 16 Oct 2019 14:20

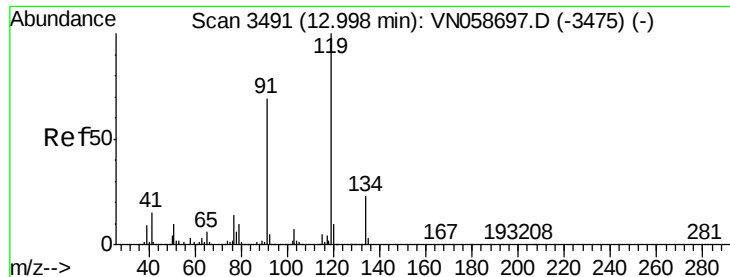
Tgt Ion: 91 Resp: 300800

Ion Ratio Lower Upper

91 100

126 32.2 15.9 47.6





#83

tert-Butylbenzene

Concen: 21.075 ug/l

RT: 13.00 min Scan# 3491

Delta R.T. 0.00 min

Lab File: VN058799.D

Acq: 16 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

VN1016WBSD01

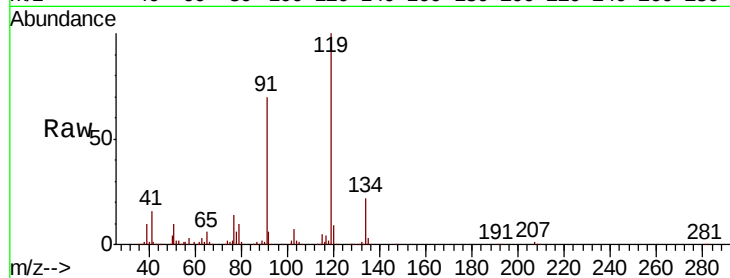
Tot Ion:119 Resp: 298356

Ion Ratio Lower Upper

119 100

91 68.2 33.8 101.3

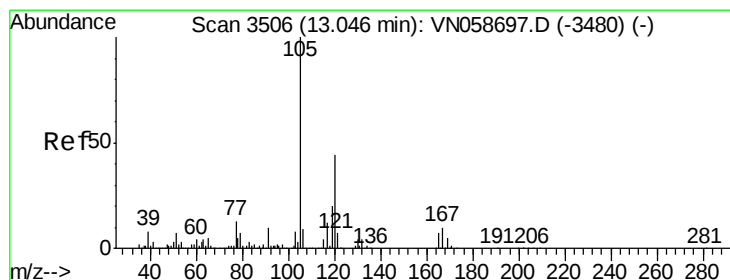
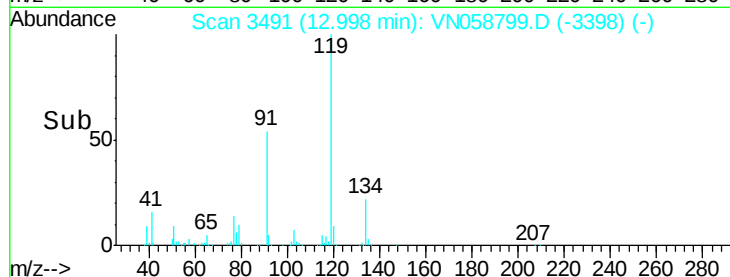
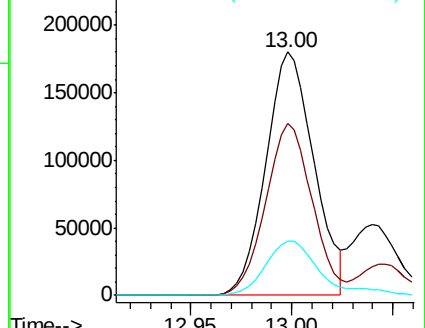
134 23.4 12.6 37.6



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VN

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 21.612 ug/l

RT: 13.05 min Scan# 3506

Delta R.T. 0.00 min

Lab File: VN058799.D

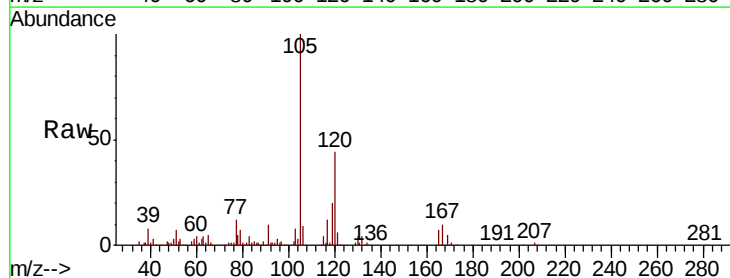
Acq: 16 Oct 2019 14:20

Tgt Ion:105 Resp: 354545

Ion Ratio Lower Upper

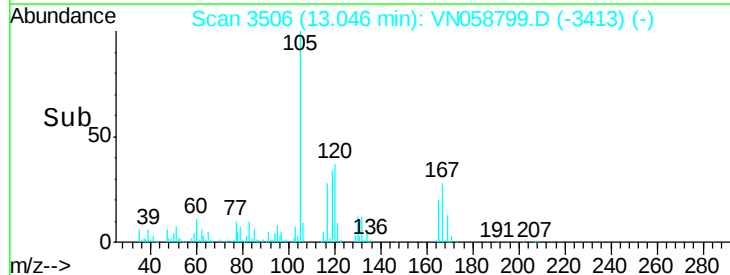
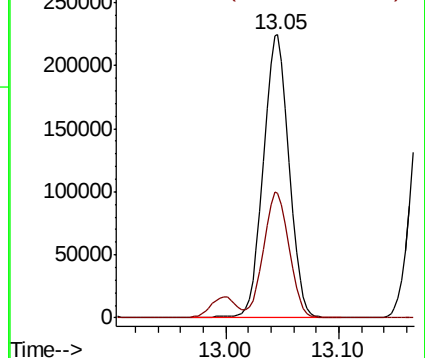
105 100

120 44.2 21.9 65.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 21.606 ug/l

RT: 13.18 min Scan# 3547

Delta R.T. 0.00 min

Lab File: VN058799.D

Acq: 16 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

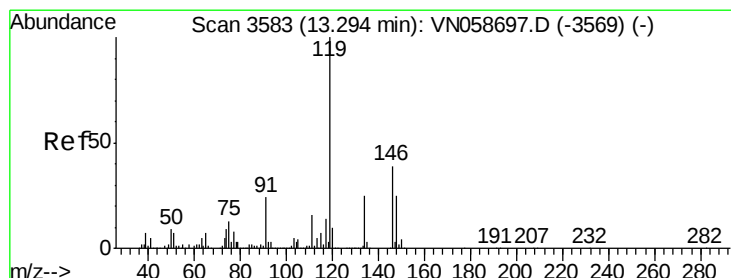
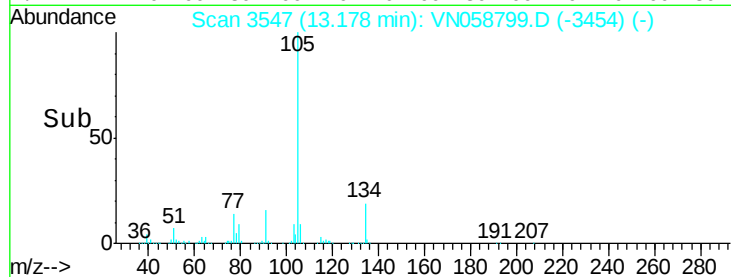
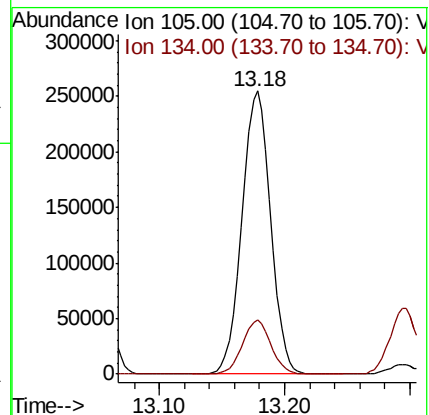
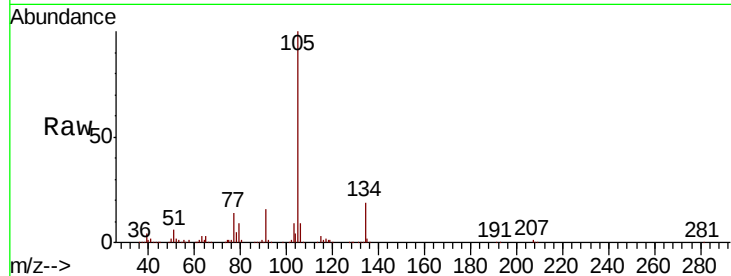
VN1016WBSD01

Tot Ion:105 Resp: 403040

Ion Ratio Lower Upper

105 100

134 19.1 9.7 29.1



#86

p-Isopropyltoluene

Concen: 20.989 ug/l

RT: 13.29 min Scan# 3583

Delta R.T. 0.00 min

Lab File: VN058799.D

Acq: 16 Oct 2019 14:20

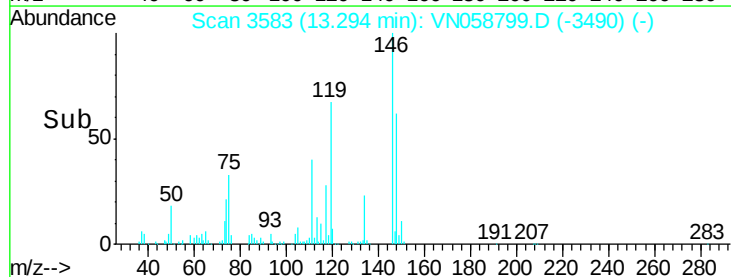
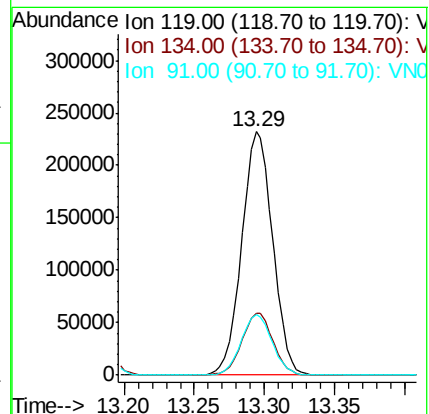
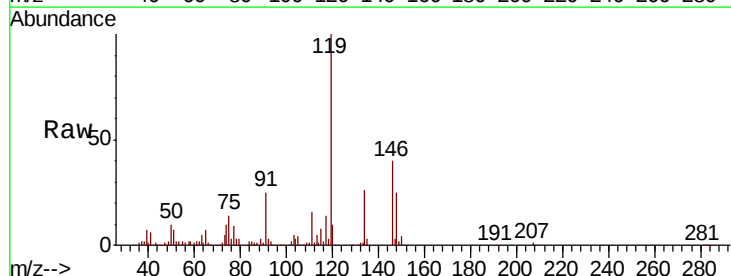
Tgt Ion:119 Resp: 355837

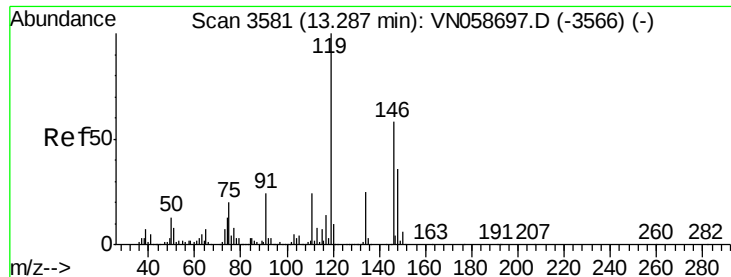
Ion Ratio Lower Upper

119 100

134 25.7 12.7 38.1

91 25.0 11.9 35.5





#87

1,3-Dichlorobenzene

Concen: 20.498 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN058799.D

Acq: 16 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

VN1016WBSD01

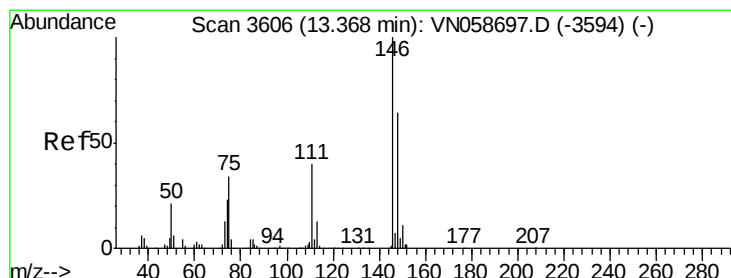
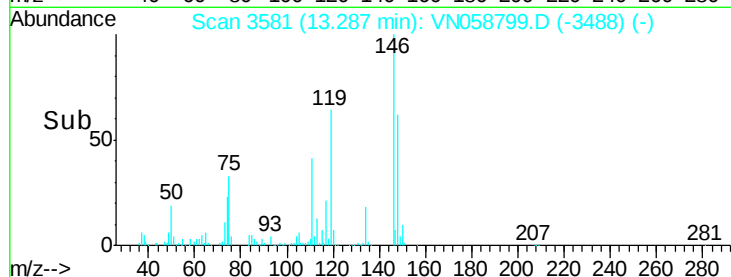
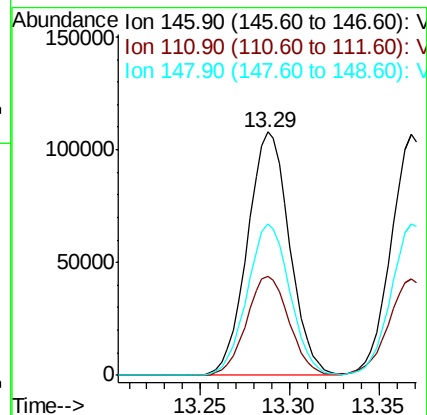
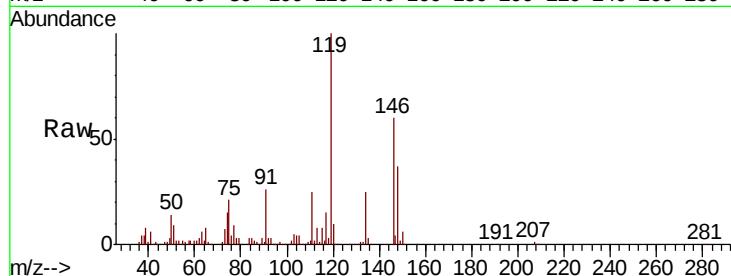
Tot Ion:146 Resp: 177976

Ion Ratio Lower Upper

146 100

111 41.2 20.5 61.6

148 63.0 31.3 93.9



#88

1,4-Dichlorobenzene

Concen: 20.027 ug/l

RT: 13.37 min Scan# 3606

Delta R.T. 0.00 min

Lab File: VN058799.D

Acq: 16 Oct 2019 14:20

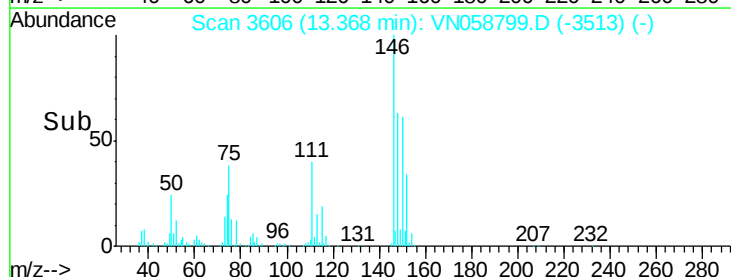
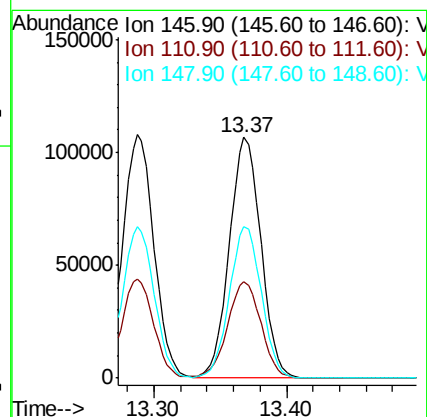
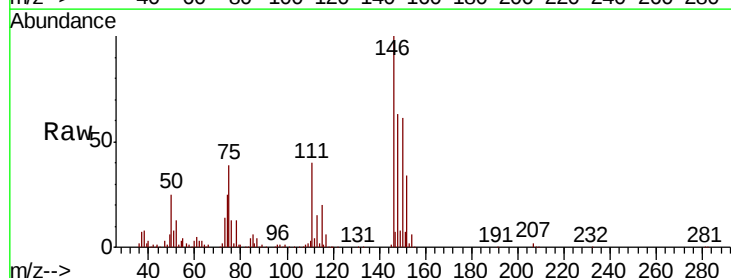
Tgt Ion:146 Resp: 176797

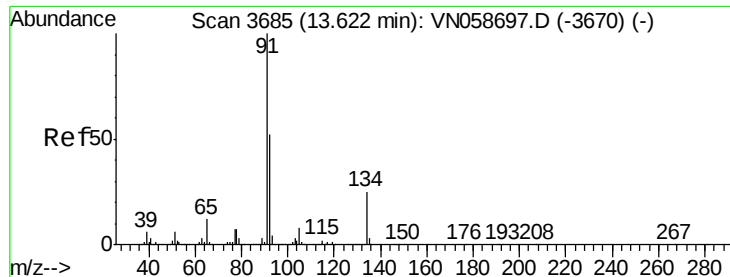
Ion Ratio Lower Upper

146 100

111 42.3 20.1 60.2

148 63.6 31.9 95.7





#89

n-Butylbenzene

Concen: 20.412 ug/l

RT: 13.62 min Scan# 3685

Delta R.T. 0.00 min

Lab File: VN058799.D

Acq: 16 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

VN1016WBSD01

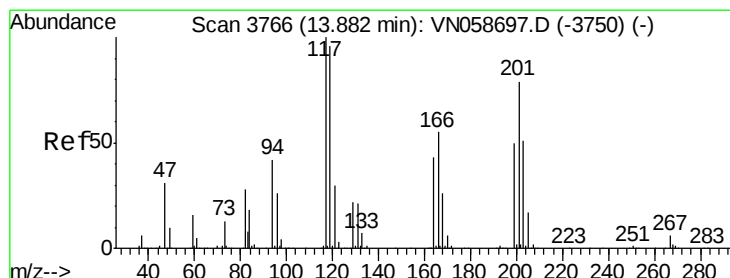
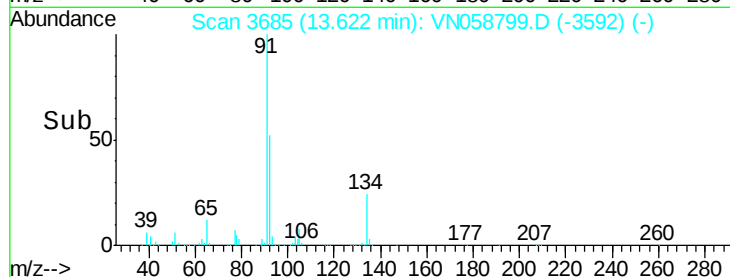
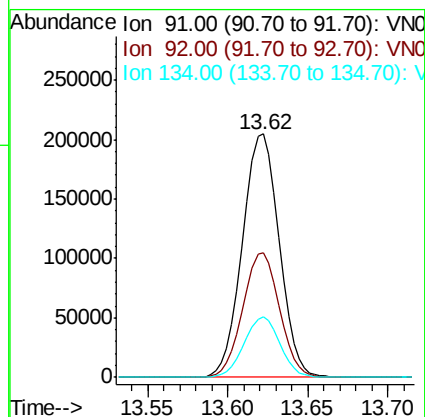
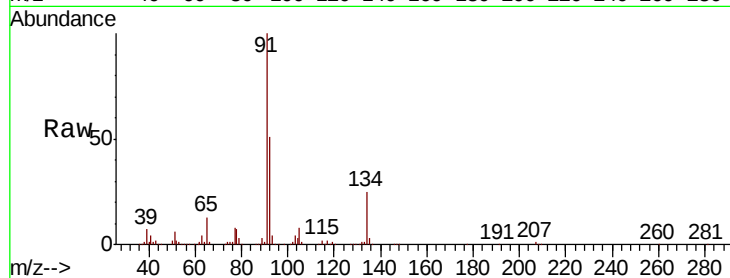
Tot Ion: 91 Resp: 319980

Ion	Ratio	Lower	Upper
91	100		
92	51.2	26.0	78.0
134	24.3	12.2	36.6

91 100

92 51.2 26.0 78.0

134 24.3 12.2 36.6



#90

Hexachloroethane

Concen: 21.695 ug/l

RT: 13.88 min Scan# 3765

Delta R.T. -0.00 min

Lab File: VN058799.D

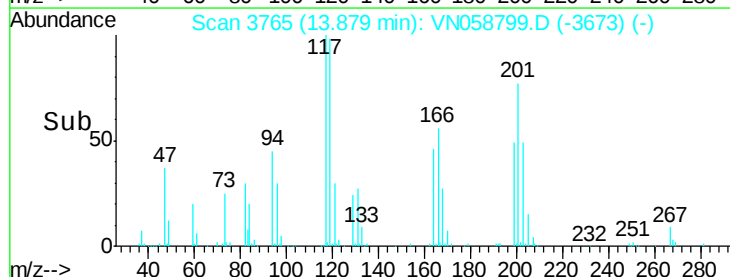
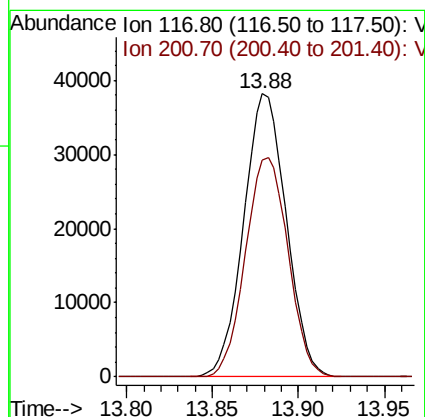
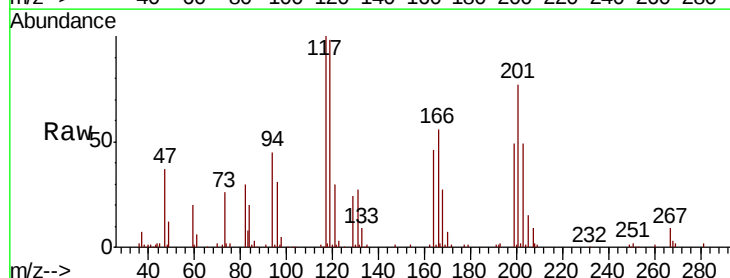
Acq: 16 Oct 2019 14:20

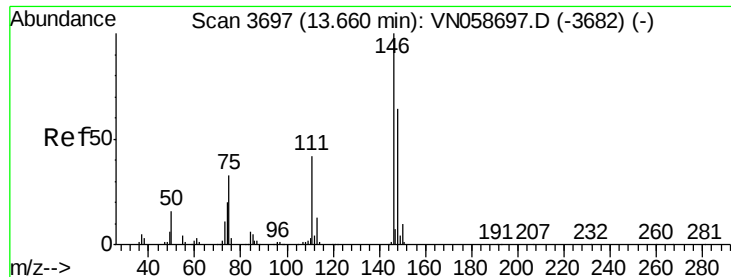
Tgt Ion: 117 Resp: 65814

Ion	Ratio	Lower	Upper
117	100		
201	77.5	39.6	118.7

117 100

201 77.5 39.6 118.7





#91

1,2-Dichlorobenzene

Concen: 20.953 ug/l

RT: 13.66 min Scan# 3697

Delta R.T. 0.00 min

Lab File: VN058799.D

Acq: 16 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampled :

VN1016WBSD01

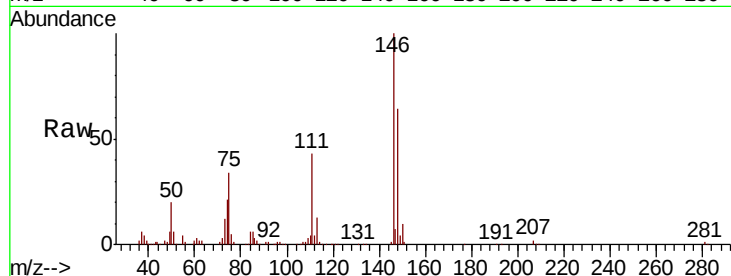
Tot Ion:146 Resp: 177309

Ion Ratio Lower Upper

146 100

111 42.6 21.1 63.4

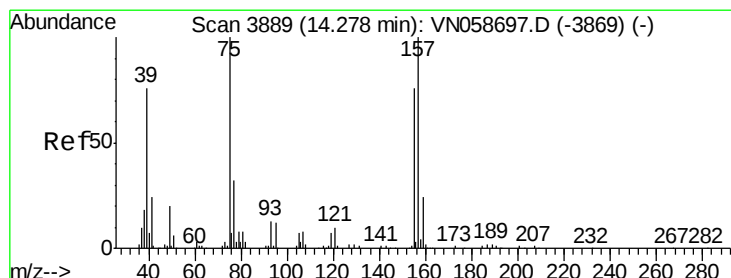
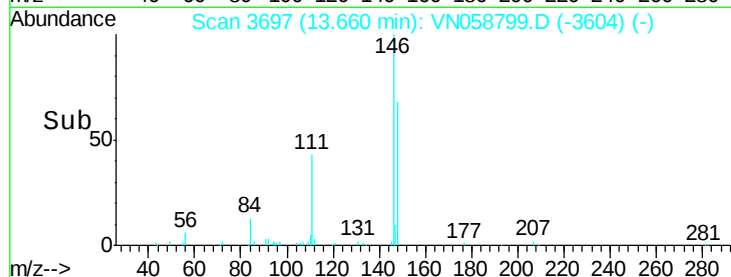
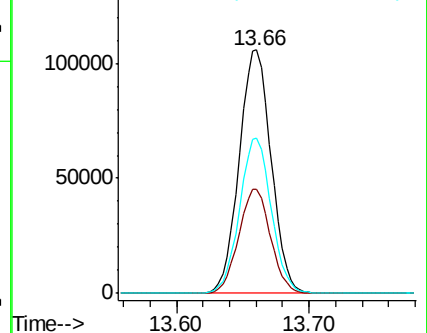
148 63.4 31.8 95.3



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: 19.700 ug/l

RT: 14.28 min Scan# 3889

Delta R.T. 0.00 min

Lab File: VN058799.D

Acq: 16 Oct 2019 14:20

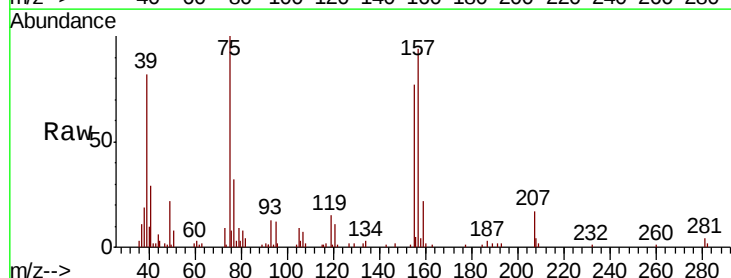
Tgt Ion: 75 Resp: 29346

Ion Ratio Lower Upper

75 100

155 75.4 37.9 113.6

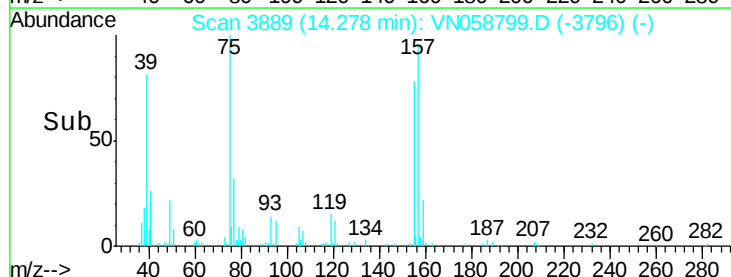
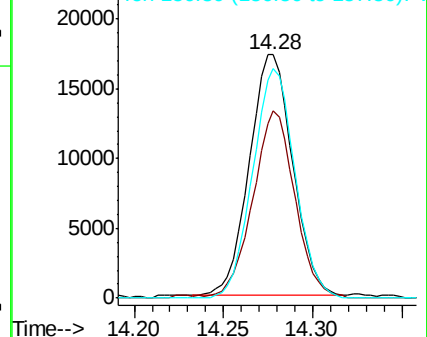
157 92.8 49.4 148.2



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

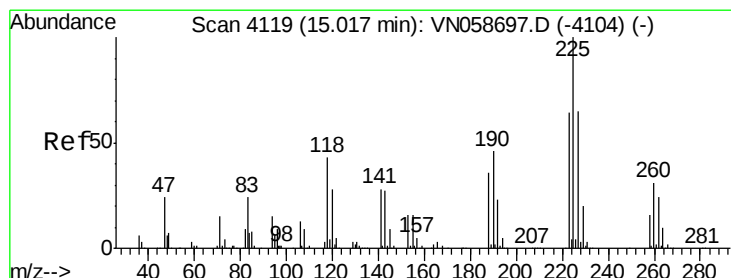
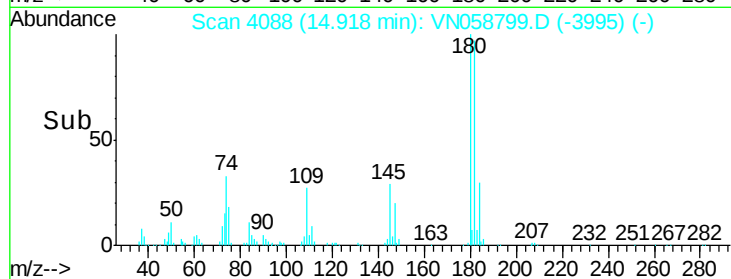
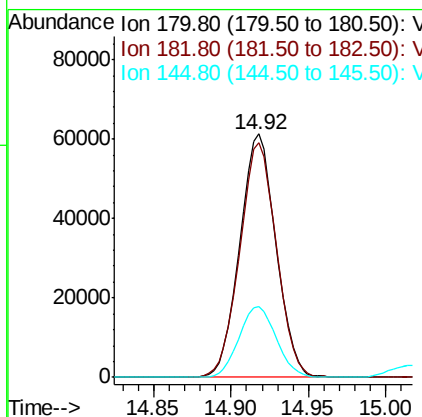
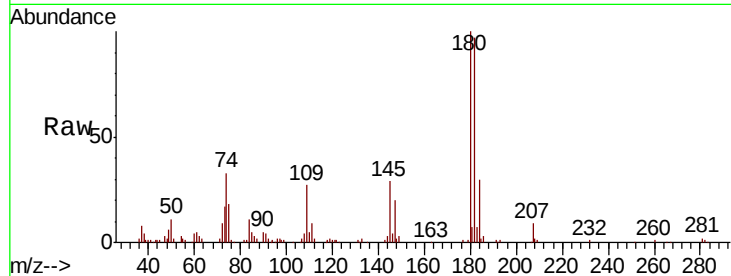




#93
 1,2,4-Trichlorobenzene
 Concen: 19.328 ug/l
 RT: 14.92 min Scan# 4088
 Delta R.T. 0.00 min
 Lab File: VN058799.D
 Acq: 16 Oct 2019 14:20

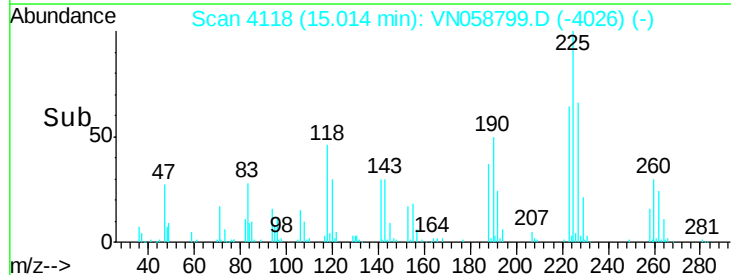
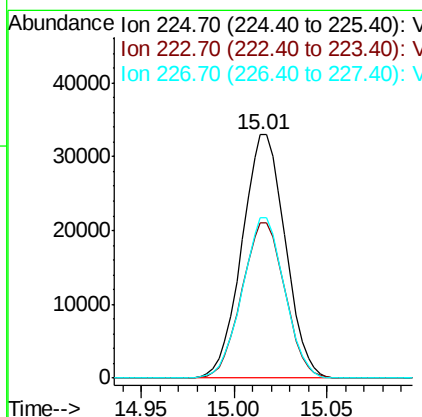
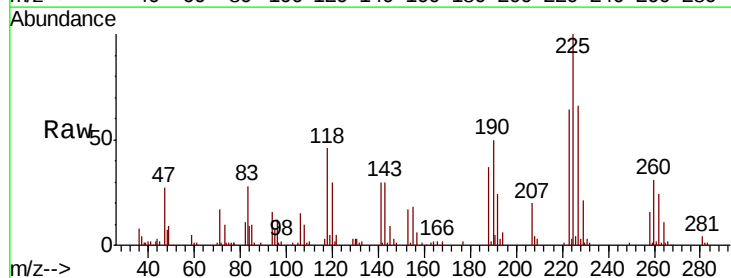
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1016WBSD01

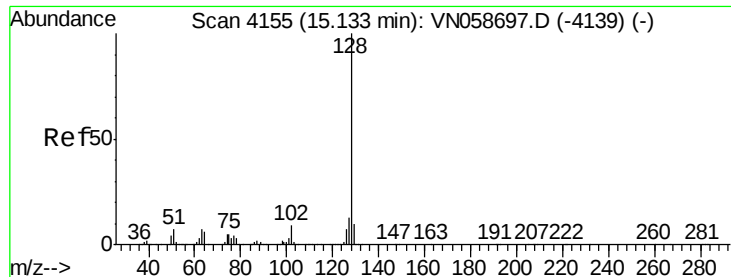
Tot Ion:180 Resp: 99772
 Ion Ratio Lower Upper
 180 100
 182 97.6 47.4 142.2
 145 30.1 15.4 46.2



#94
 Hexachlorobutadiene
 Concen: 19.666 ug/l
 RT: 15.01 min Scan# 4118
 Delta R.T. -0.00 min
 Lab File: VN058799.D
 Acq: 16 Oct 2019 14:20

Tgt Ion:225 Resp: 53460
 Ion Ratio Lower Upper
 225 100
 223 63.5 32.3 96.8
 227 64.4 32.4 97.0





#95

Naphthalene

Concen: 19.700 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN058799.D

Acq: 16 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

VN1016WBSD01

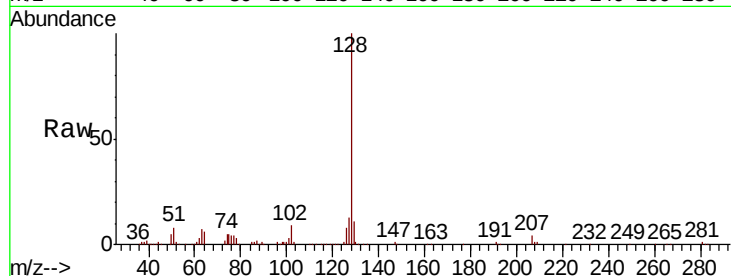
Tot Ion:128 Resp: 292264

Ion Ratio Lower Upper

128 100

127 13.1 10.2 15.4

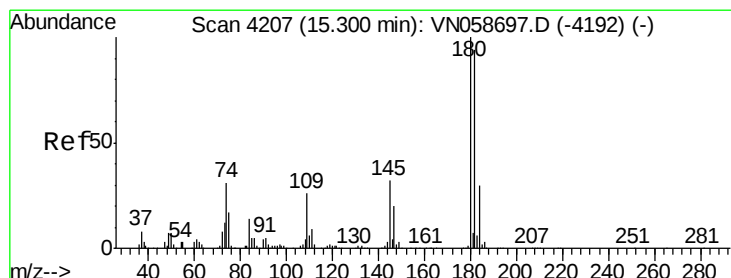
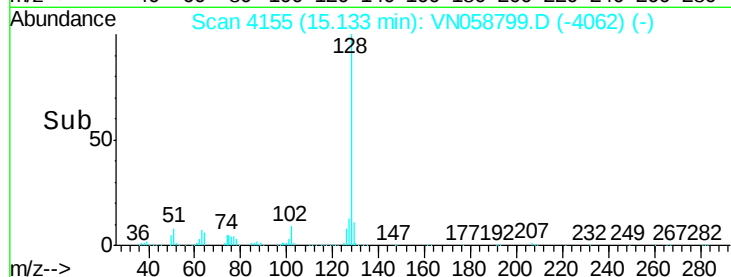
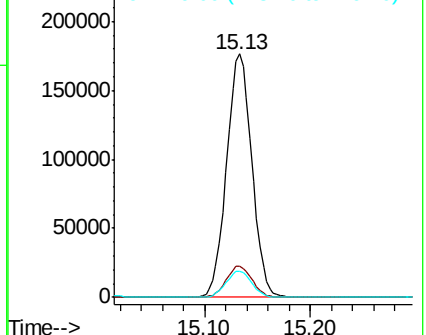
129 11.0 8.5 12.7



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: 19.718 ug/l

RT: 15.30 min Scan# 4207

Delta R.T. 0.00 min

Lab File: VN058799.D

Acq: 16 Oct 2019 14:20

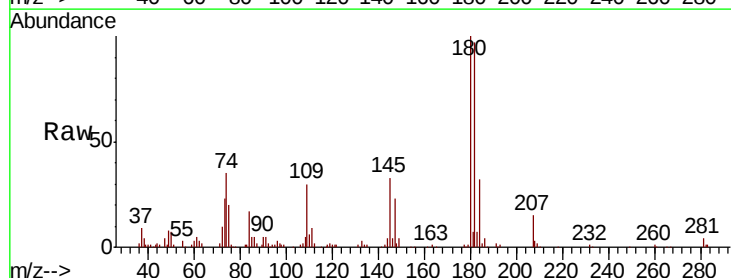
Tgt Ion:180 Resp: 99375

Ion Ratio Lower Upper

180 100

182 93.9 47.3 142.0

145 32.1 16.2 48.6



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

