

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111419\
 Data File : VN059228.D
 Acq On : 14 Nov 2019 13:09
 Operator : JC/SP
 Sample : VN1114MBS01
 Misc : 5.00uL/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1114MBS01

Quant Time: Nov 15 06:29:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110619W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 07 04:00:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	381467	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	600140	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	544667	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	244570	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	240469	51.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.56%	
35) Dibromofluoromethane	7.57	113	189573	52.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.80%	
50) Toluene-d8	10.08	98	705538	49.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.98%	
62) 4-Bromofluorobenzene	12.40	95	253073	49.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.46%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.83	85	69660	18.124	ug/l	100
3) Chloromethane	2.04	50	93342	17.866	ug/l	98
4) Vinyl Chloride	2.17	62	94408	18.638	ug/l	98
5) Bromomethane	2.54	94	57050	19.572	ug/l	98
6) Chloroethane	2.68	64	57321	19.130	ug/l	98
7) Trichlorofluoromethane	3.00	101	120899	19.955	ug/l	98
8) Diethyl Ether	3.39	74	48970	19.892	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	3.74	101	73766	20.193	ug/l	99
10) Methyl Iodide	3.93	142	84622	18.715	ug/l	98
11) Tert butyl alcohol	4.76	59	101043	113.066	ug/l	99
12) 1,1-Dichloroethene	3.72	96	68280	19.188	ug/l	97
13) Acrolein	3.58	56	32511	70.560	ug/l	95
14) Allyl chloride	4.30	41	136811	18.717	ug/l	99
15) Acrylonitrile	4.96	53	248027	111.522	ug/l	99
16) Acetone	3.79	43	209062	85.735	ug/l	99
17) Carbon Disulfide	4.03	76	187144	16.942	ug/l	99
18) Methyl Acetate	4.30	43	130565	22.558	ug/l	100
19) Methyl tert-butyl Ether	5.02	73	251778	20.551	ug/l	99
20) Methylene Chloride	4.53	84	83717	19.706	ug/l	99
21) trans-1,2-Dichloroethene	5.01	96	74830	19.591	ug/l	97
22) Diisopropyl ether	5.93	45	284281	20.590	ug/l	96
23) Vinyl Acetate	5.87	43	1172227	109.549	ug/l	99
24) 1,1-Dichloroethane	5.82	63	154306	20.010	ug/l	99
25) 2-Butanone	6.81	43	333108	103.650	ug/l	99
26) 2,2-Dichloropropane	6.80	77	127805	18.954	ug/l	99
27) cis-1,2-Dichloroethene	6.81	96	88300	19.926	ug/l	99
28) Bromochloromethane	7.17	49	49051	21.142	ug/l	99
29) Tetrahydrofuran	7.19	42	228603	111.949	ug/l	100
30) Chloroform	7.35	83	152678	20.639	ug/l	97
31) Cyclohexane	7.63	56	131811	18.056	ug/l	95
32) 1,1,1-Trichloroethane	7.55	97	128068	20.592	ug/l	100
36) 1,1-Dichloropropene	7.77	75	108774	19.391	ug/l	99
37) Ethyl Acetate	6.91	43	138045	22.121	ug/l	100
38) Carbon Tetrachloride	7.75	117	110212	19.740	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111419\
 Data File : VN059228.D
 Acq On : 14 Nov 2019 13:09
 Operator : JC/SP
 Sample : VN1114MBS01
 Misc : 5.00µl/10mL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1114MBS01

Quant Time: Nov 15 06:29:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110619W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 07 04:00:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

39) Methylcyclohexane	9.07	83	117152	17.995	ug/l	100
40) Benzene	8.02	78	338216	20.022	ug/l	98
41) Methacrylonitrile	7.19	41	193851	71.436	ug/l #	100
42) 1,2-Dichloroethane	8.10	62	120466	20.793	ug/l	99
43) Isopropyl Acetate	8.15	43	204493	20.554	ug/l	99
44) Trichloroethene	8.82	130	83972	20.222	ug/l	97
45) 1,2-Dichloropropane	9.10	63	94161	20.522	ug/l	99
46) Dibromomethane	9.19	93	57554	20.130	ug/l	99
47) Bromodichloromethane	9.39	83	117588	20.596	ug/l	96
48) Methyl methacrylate	9.18	41	91886	20.648	ug/l	99
49) 1,4-Dioxane	9.19	88	35379	447.355	ug/l	98
51) 4-Methyl-2-Pentanone	9.98	43	675316	119.964	ug/l	99
52) Toluene	10.15	92	201107	19.863	ug/l	99
53) t-1,3-Dichloropropene	10.37	75	129854	19.686	ug/l	100
54) cis-1,3-Dichloropropene	9.83	75	139726	19.693	ug/l	97
55) 1,1,2-Trichloroethane	10.55	97	84188	20.546	ug/l	97
56) Ethyl methacrylate	10.42	69	123612	19.283	ug/l	98
57) 1,3-Dichloropropane	10.70	76	147172	20.868	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.68	63	263632	115.607	ug/l	100
59) 2-Hexanone	10.75	43	488147	112.977	ug/l	100
60) Dibromochloromethane	10.90	129	89043	20.553	ug/l	99
61) 1,2-Dibromoethane	11.00	107	84495	20.370	ug/l	98
64) Tetrachloroethene	10.63	164	70686	19.085	ug/l	97
65) Chlorobenzene	11.43	112	213744	20.131	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	83255	20.903	ug/l	99
67) Ethyl Benzene	11.51	91	377891	20.060	ug/l	99
68) m/p-Xylenes	11.62	106	278043	39.402	ug/l	99
69) o-Xylene	11.95	106	135127	19.815	ug/l	99
70) Styrene	11.96	104	213356	19.893	ug/l	99
71) Bromoform	12.13	173	66171	21.359	ug/l #	98
73) Isopropylbenzene	12.25	105	361930	20.344	ug/l	100
74) N-amyl acetate	12.07	43	155659	20.649	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.51	83	133411	22.021	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	172530	30.986	ug/l #	100
77) Bromobenzene	12.53	156	88491	19.798	ug/l	98
78) n-propylbenzene	12.59	91	417109	20.477	ug/l	100
79) 2-Chlorotoluene	12.67	91	256899	20.330	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	305170	20.244	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	43879	20.815	ug/l	98
82) 4-Chlorotoluene	12.77	91	252283	19.906	ug/l	98
83) tert-Butylbenzene	12.99	119	262970	20.200	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	299159	20.512	ug/l	100
85) sec-Butylbenzene	13.17	105	341773	20.187	ug/l	100
86) p-Isopropyltoluene	13.29	119	302020	20.203	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	154424	20.176	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	149557	19.530	ug/l	99
89) n-Butylbenzene	13.62	91	243018	18.574	ug/l	99
90) Hexachloroethane	13.88	117	61989	20.651	ug/l	93
91) 1,2-Dichlorobenzene	13.66	146	154516	20.522	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	27075	22.415	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN111419\
Data File : VN059228.D
Acq On : 14 Nov 2019 13:09
Operator : JC/SP
Sample : VN1114MBS01
Misc : 5.00µ/10mL/100µL/5.00mL/MSVOA_N/MEOH
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1114MBS01

Quant Time: Nov 15 06:29:03 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110619W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 07 04:00:41 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	74958	18.456	ug/l	99
94) Hexachlorobutadiene	15.01	225	50213	19.342	ug/l	99
95) Naphthalene	15.13	128	223503	19.606	ug/l	99
96) 1,2,3-Trichlorobenzene	15.30	180	79880	18.931	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Instrument :

MSVOA_N

ClientSampleId :

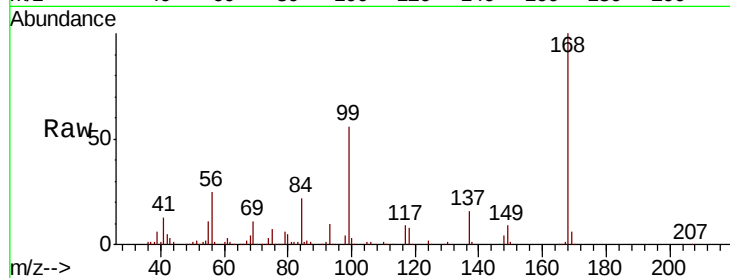
VN1114MBS01

Tot Ion:168 Resp: 381467

Ion Ratio Lower Upper

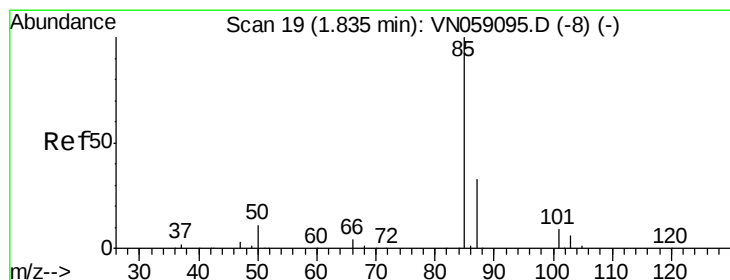
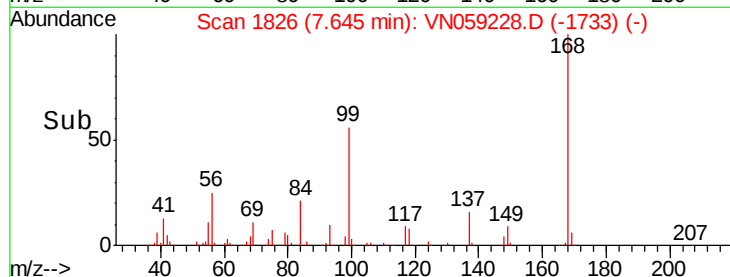
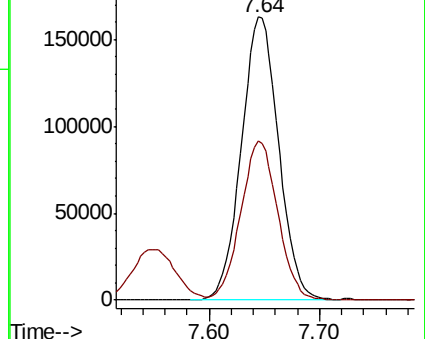
168 100

99 55.8 45.7 68.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#2

Dichlorodifluoromethane

Concen: 18.124 ug/l

RT: 1.83 min Scan# 19

Delta R.T. -0.00 min

Lab File: VN059228.D

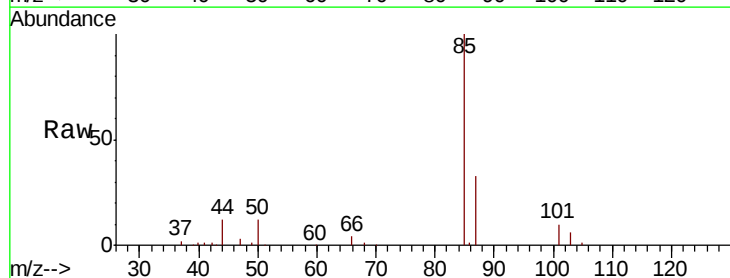
Acq: 14 Nov 2019 13:09

Tgt Ion: 85 Resp: 69660

Ion Ratio Lower Upper

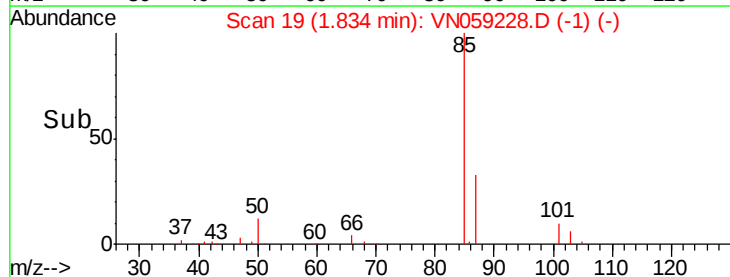
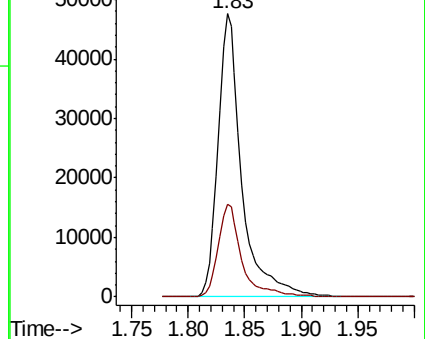
85 100

87 32.7 16.3 48.9



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN





#3

Chloromethane

Concen: 17.866 ug/l

RT: 2.04 min Scan# 83

Delta R.T. -0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Instrument :

MSVOA_N

ClientSampleId :

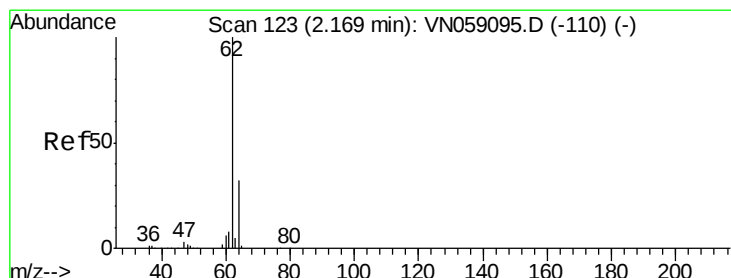
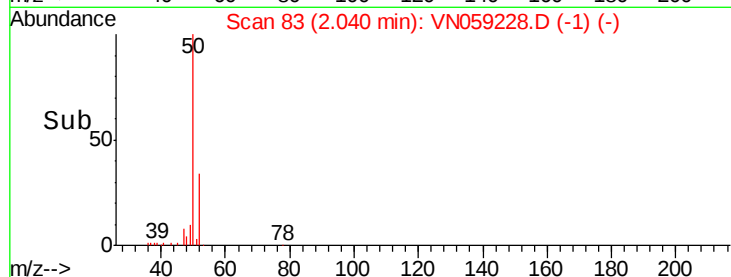
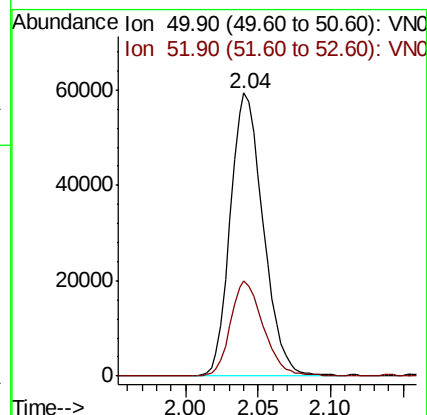
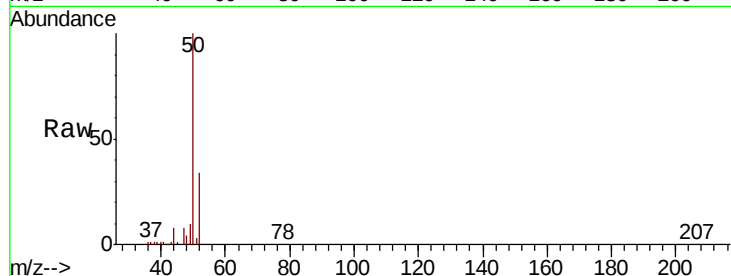
VN1114MBS01

Tot Ion: 50 Resp: 93342

Ion Ratio Lower Upper

50 100

52 33.6 26.0 39.0



#4

Vinyl Chloride

Concen: 18.638 ug/l

RT: 2.17 min Scan# 123

Delta R.T. -0.00 min

Lab File: VN059228.D

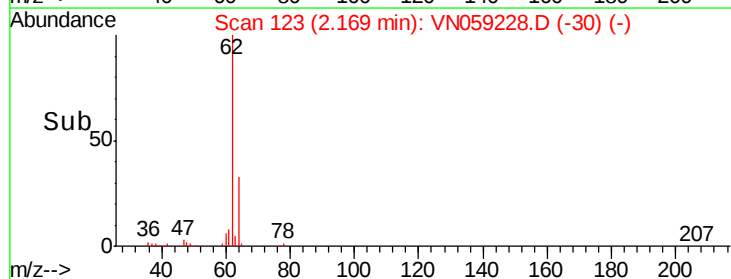
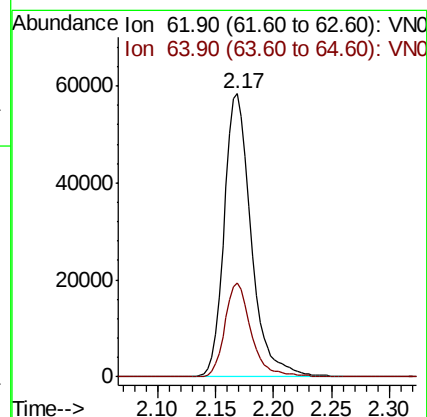
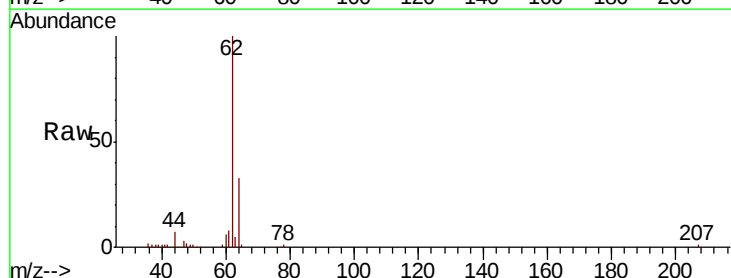
Acq: 14 Nov 2019 13:09

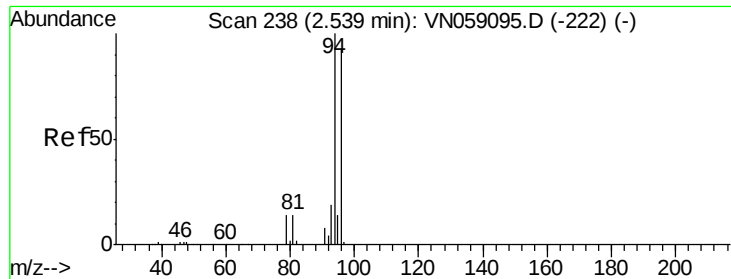
Tgt Ion: 62 Resp: 94408

Ion Ratio Lower Upper

62 100

64 33.1 25.4 38.2





#5

Bromomethane

Concen: 19.572 ug/l

RT: 2.54 min Scan# 239

Delta R.T. 0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Instrument :

MSVOA_N

ClientSampleId :

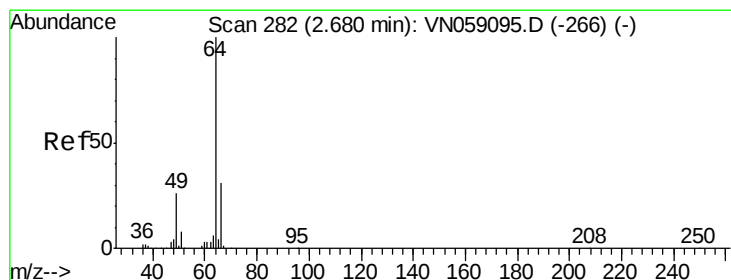
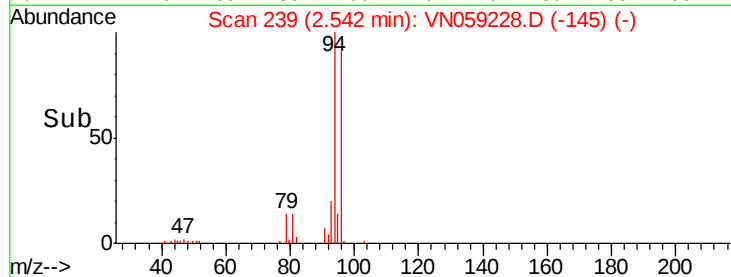
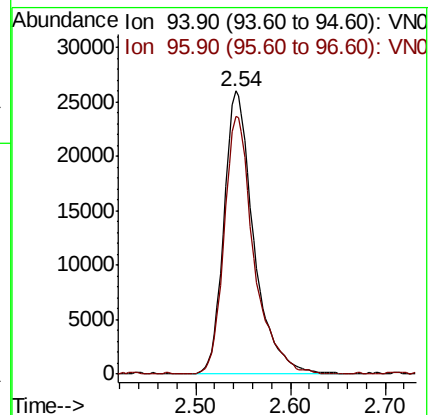
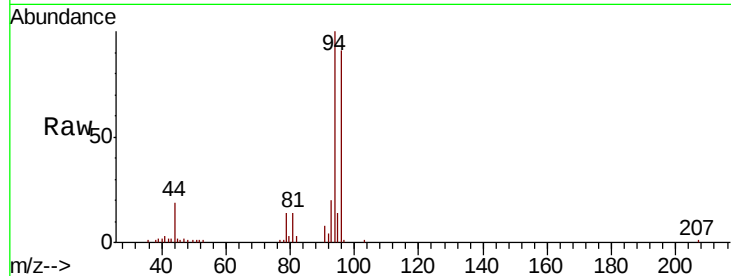
VN1114MBS01

Tot Ion: 94 Resp: 57050

Ion Ratio Lower Upper

94 100

96 91.1 74.2 111.2



#6

Chloroethane

Concen: 19.130 ug/l

RT: 2.68 min Scan# 283

Delta R.T. 0.00 min

Lab File: VN059228.D

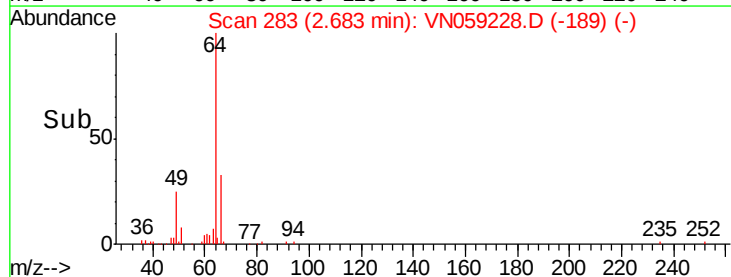
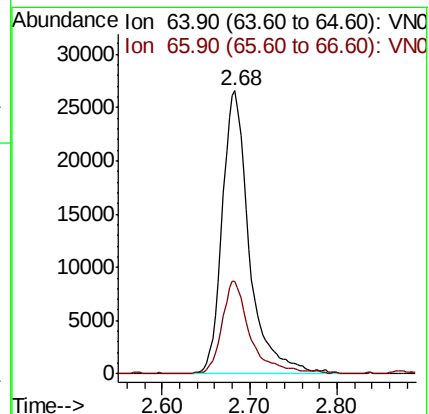
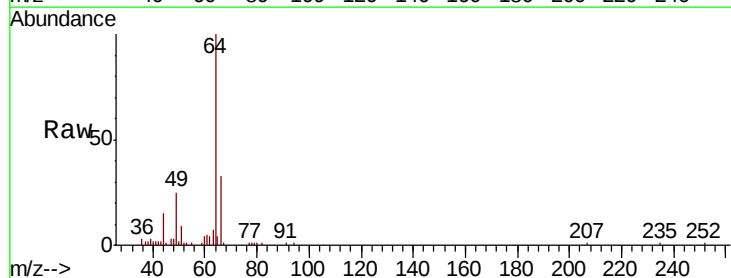
Acq: 14 Nov 2019 13:09

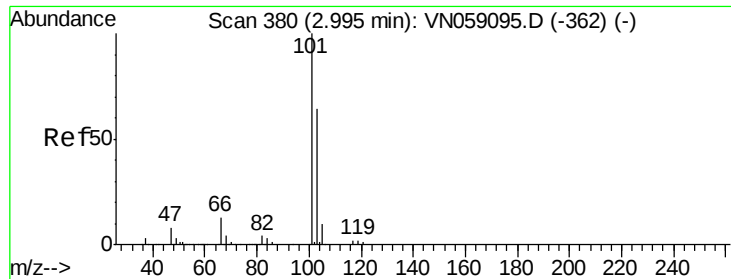
Tgt Ion: 64 Resp: 57321

Ion Ratio Lower Upper

64 100

66 32.6 25.2 37.8



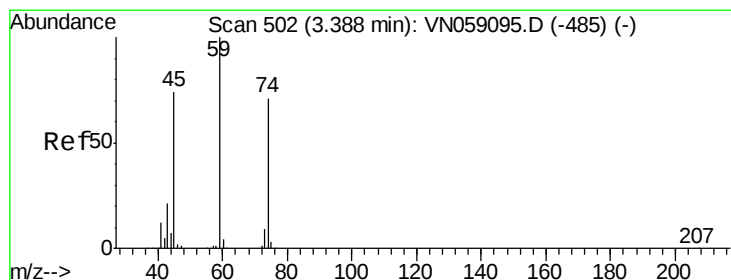
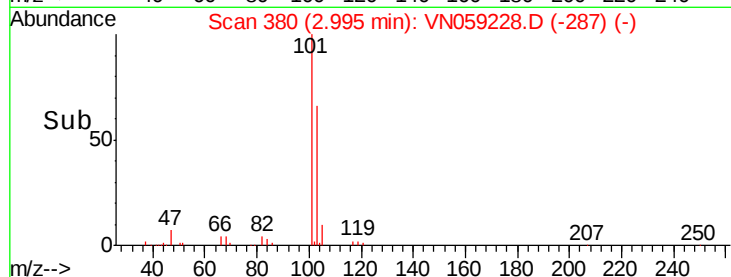
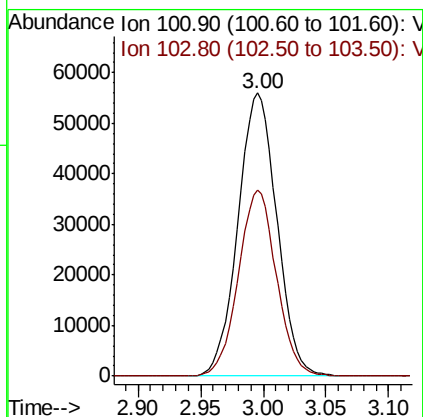
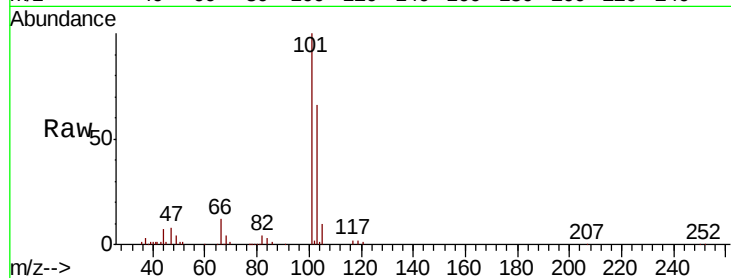


#7

Trichlorofluoromethane
 Concen: 19.955 ug/l
 RT: 3.00 min Scan# 380
 Delta R.T. -0.00 min
 Lab File: VN059228.D
 Acq: 14 Nov 2019 13:09

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1114MBS01

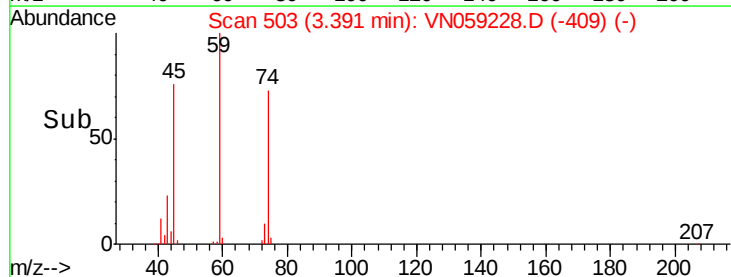
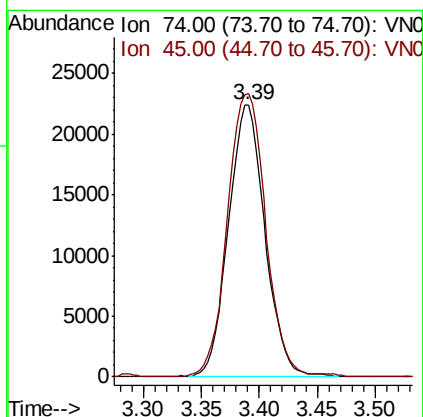
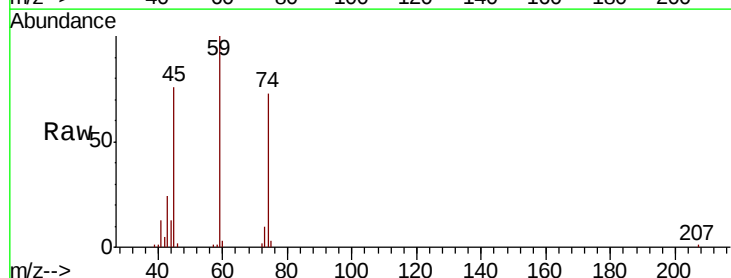
Tot Ion:101 Resp: 120899
 Ion Ratio Lower Upper
 101 100
 103 65.9 51.2 76.8



#8

Diethyl Ether
 Concen: 19.892 ug/l
 RT: 3.39 min Scan# 503
 Delta R.T. 0.00 min
 Lab File: VN059228.D
 Acq: 14 Nov 2019 13:09

Tgt Ion: 74 Resp: 48970
 Ion Ratio Lower Upper
 74 100
 45 108.8 51.6 154.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.193 ug/l

RT: 3.74 min Scan# 611

Delta R.T. 0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Instrument :

MSVOA_N

ClientSampleId :

VN1114MBS01

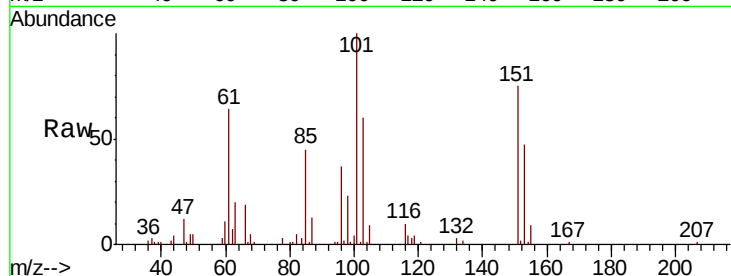
Tot Ion:101 Resp: 73766

Ion Ratio Lower Upper

101 100

85 44.8 35.5 53.3

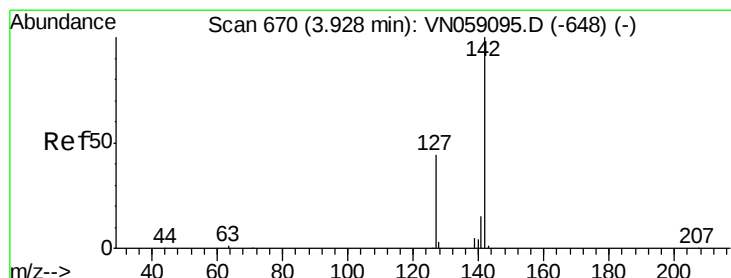
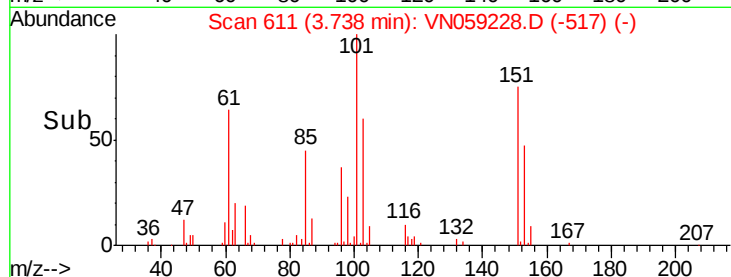
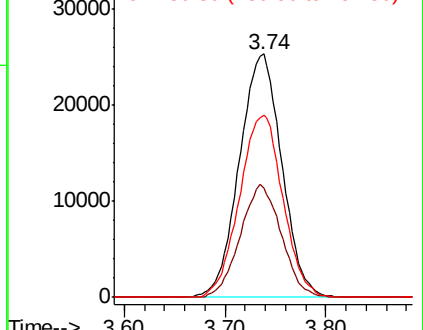
151 76.4 62.2 93.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 18.715 ug/l

RT: 3.93 min Scan# 670

Delta R.T. -0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

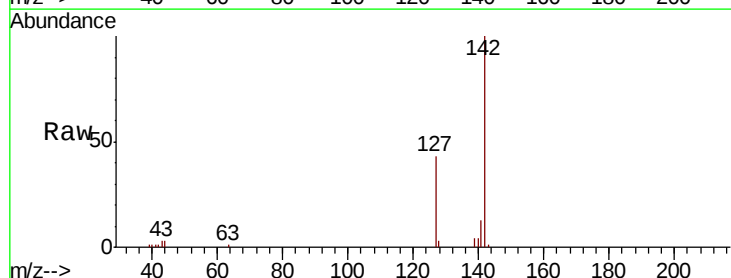
Tgt Ion:142 Resp: 84622

Ion Ratio Lower Upper

142 100

127 43.8 34.2 51.2

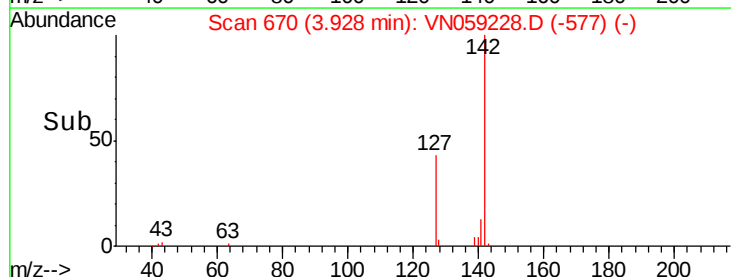
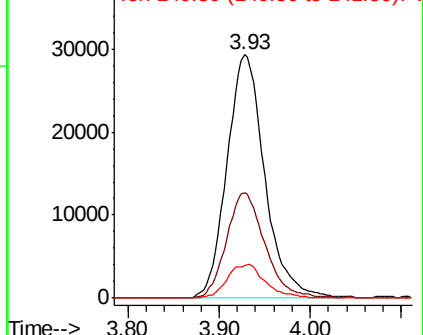
141 13.9 11.4 17.0

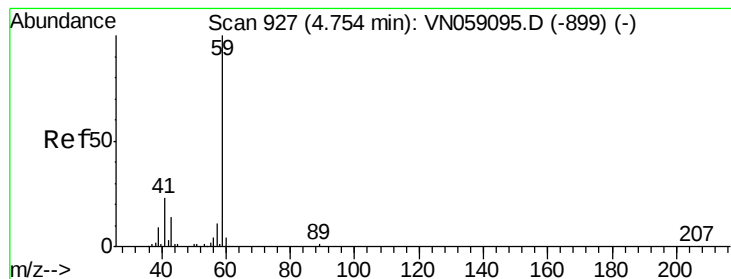


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



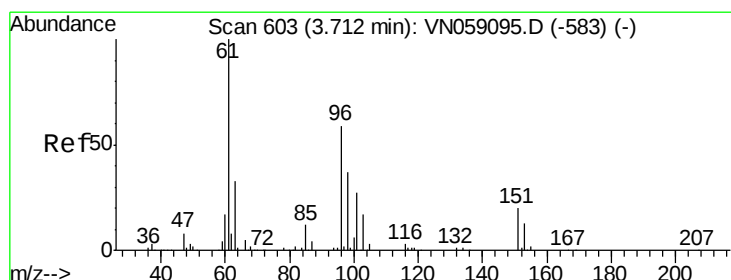
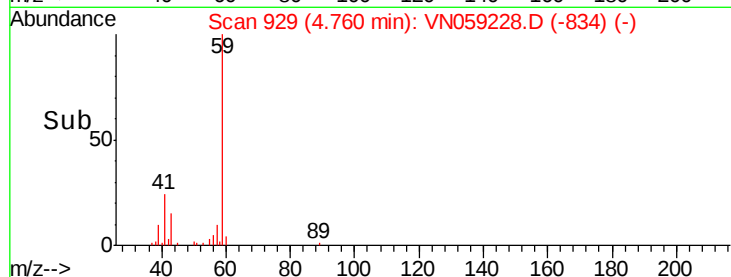
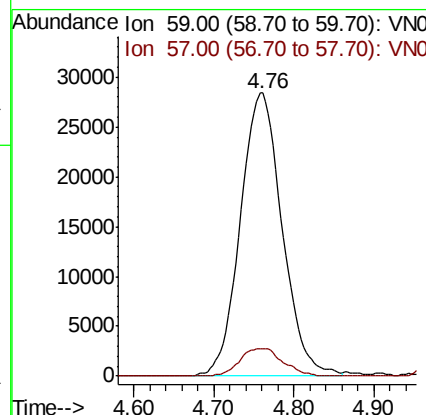
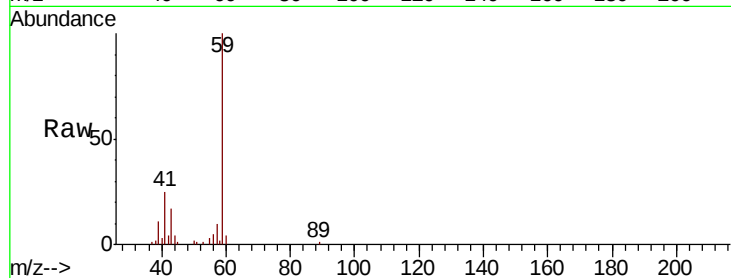


#11

Tert butyl alcohol
 Concen: 113.066 ug/l
 RT: 4.76 min Scan# 929
 Delta R.T. 0.01 min
 Lab File: VN059228.D
 Acq: 14 Nov 2019 13:09

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1114MBS01

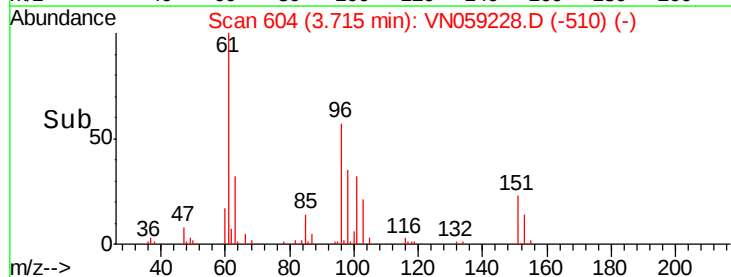
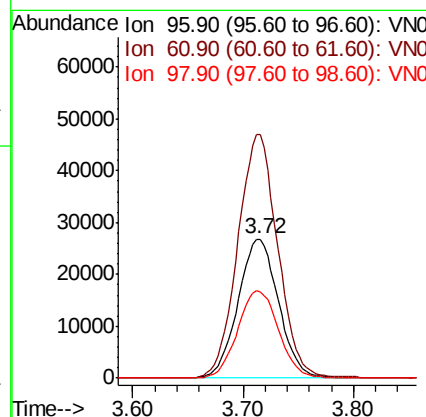
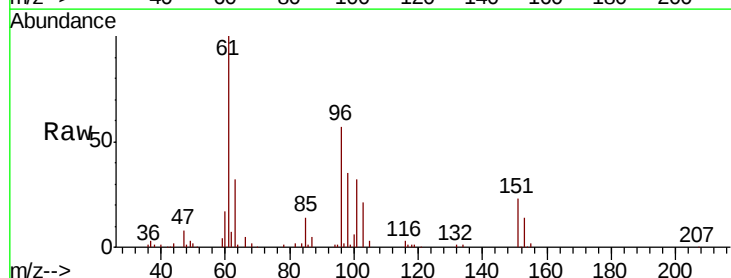
Tot Ion: 59 Resp: 101043
 Ion Ratio Lower Upper
 59 100
 57 10.0 8.3 12.5



#12

1,1-Dichloroethene
 Concen: 19.188 ug/l
 RT: 3.72 min Scan# 604
 Delta R.T. 0.00 min
 Lab File: VN059228.D
 Acq: 14 Nov 2019 13:09

Tgt Ion: 96 Resp: 68280
 Ion Ratio Lower Upper
 96 100
 61 175.3 136.5 204.7
 98 61.6 50.2 75.4





#13

Acrolein

Concen: 70.560 ug/l

RT: 3.58 min Scan# 563

Delta R.T. 0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Instrument :

MSVOA_N

ClientSampleId :

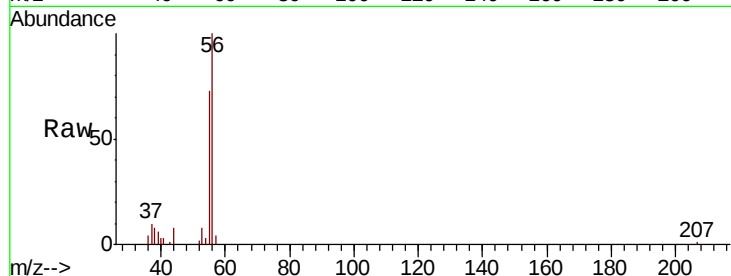
VN1114MBS01

Tot Ion: 56 Resp: 32511

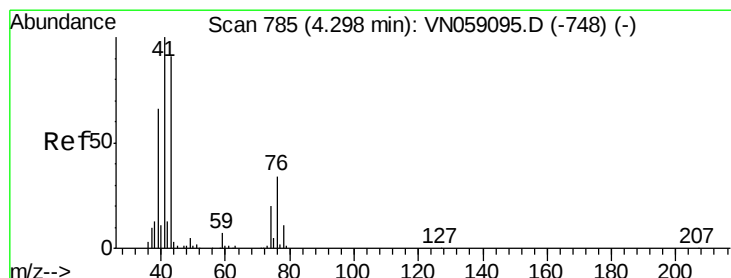
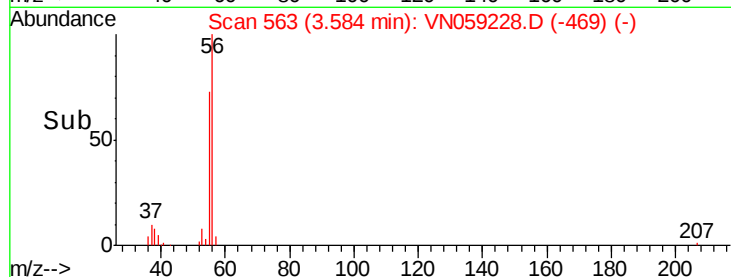
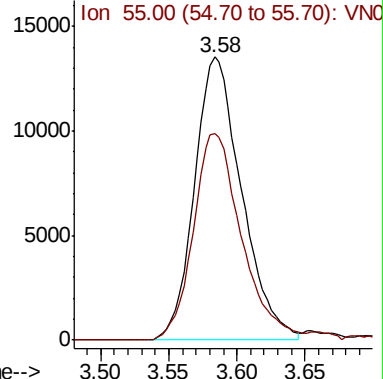
Ion Ratio Lower Upper

56 100

55 74.8 56.4 84.6



Abundance Ion 56.00 (55.70 to 56.70): VN059228.D (-546) (-)



#14

Allyl chloride

Concen: 18.717 ug/l

RT: 4.30 min Scan# 785

Delta R.T. -0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

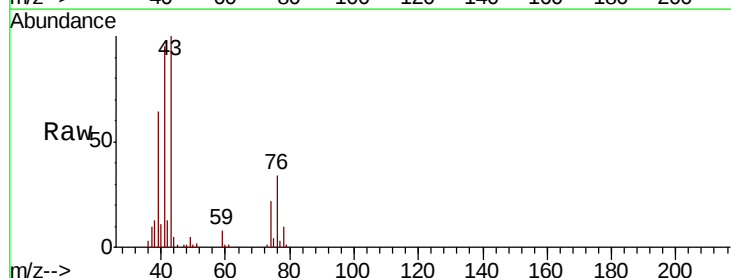
Tgt Ion: 41 Resp: 136811

Ion Ratio Lower Upper

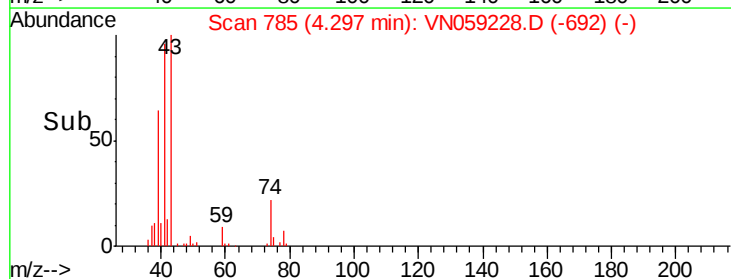
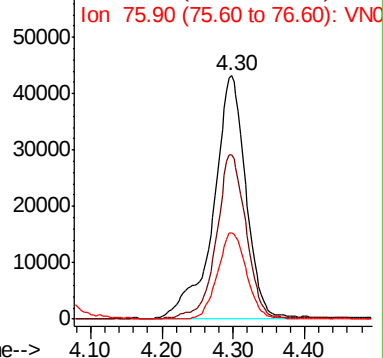
41 100

39 61.8 49.1 73.7

76 31.6 24.9 37.3



Abundance Ion 41.00 (40.70 to 41.70): VN059228.D (-692) (-)





#15

Acrylonitrile

Concen: 111.522 ug/l

RT: 4.96 min Scan# 990

Delta R.T. 0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Instrument :

MSVOA_N

ClientSampleId :

VN1114MBS01

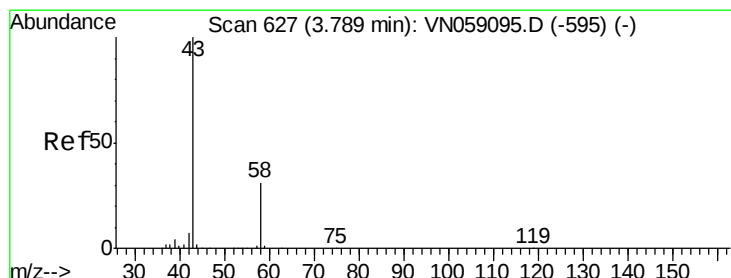
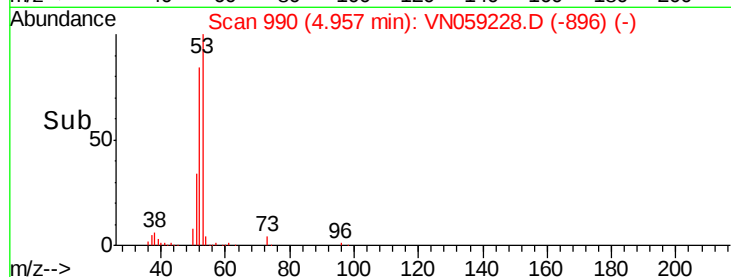
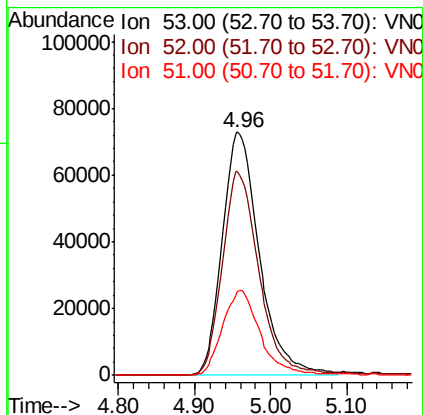
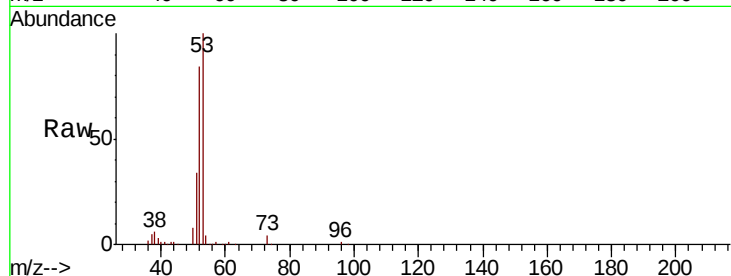
Tot Ion: 53 Resp: 248027

Ion Ratio Lower Upper

53 100

52 82.2 65.0 97.6

51 35.5 28.0 42.0



#16

Acetone

Concen: 85.735 ug/l

RT: 3.79 min Scan# 628

Delta R.T. 0.00 min

Lab File: VN059228.D

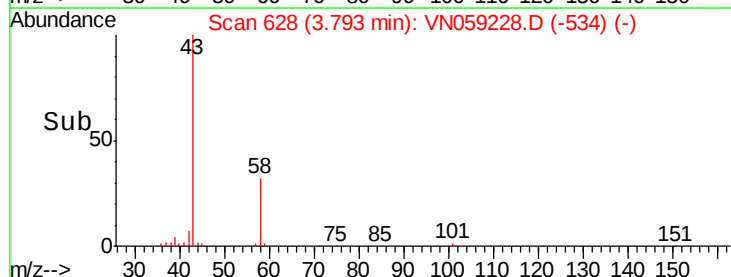
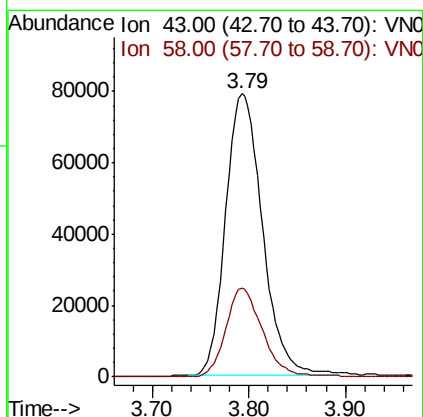
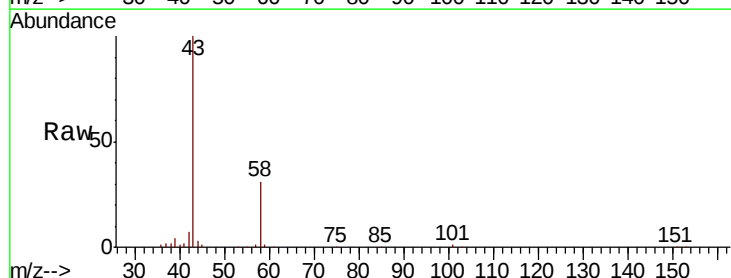
Acq: 14 Nov 2019 13:09

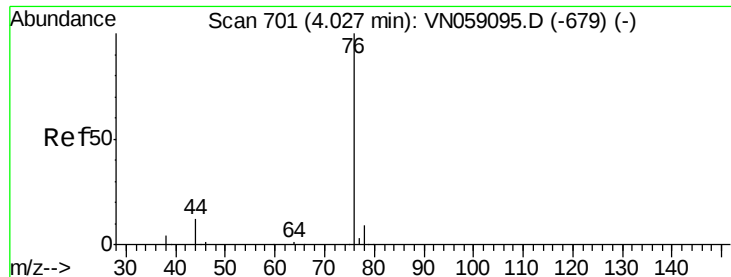
Tgt Ion: 43 Resp: 209062

Ion Ratio Lower Upper

43 100

58 31.6 24.9 37.3





#17

Carbon Disulfide

Concen: 16.942 ug/l

RT: 4.03 min Scan# 701

Delta R.T. -0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Instrument :

MSVOA_N

ClientSampleId :

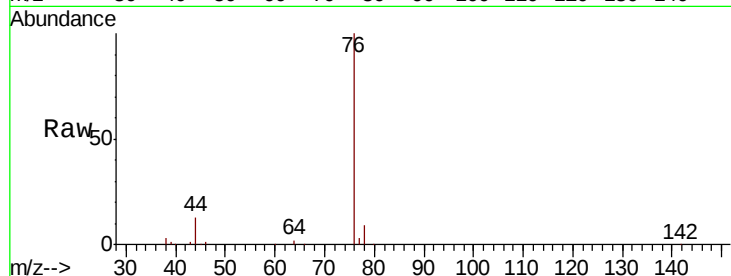
VN1114MBS01

Tot Ion: 76 Resp: 187144

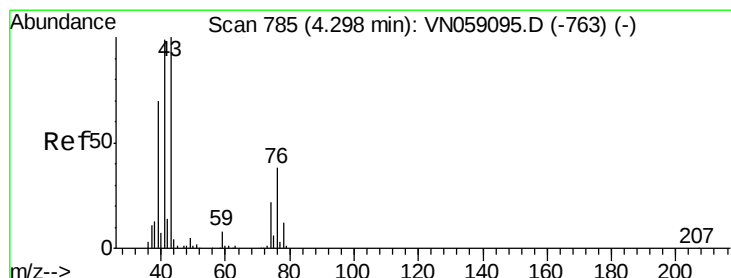
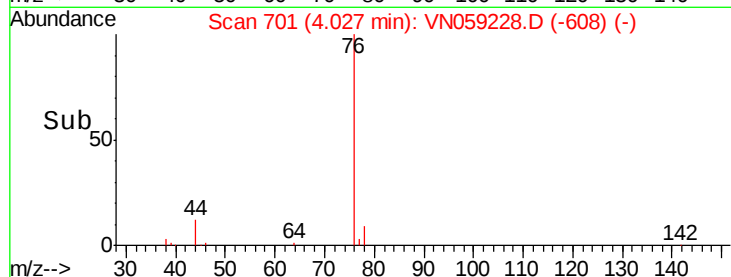
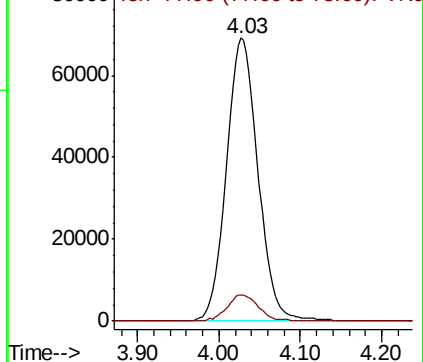
Ion Ratio Lower Upper

76 100

78 9.4 7.4 11.0



Abundance Ion 75.90 (75.60 to 76.60): VNO
Ion 77.90 (77.60 to 78.60): VNO



#18

Methyl Acetate

Concen: 22.558 ug/l

RT: 4.30 min Scan# 786

Delta R.T. 0.00 min

Lab File: VN059228.D

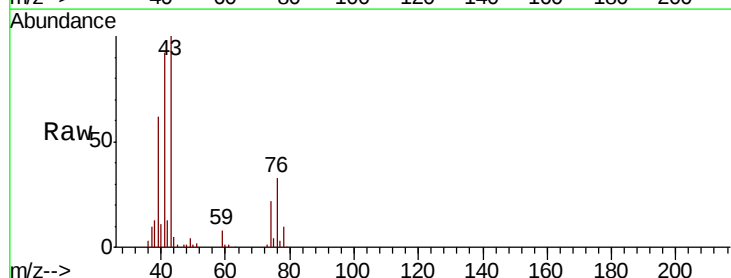
Acq: 14 Nov 2019 13:09

Tgt Ion: 43 Resp: 130565

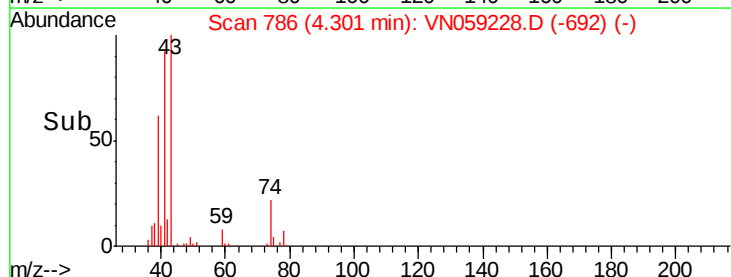
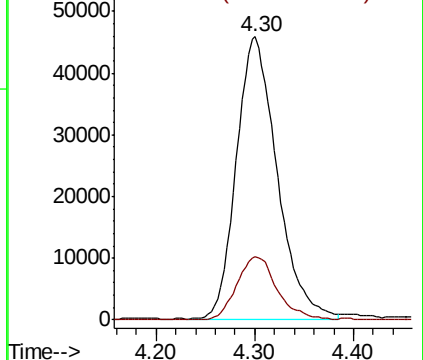
Ion Ratio Lower Upper

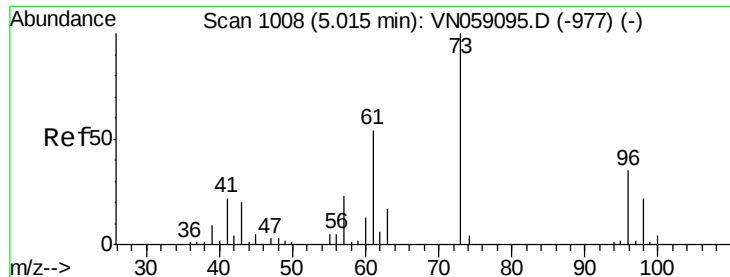
43 100

74 22.2 17.8 26.8



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 74.00 (73.70 to 74.70): VNO





#19

Methyl tert-butyl Ether

Concen: 20.551 ug/l

RT: 5.02 min Scan# 1009

Delta R.T. 0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Instrument :

MSVOA_N

ClientSampleId :

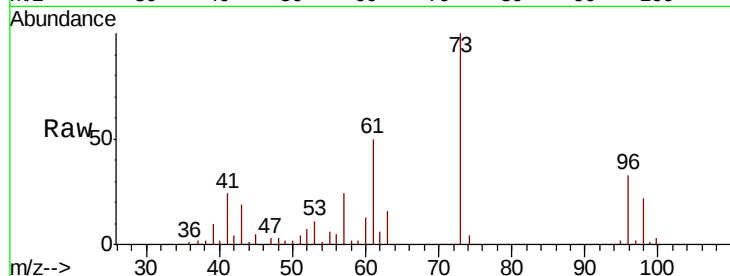
VN1114MBS01

Tot Ion: 73 Resp: 251778

Ion Ratio Lower Upper

73 100

57 23.5 18.4 27.6



Abundance Ion 73.00 (72.70 to 73.70): VN059095.D (-977) (-)

Ion 57.00 (56.70 to 57.70): VN059095.D (-977) (-)

5.02

60000

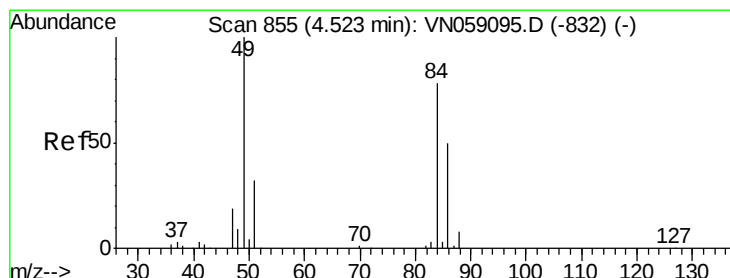
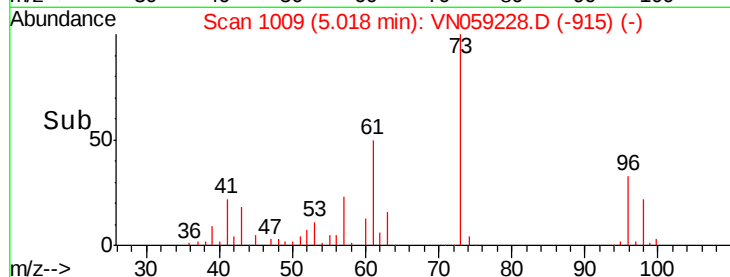
40000

20000

0

Time-->

4.90 5.00 5.10



#20

Methylene Chloride

Concen: 19.706 ug/l

RT: 4.53 min Scan# 857

Delta R.T. 0.01 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Tgt Ion: 84 Resp: 83717

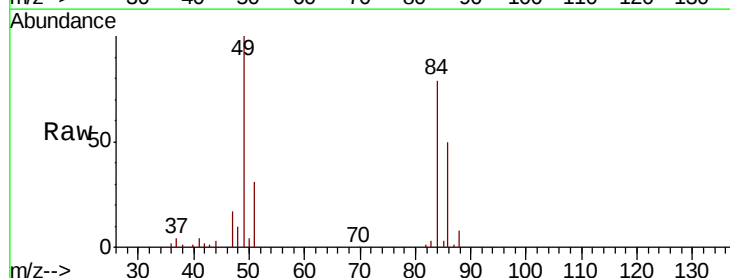
Ion Ratio Lower Upper

84 100

49 126.8 102.0 153.0

51 38.9 32.2 48.2

86 62.8 50.7 76.1



Abundance Ion 83.90 (83.60 to 84.60): VN059095.D (-832) (-)

Ion 48.90 (48.60 to 49.60): VN059095.D (-832) (-)

Ion 50.90 (50.60 to 51.60): VN059095.D (-832) (-)

Ion 85.90 (85.60 to 86.60): VN059095.D (-832) (-)

4.53

50000

40000

30000

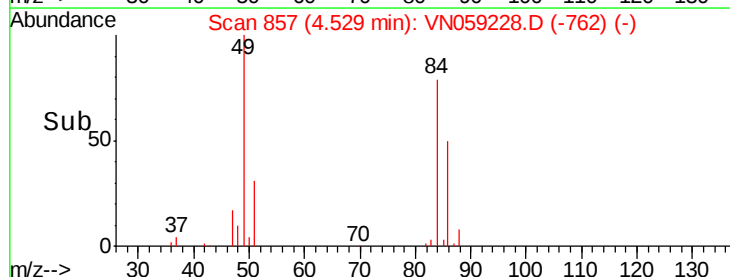
20000

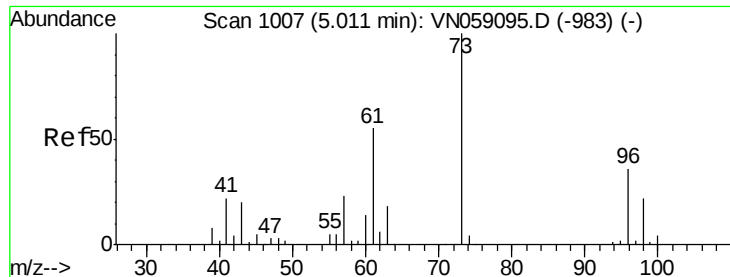
10000

0

Time-->

4.40 4.50 4.60 4.70





#21

trans-1,2-Dichloroethene

Concen: 19.591 ug/l

RT: 5.01 min Scan# 1008

Delta R.T. 0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Instrument :

MSVOA_N

ClientSampleId :

VN1114MBS01

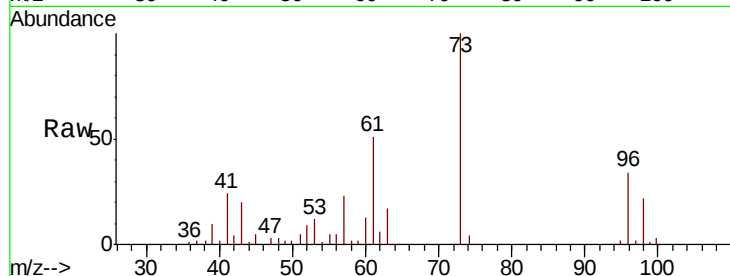
Tot Ion: 96 Resp: 74830

Ion Ratio Lower Upper

96 100

61 150.4 122.6 183.8

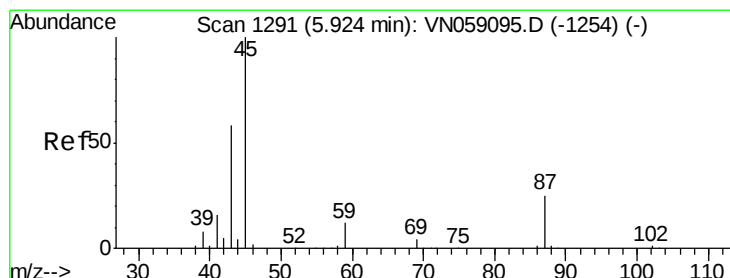
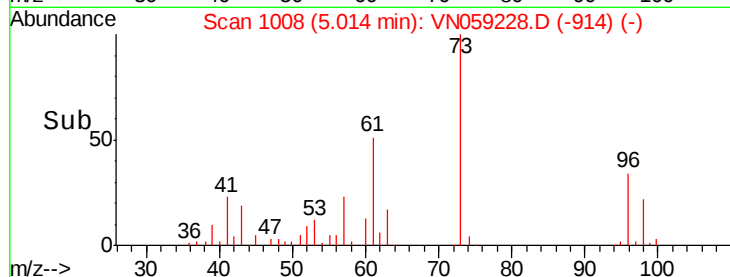
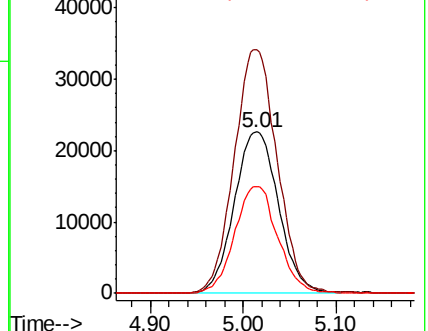
98 66.2 50.3 75.5



Abundance Ion 95.90 (95.60 to 96.60): VN059228.D (-1198) (-)

Ion 60.90 (60.60 to 61.60): VN059228.D (-1198) (-)

Ion 97.90 (97.60 to 98.60): VN059228.D (-1198) (-)



#22

Diisopropyl ether

Concen: 20.590 ug/l

RT: 5.93 min Scan# 1292

Delta R.T. 0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Tgt Ion: 45 Resp: 284281

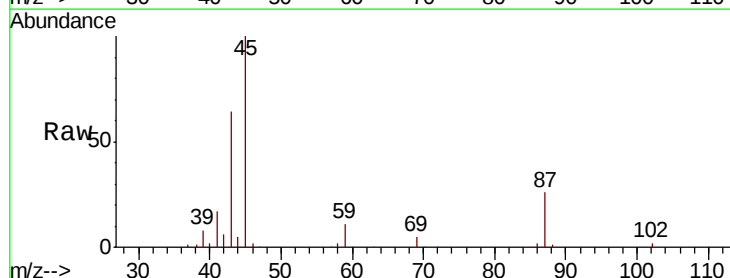
Ion Ratio Lower Upper

45 100

43 62.4 46.7 70.1

87 25.7 20.5 30.7

59 11.0 9.6 14.4

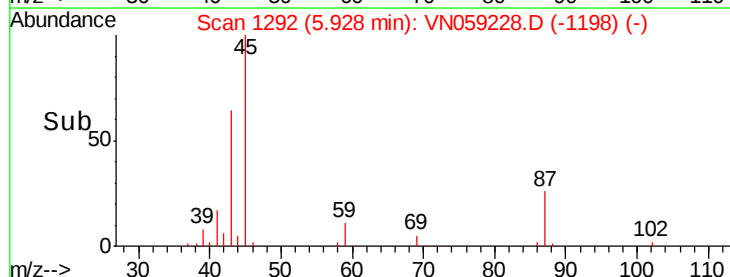
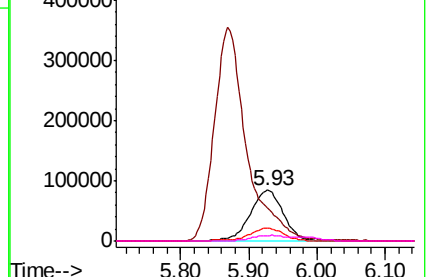


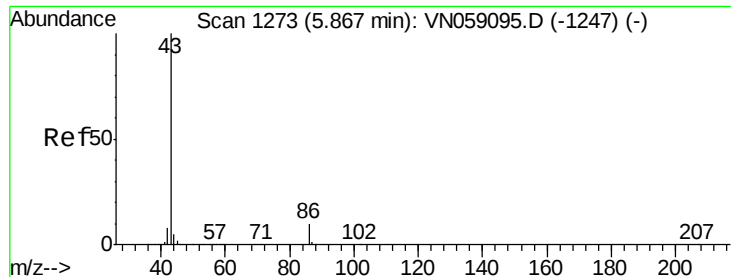
Abundance Ion 45.00 (44.70 to 45.70): VN059228.D (-1198) (-)

Ion 43.00 (42.70 to 43.70): VN059228.D (-1198) (-)

Ion 87.00 (86.70 to 87.70): VN059228.D (-1198) (-)

Ion 59.00 (58.70 to 59.70): VN059228.D (-1198) (-)





#23

Vinyl Acetate

Concen: 109.549 ug/l

RT: 5.87 min Scan# 1274

Delta R.T. 0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Instrument :

MSVOA_N

ClientSampleId :

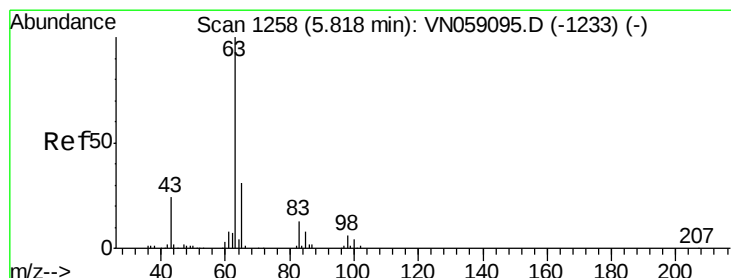
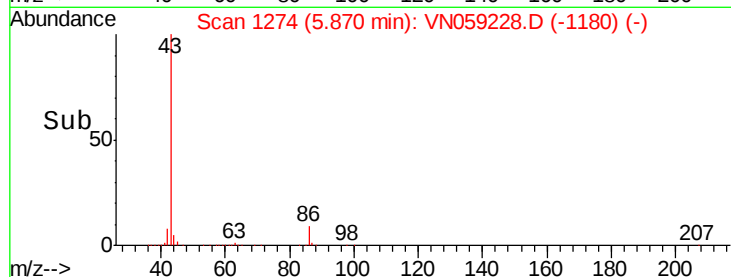
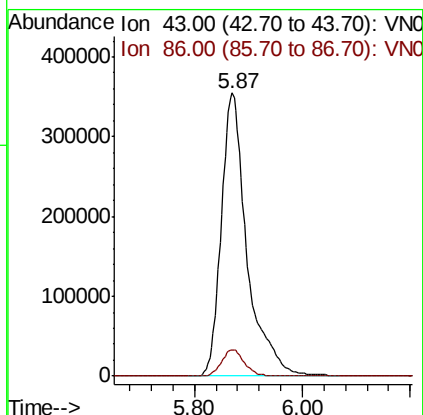
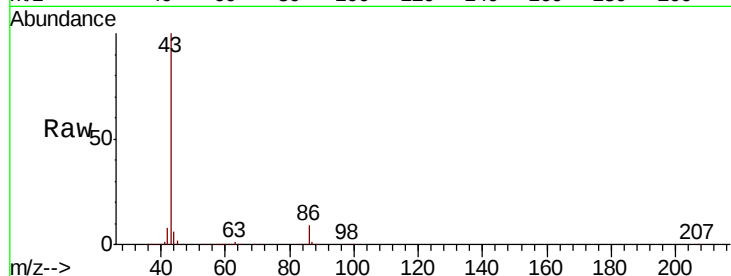
VN1114MBS01

Tot Ion: 43 Resp: 1172227

Ion Ratio Lower Upper

43 100

86 9.2 7.7 11.5



#24

1,1-Dichloroethane

Concen: 20.010 ug/l

RT: 5.82 min Scan# 1260

Delta R.T. 0.01 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

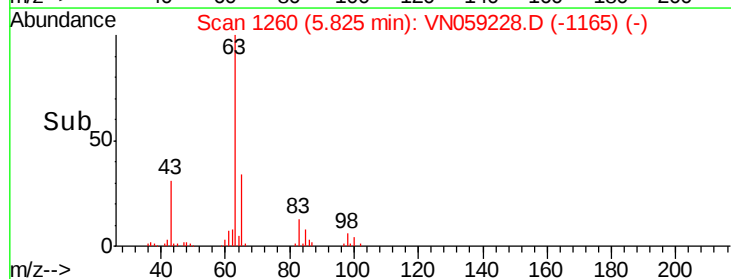
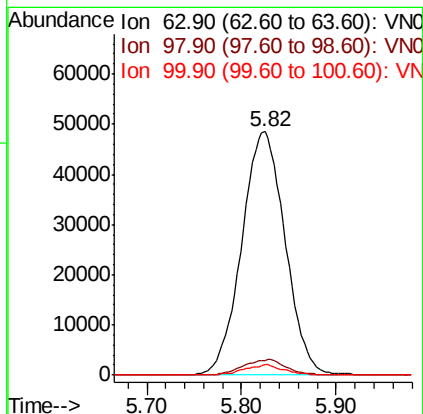
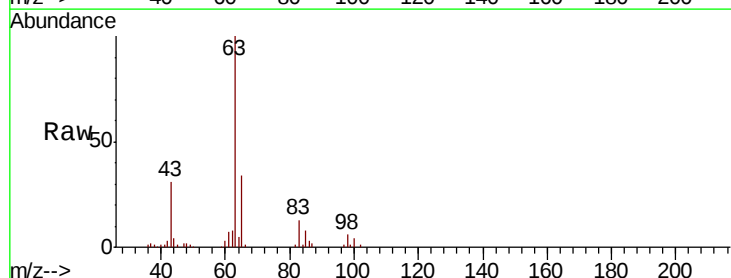
Tgt Ion: 63 Resp: 154306

Ion Ratio Lower Upper

63 100

98 6.1 2.8 8.4

100 4.2 1.9 5.7





#25

2-Butanone

Concen: 103.650 ug/l

RT: 6.81 min Scan# 1567

Delta R.T. 0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Instrument :

MSVOA_N

ClientSampleId :

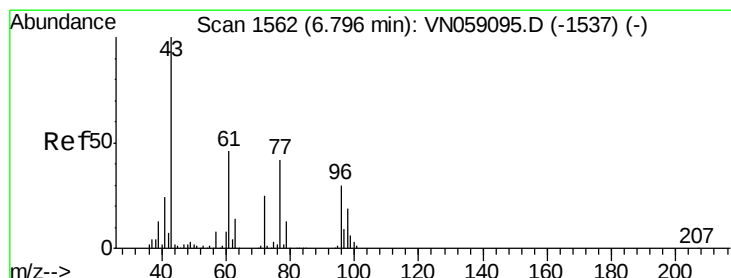
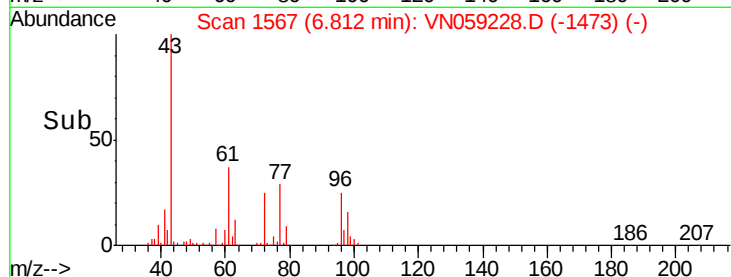
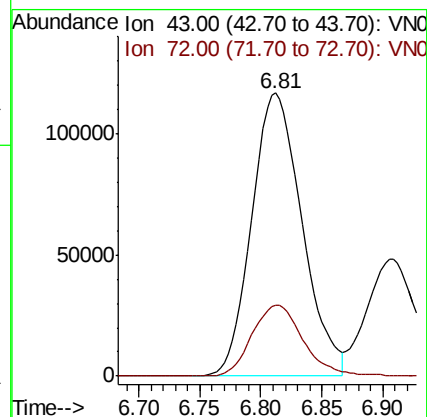
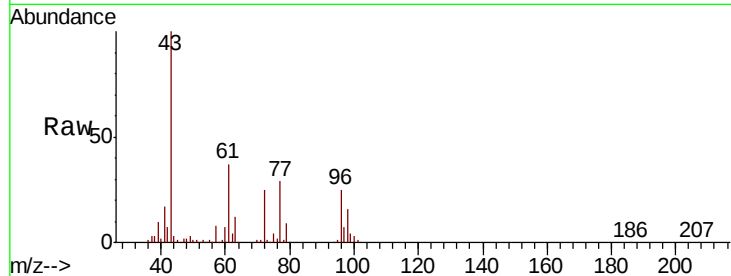
VN1114MBS01

Tot Ion: 43 Resp: 333108

Ion Ratio Lower Upper

43 100

72 25.0 20.3 30.5



#26

2,2-Dichloropropane

Concen: 18.954 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. 0.01 min

Lab File: VN059228.D

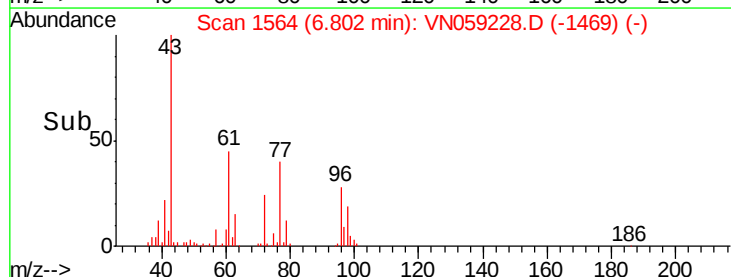
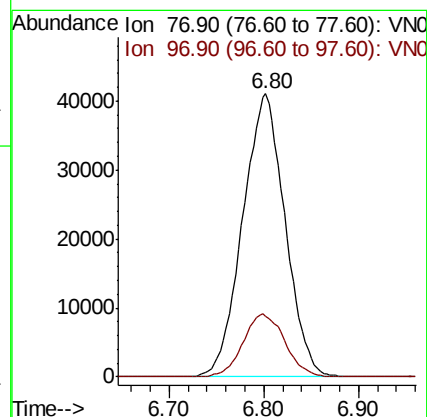
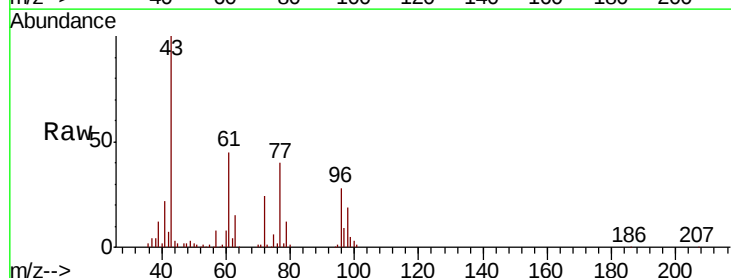
Acq: 14 Nov 2019 13:09

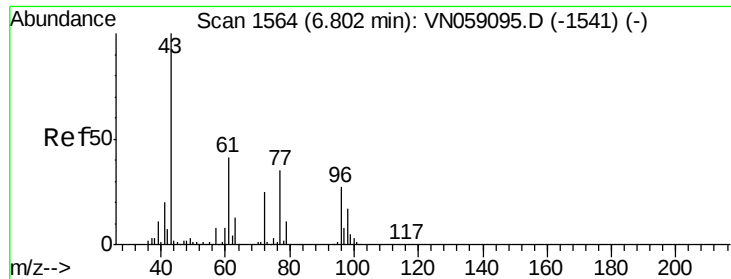
Tgt Ion: 77 Resp: 127805

Ion Ratio Lower Upper

77 100

97 21.9 11.2 33.6





#27

cis-1,2-Dichloroethene

Concen: 19.926 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. 0.01 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Instrument :

MSVOA_N

ClientSampleId :

VN1114MBS01

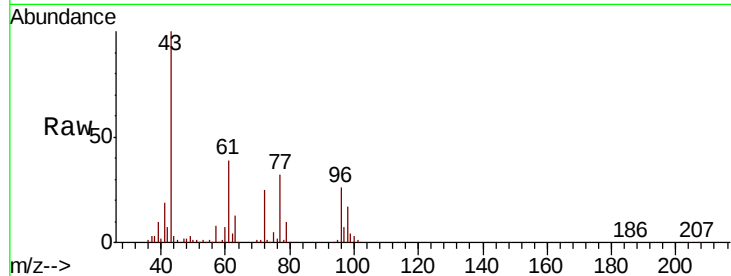
Tot Ion: 96 Resp: 88300

Ion Ratio Lower Upper

96 100

61 154.4 0.0 311.6

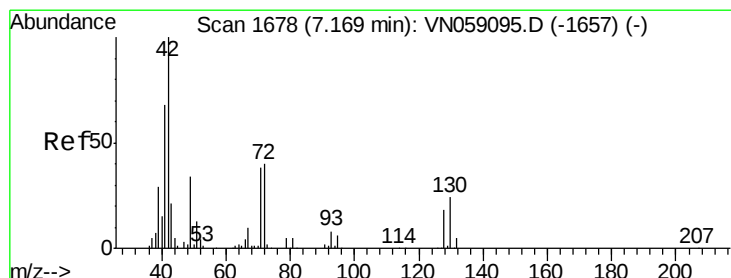
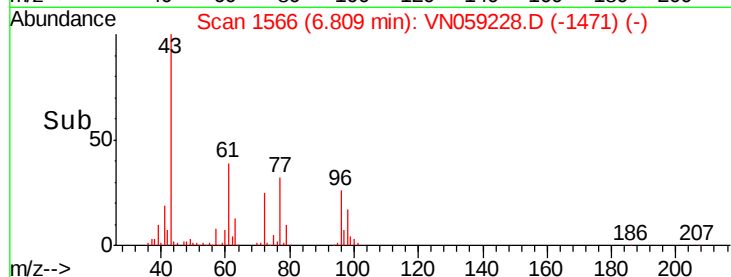
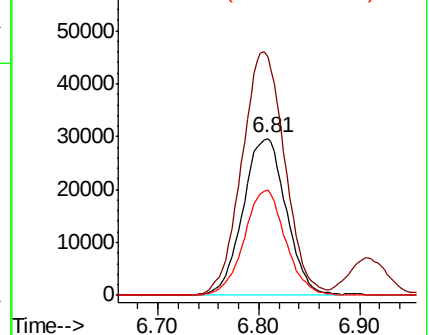
98 64.0 0.0 129.8



Abundance Ion 95.90 (95.60 to 96.60): VN059228.D (-1541) (-)

Ion 60.90 (60.60 to 61.60): VN059228.D (-1541) (-)

Ion 97.90 (97.60 to 98.60): VN059228.D (-1541) (-)



#28

Bromochloromethane

Concen: 21.142 ug/l

RT: 7.17 min Scan# 1679

Delta R.T. 0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

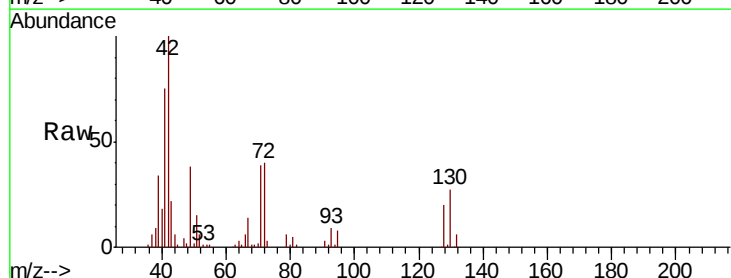
Tgt Ion: 49 Resp: 49051

Ion Ratio Lower Upper

49 100

129 1.3 0.0 3.8

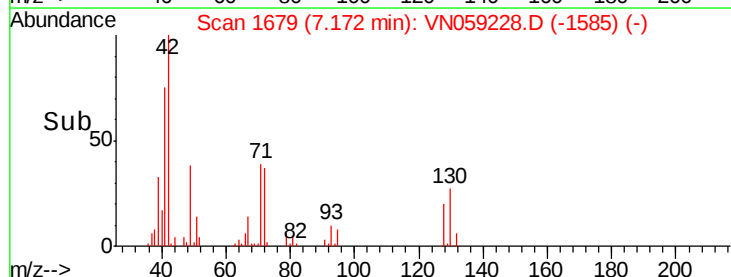
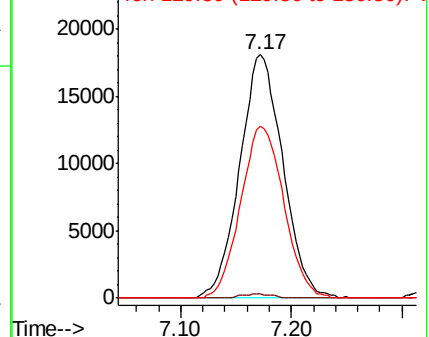
130 70.5 55.6 83.4

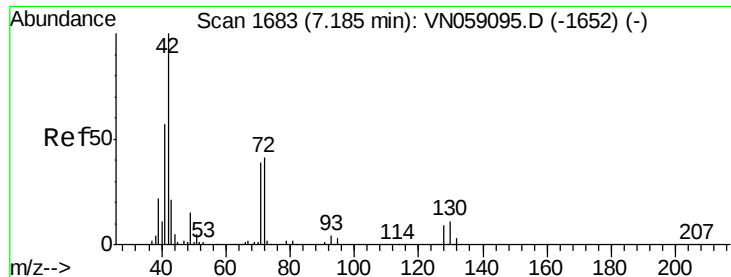


Abundance Ion 48.90 (48.60 to 49.60): VN059228.D (-1585) (-)

Ion 128.80 (128.50 to 129.50): VN059228.D (-1585) (-)

Ion 129.80 (129.50 to 130.50): VN059228.D (-1585) (-)

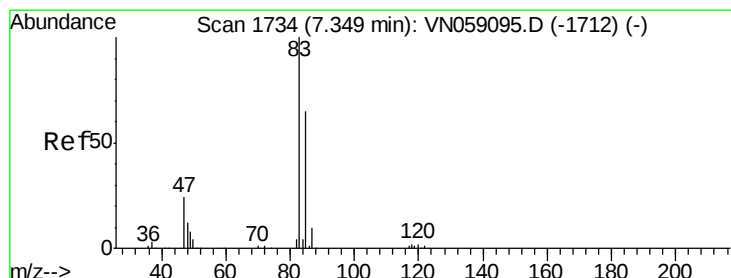
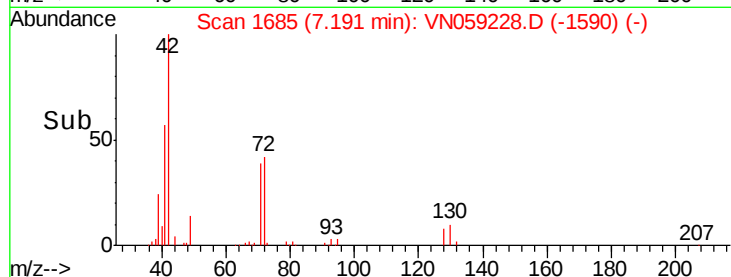
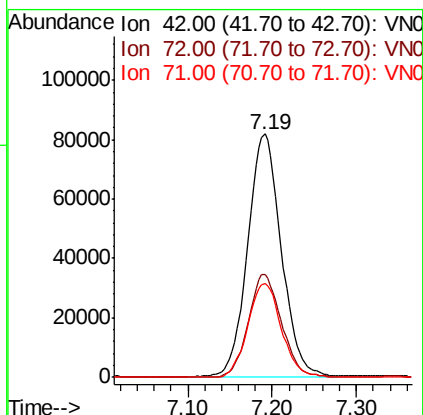
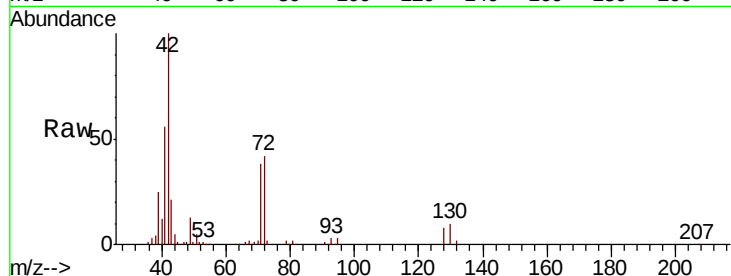




#29
Tetrahydrofuran
Concen: 111.949 ug/l
RT: 7.19 min Scan# 1685
Delta R.T. 0.01 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

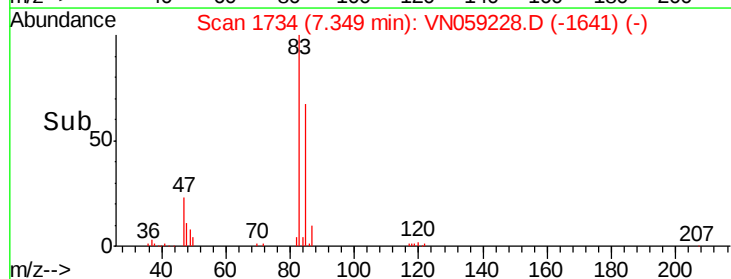
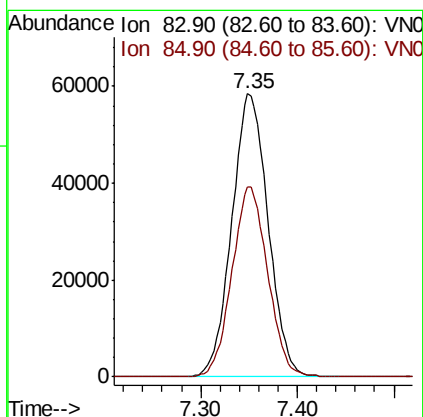
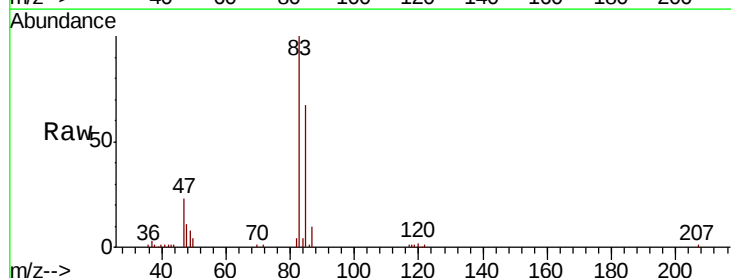
Instrument :
MSVOA_N
ClientSampled :
VN1114MBS01

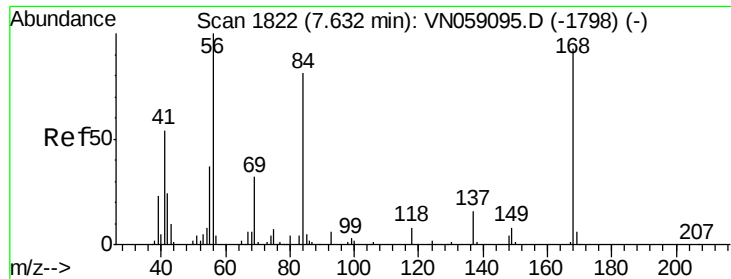
Tot Ion	Ratio	Lower	Upper
42	100		
72	41.3	33.1	49.7
71	38.3	30.9	46.3



#30
Chloroform
Concen: 20.639 ug/l
RT: 7.35 min Scan# 1734
Delta R.T. -0.00 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.9	51.8	77.8

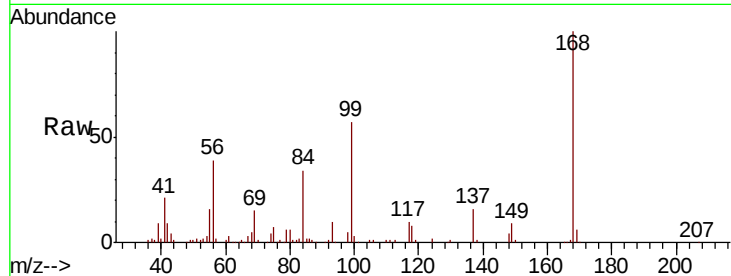




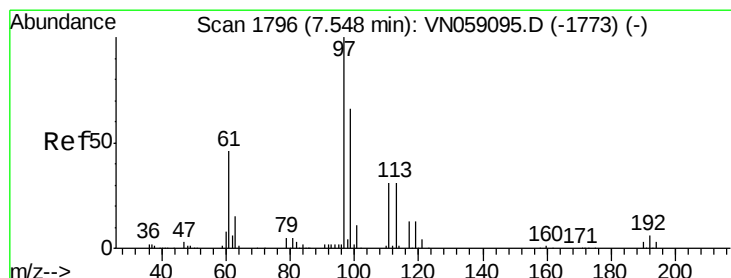
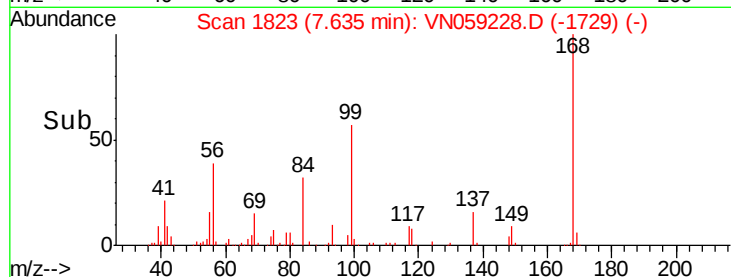
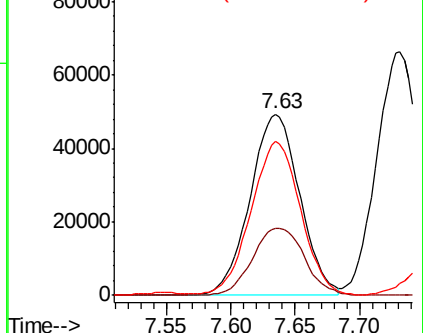
#31
Cyclohexane
Concen: 18.056 ug/l
RT: 7.63 min Scan# 1823
Delta R.T. 0.00 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

Instrument :
MSVOA_N
ClientSampleId :
VN1114MBS01

Tot Ion: 56 Resp: 131811
Ion Ratio Lower Upper
56 100
69 37.1 25.8 38.8
84 84.4 65.0 97.4

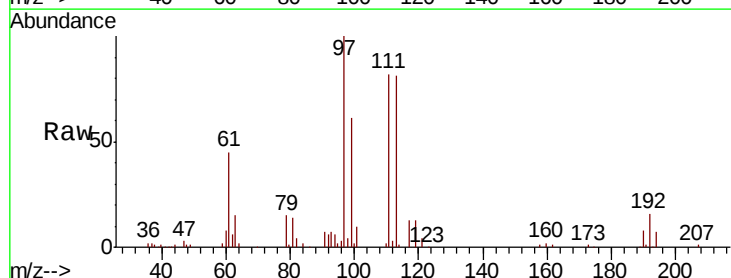


Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO

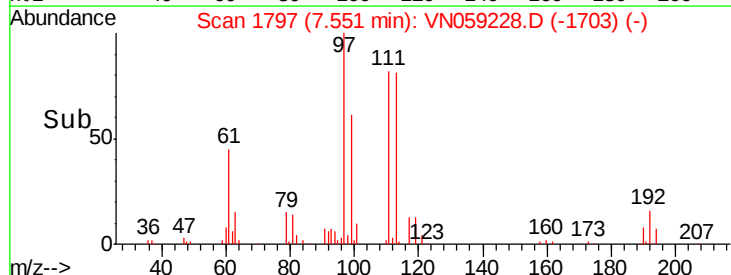
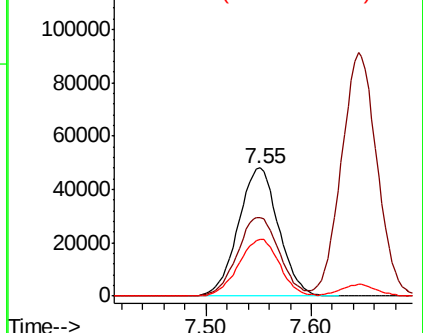


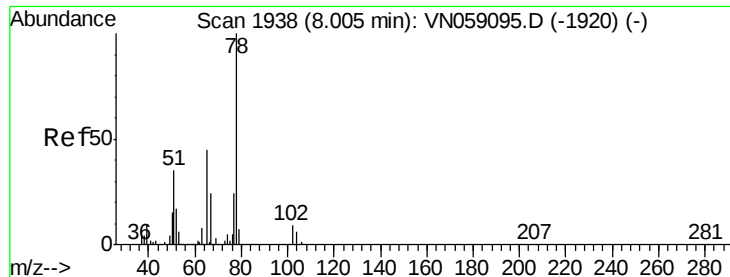
#32
1,1,1-Trichloroethane
Concen: 20.592 ug/l
RT: 7.55 min Scan# 1797
Delta R.T. 0.00 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

Tgt Ion: 97 Resp: 128068
Ion Ratio Lower Upper
97 100
99 63.4 51.0 76.6
61 44.8 35.8 53.8



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

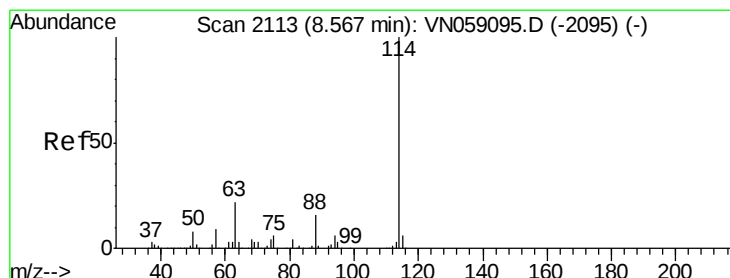
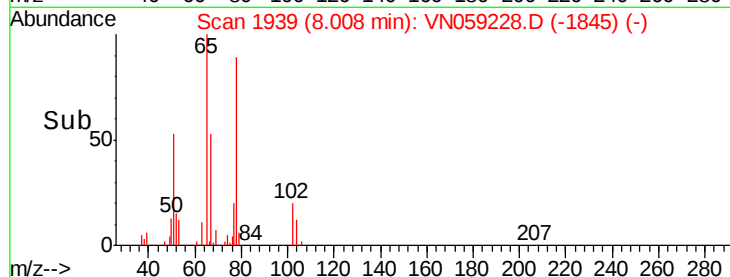
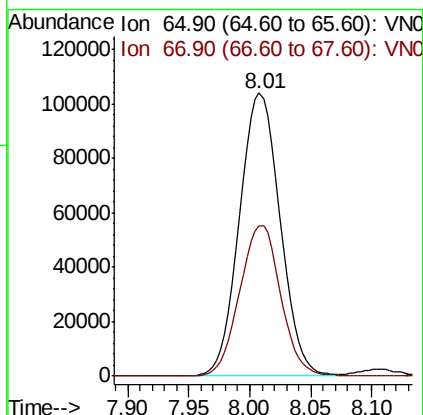
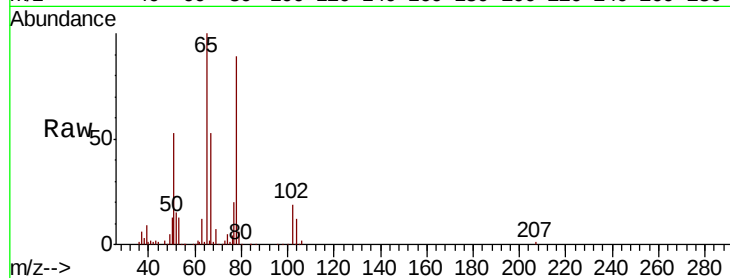




#33
 1,2-Dichloroethane-d4
 Concen: 51.281 ug/l
 RT: 8.01 min Scan# 1939
 Delta R.T. 0.00 min
 Lab File: VN059228.D
 Acq: 14 Nov 2019 13:09

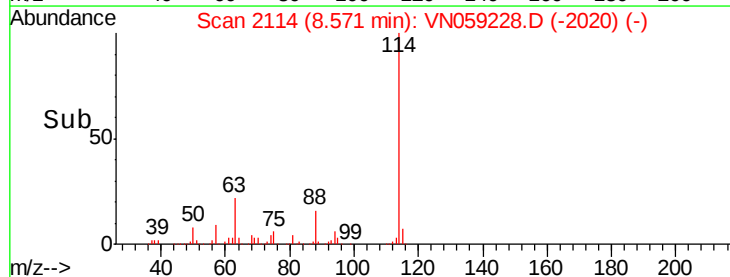
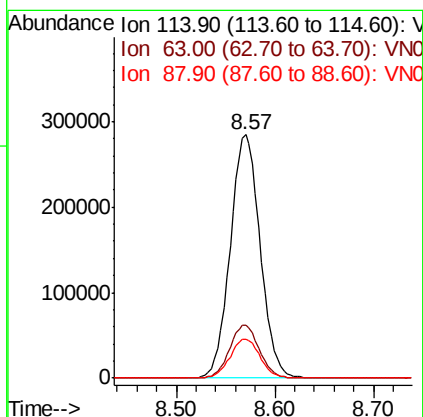
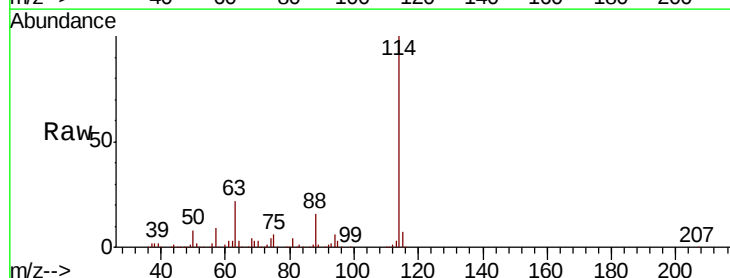
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1114MBS01

Tot Ion: 65 Resp: 240469
 Ion Ratio Lower Upper
 65 100
 67 53.6 0.0 107.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2114
 Delta R.T. 0.00 min
 Lab File: VN059228.D
 Acq: 14 Nov 2019 13:09

Tgt Ion: 114 Resp: 600140
 Ion Ratio Lower Upper
 114 100
 63 21.6 0.0 43.4
 88 15.8 0.0 32.2

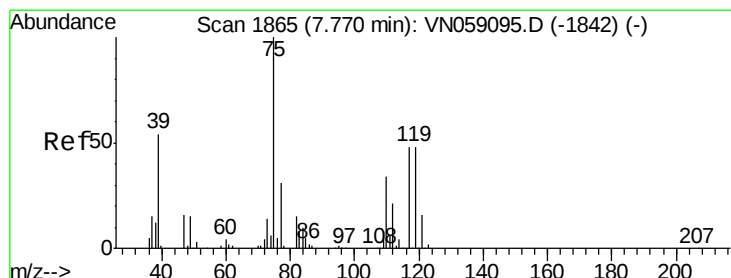
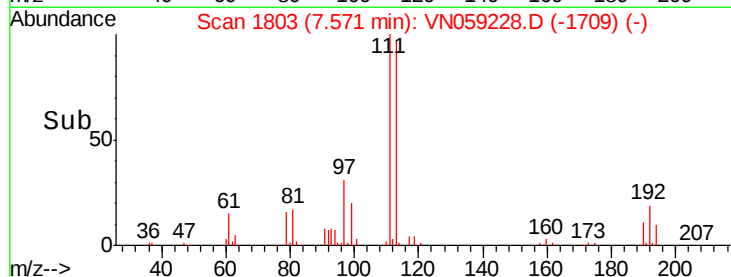
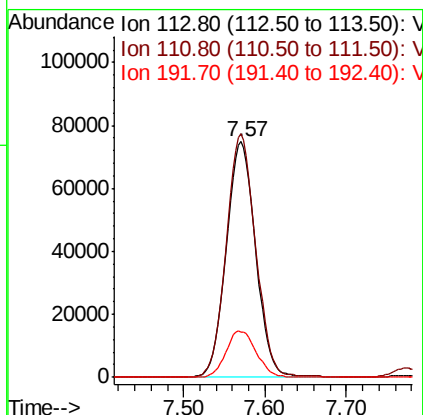
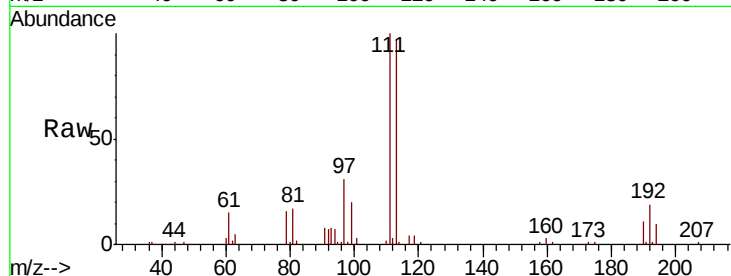




#35
Dibromofluoromethane
Concen: 52.903 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. 0.00 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

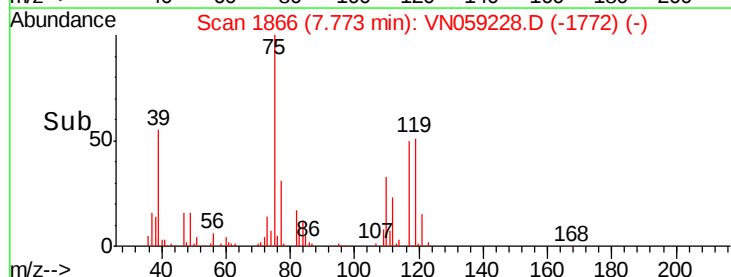
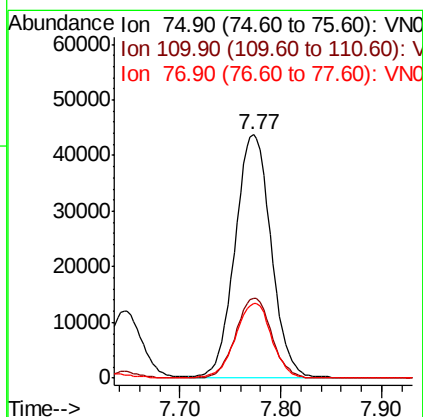
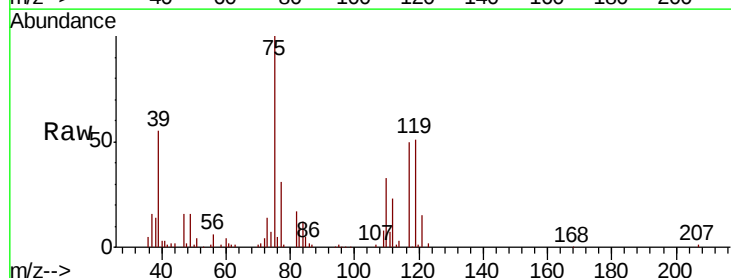
Instrument :
MSVOA_N
ClientSampleId :
VN1114MBS01

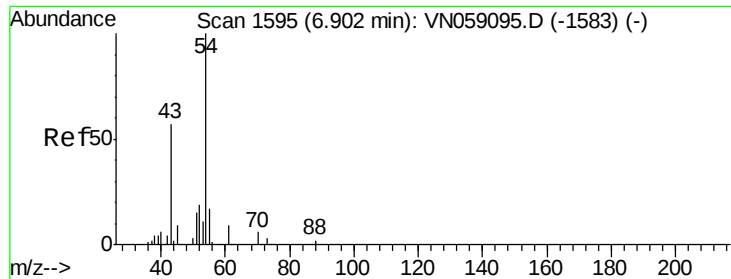
Tot Ion:113 Resp: 189573
Ion Ratio Lower Upper
113 100
111 102.8 82.8 124.2
192 20.1 16.1 24.1



#36
1,1-Dichloropropene
Concen: 19.391 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

Tgt Ion: 75 Resp: 108774
Ion Ratio Lower Upper
75 100
110 32.6 17.1 51.2
77 30.9 24.8 37.2

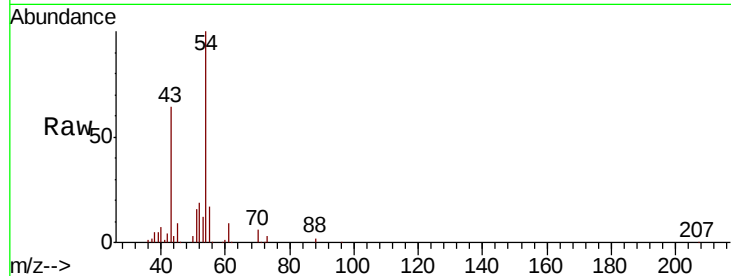




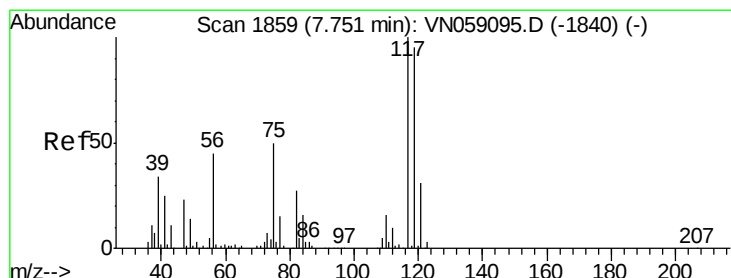
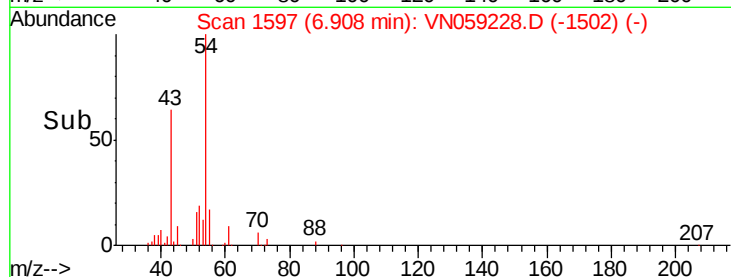
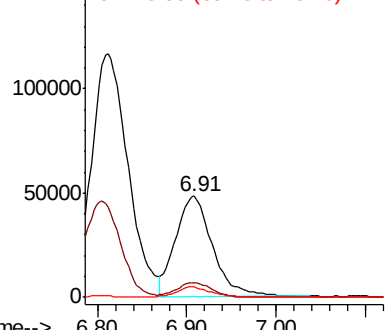
#37
Ethyl Acetate
Concen: 22.121 ug/l
RT: 6.91 min Scan# 1597
Delta R.T. 0.01 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

Instrument :
MSVOA_N
ClientSampled :
VN1114MBS01

Tot Ion: 43 Resp: 138045
Ion Ratio Lower Upper
43 100
61 14.2 11.2 16.8
70 9.7 7.8 11.8

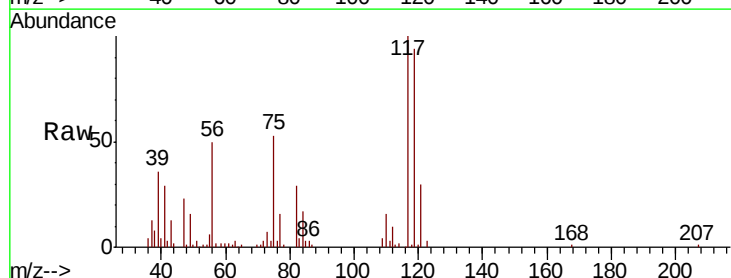


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

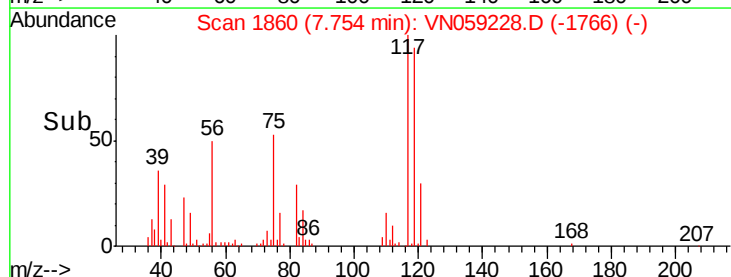
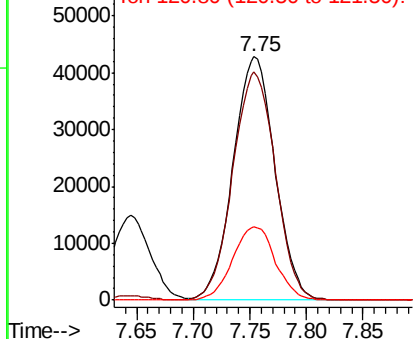


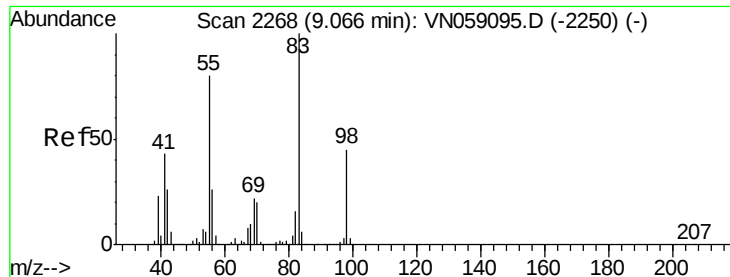
#38
Carbon Tetrachloride
Concen: 19.740 ug/l
RT: 7.75 min Scan# 1860
Delta R.T. 0.00 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

Tgt Ion: 117 Resp: 110212
Ion Ratio Lower Upper
117 100
119 93.5 75.6 113.4
121 30.0 24.6 36.8



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

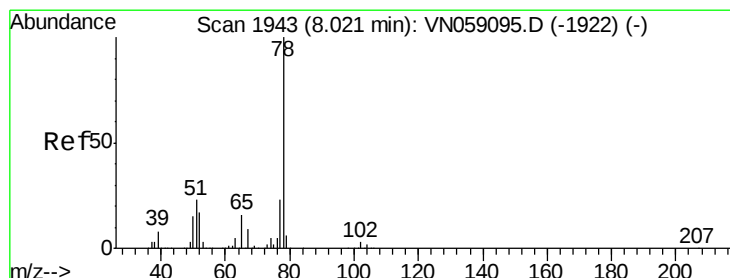
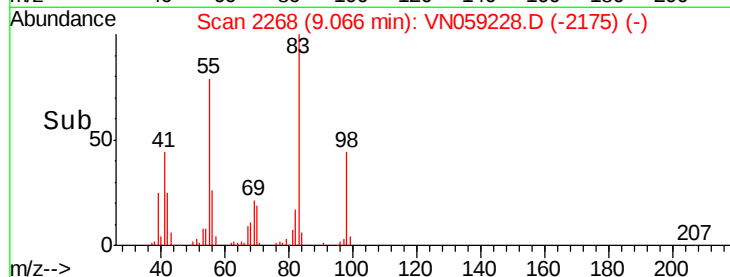
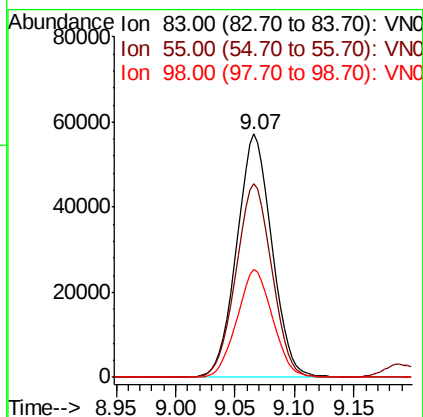
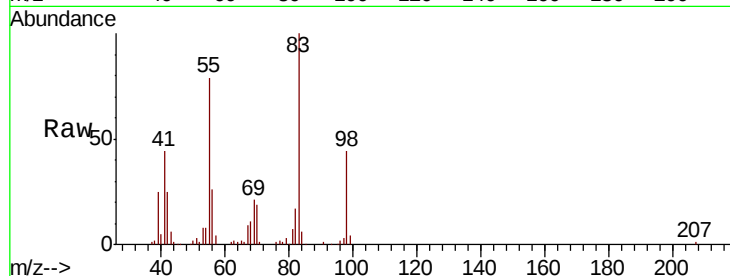




#39
Methvlcvclohexane
Concen: 17.995 ug/l
RT: 9.07 min Scan# 2268
Delta R.T. -0.00 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

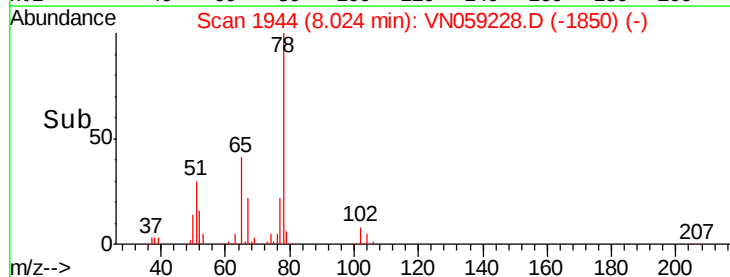
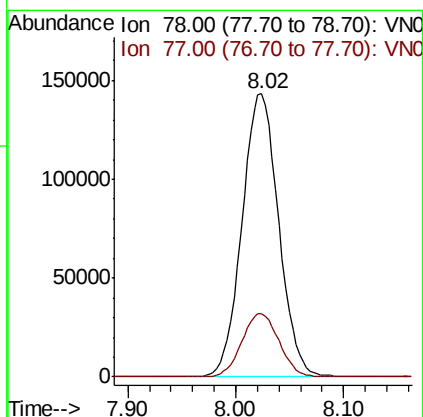
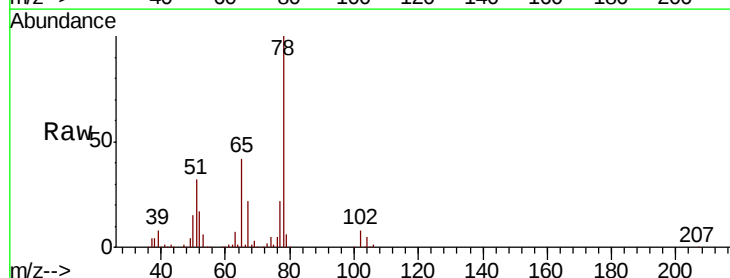
Instrument :
MSVOA_N
ClientSampleId :
VN1114MBS01

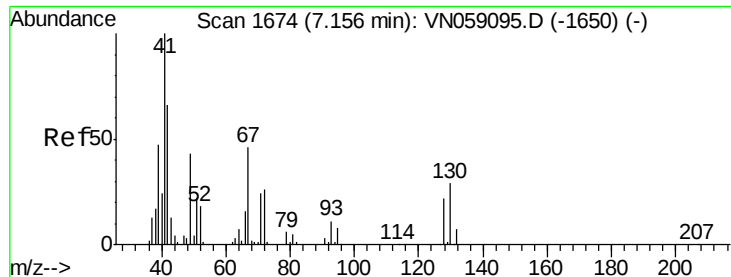
Tot Ion: 83 Resp: 117152
Ion Ratio Lower Upper
83 100
55 79.4 63.9 95.9
98 44.3 35.6 53.4



#40
Benzene
Concen: 20.022 ug/l
RT: 8.02 min Scan# 1944
Delta R.T. 0.00 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

Tgt Ion: 78 Resp: 338216
Ion Ratio Lower Upper
78 100
77 22.4 18.8 28.2

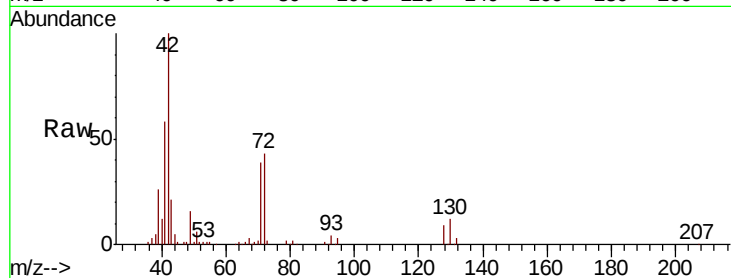




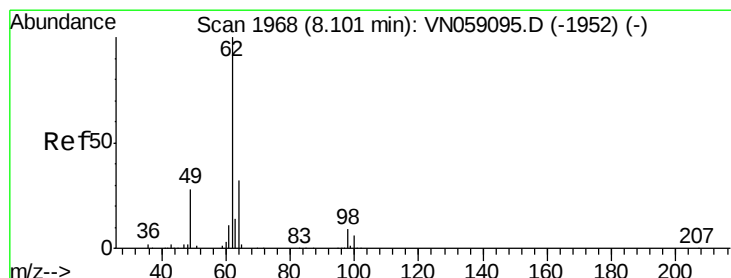
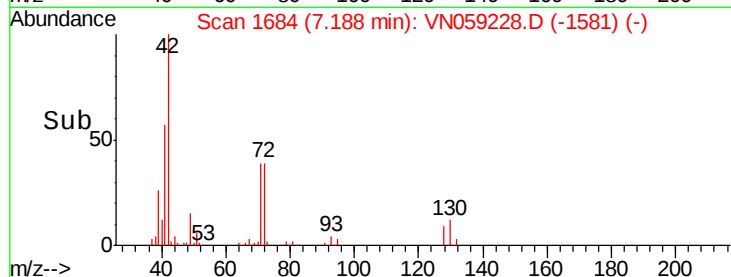
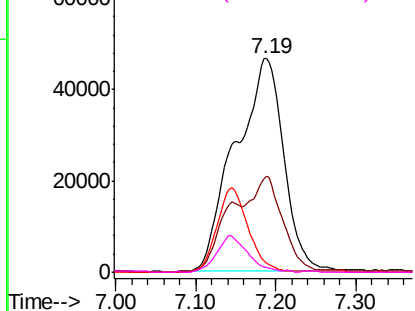
#41
Methacrylonitrile
Concen: 71.436 ug/l
RT: 7.19 min Scan# 1684
Delta R.T. 0.03 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

Instrument :
MSVOA_N
ClientSampled :
VN1114MBS01

Tot Ion:	41	Resp:	193851
Ion	Ratio	Lower	Upper
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0

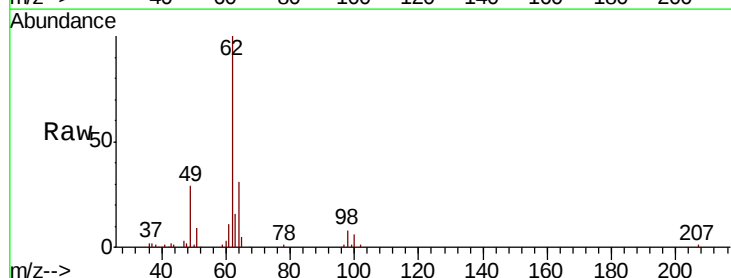


Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO
Ion 67.00 (66.70 to 67.70): VNO
Ion 52.00 (51.70 to 52.70): VNO

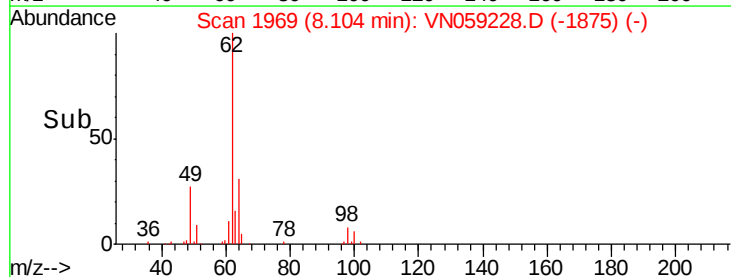
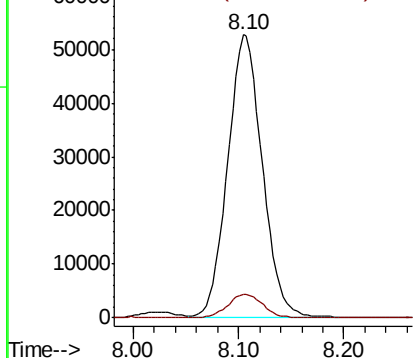


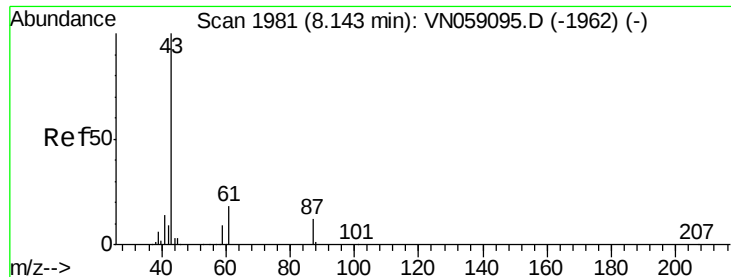
#42
1,2-Dichloroethane
Concen: 20.793 ug/l
RT: 8.10 min Scan# 1969
Delta R.T. 0.00 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

Tgt Ion:	62	Resp:	120466
Ion	Ratio	Lower	Upper
62	100		
98	8.4	0.0	17.8



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



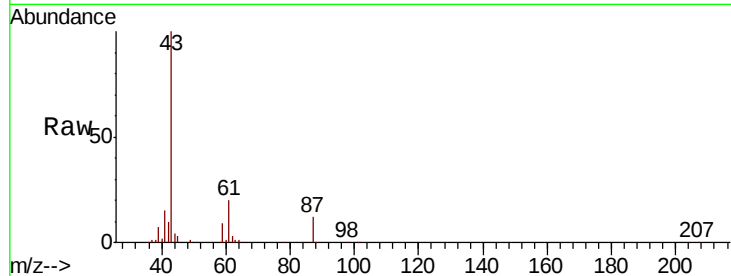


#43

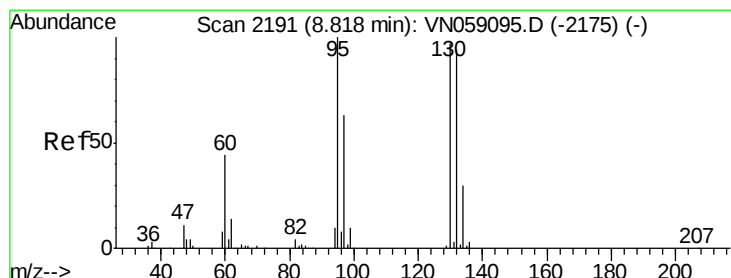
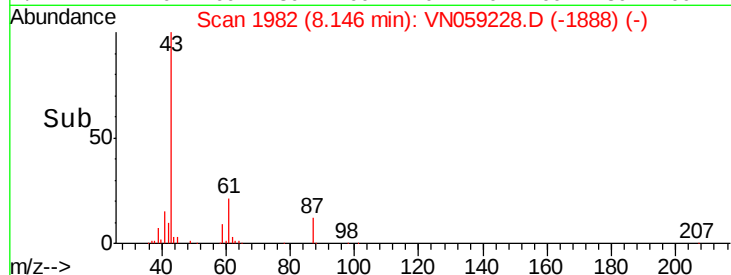
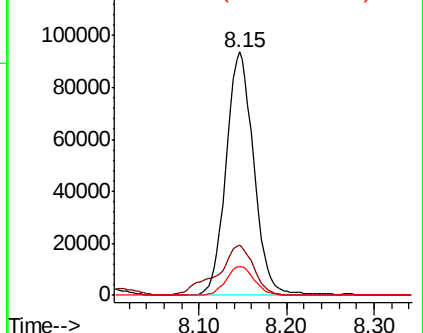
Isopropyl Acetate
 Concen: 20.554 ug/l
 RT: 8.15 min Scan# 1982
 Delta R.T. 0.00 min
 Lab File: VN059228.D
 Acq: 14 Nov 2019 13:09

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1114MBS01

Tot Ion: 43 Resp: 204493
 Ion Ratio Lower Upper
 43 100
 61 27.1 21.0 31.6
 87 12.1 9.8 14.6



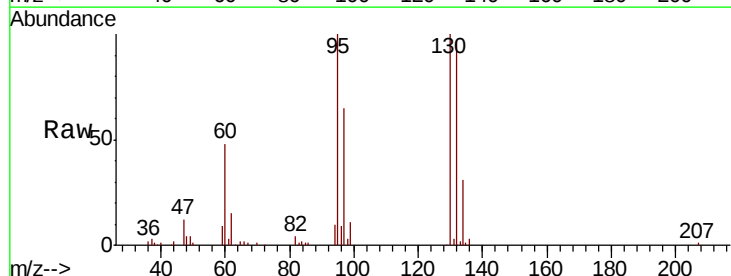
Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 61.00 (60.70 to 61.70): VN0
 Ion 87.00 (86.70 to 87.70): VN0



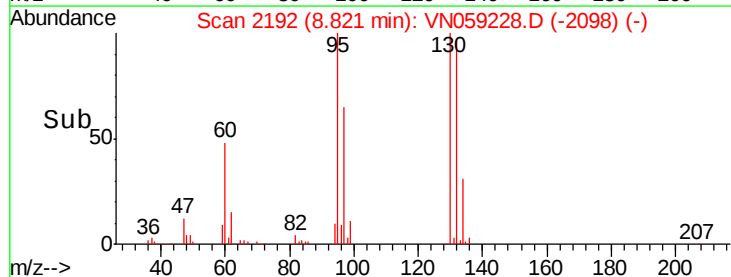
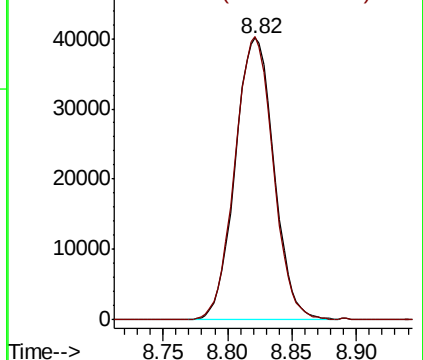
#44

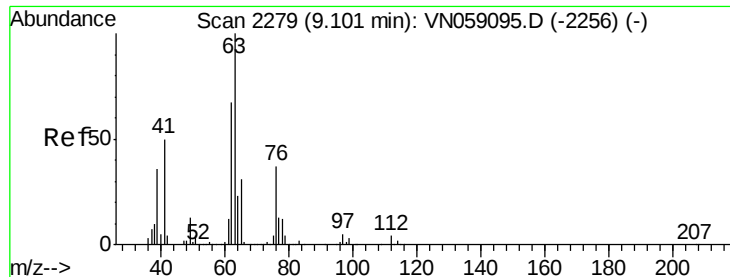
Trichloroethene
 Concen: 20.222 ug/l
 RT: 8.82 min Scan# 2192
 Delta R.T. 0.00 min
 Lab File: VN059228.D
 Acq: 14 Nov 2019 13:09

Tgt Ion: 130 Resp: 83972
 Ion Ratio Lower Upper
 130 100
 95 100.5 0.0 206.4



Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VN0

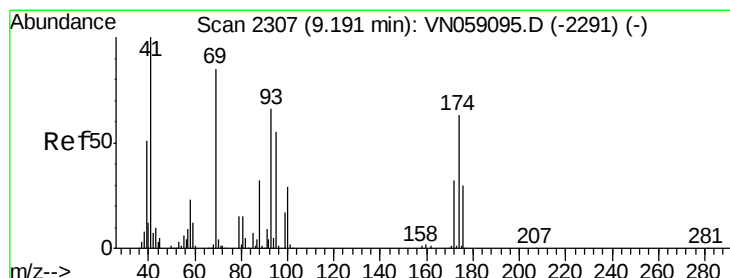
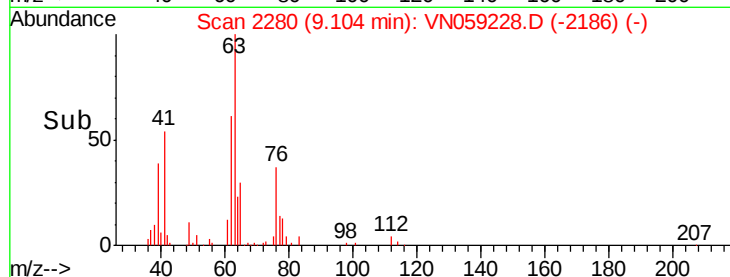
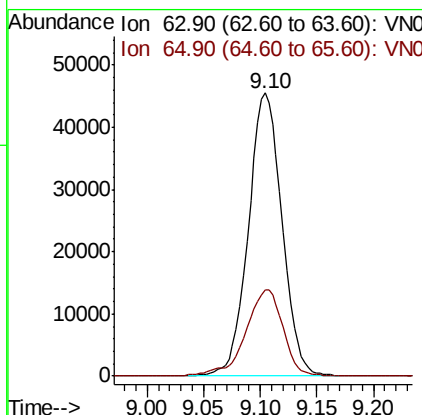
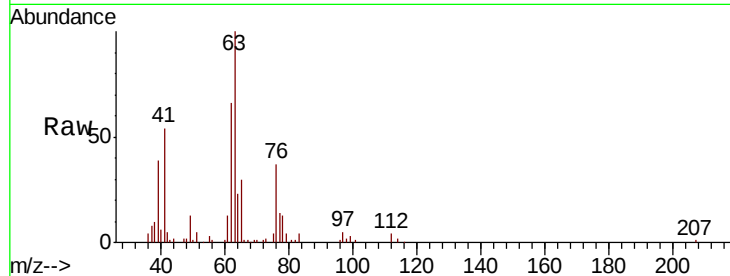




#45
 1,2-Dichloropropane
 Concen: 20.522 ug/l
 RT: 9.10 min Scan# 2280
 Delta R.T. 0.00 min
 Lab File: VN059228.D
 Acq: 14 Nov 2019 13:09

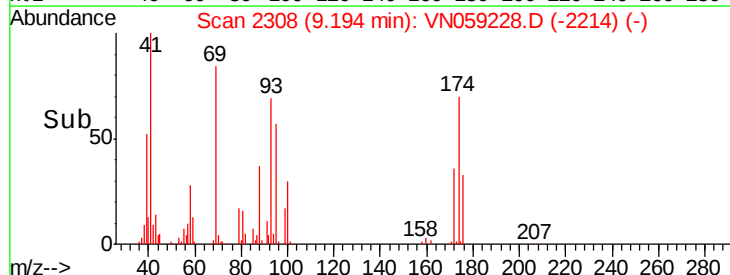
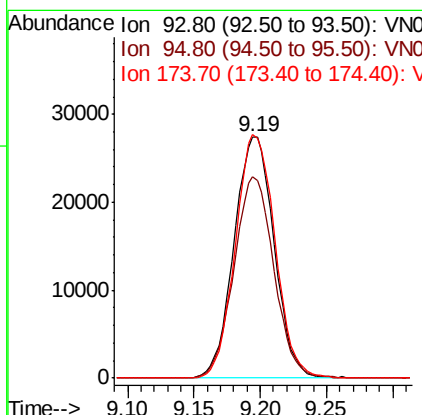
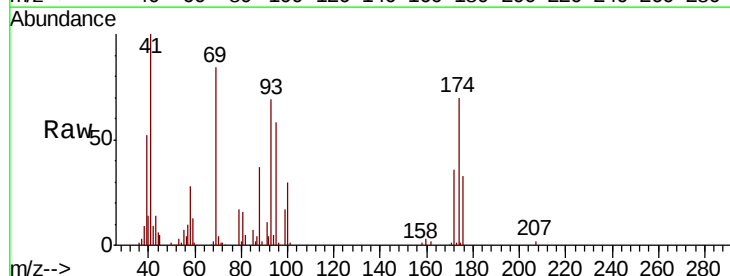
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1114MBS01

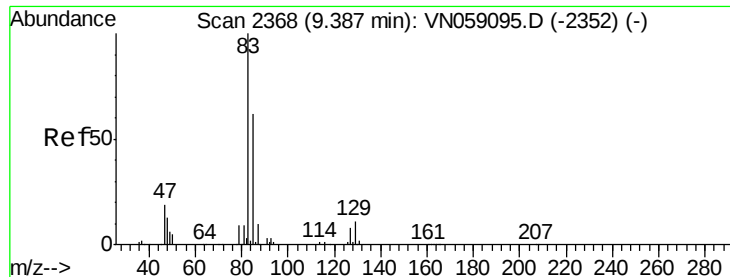
Tot Ion: 63 Resp: 94161
 Ion Ratio Lower Upper
 63 100
 65 30.3 24.6 37.0



#46
 Dibromomethane
 Concen: 20.130 ug/l
 RT: 9.19 min Scan# 2308
 Delta R.T. 0.00 min
 Lab File: VN059228.D
 Acq: 14 Nov 2019 13:09

Tgt Ion: 93 Resp: 57554
 Ion Ratio Lower Upper
 93 100
 95 83.4 66.6 100.0
 174 99.8 78.2 117.2





#47

Bromodichloromethane

Concen: 20.596 ug/l

RT: 9.39 min Scan# 2369

Delta R.T. 0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Instrument :

MSVOA_N

ClientSampleId :

VN1114MBS01

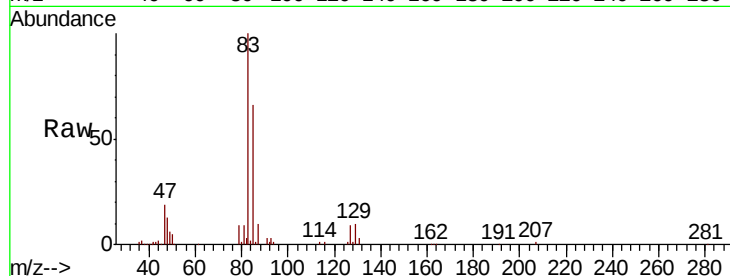
Tot Ion: 83 Resp: 117588

Ion Ratio Lower Upper

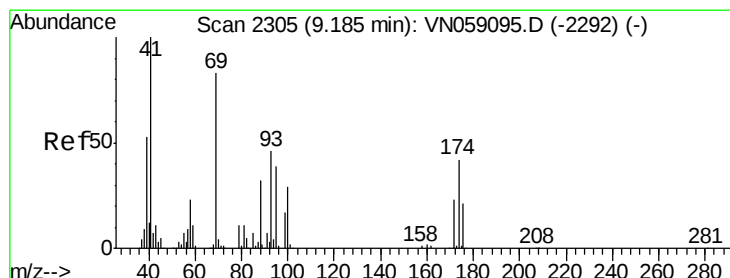
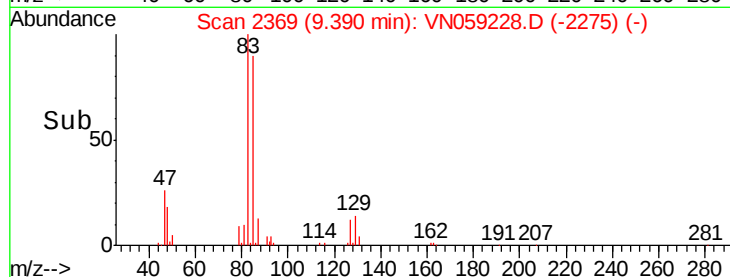
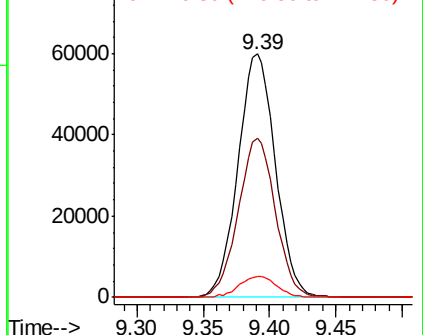
83 100

85 65.6 49.7 74.5

127 8.5 6.4 9.6



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



#48

Methyl methacrylate

Concen: 20.648 ug/l

RT: 9.18 min Scan# 2305

Delta R.T. -0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

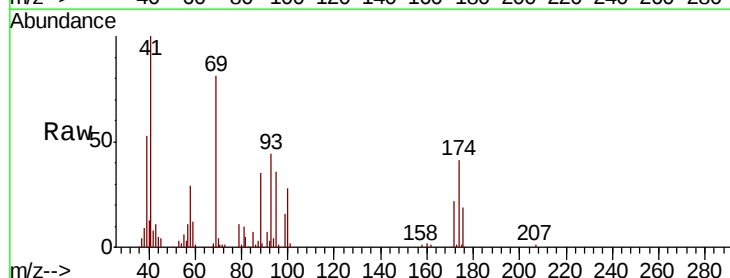
Tgt Ion: 41 Resp: 91886

Ion Ratio Lower Upper

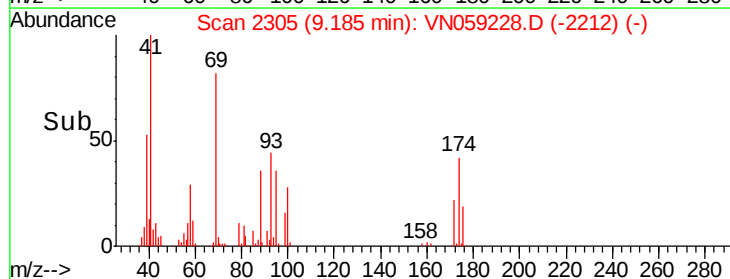
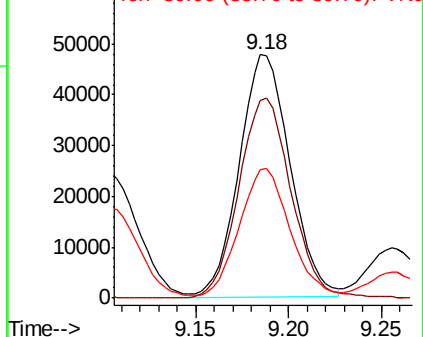
41 100

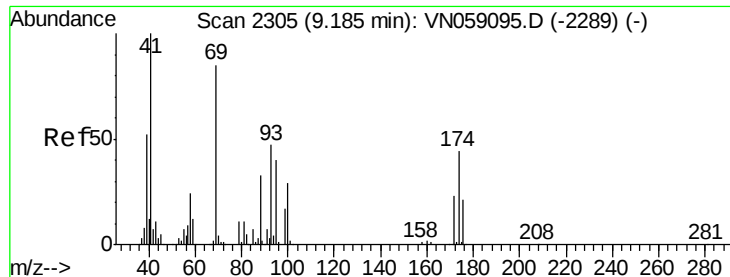
69 84.6 67.3 100.9

39 52.8 43.3 64.9



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

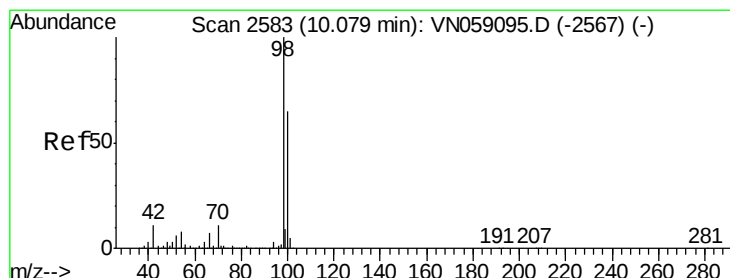
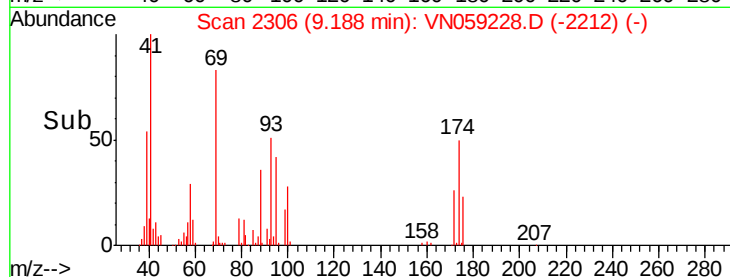
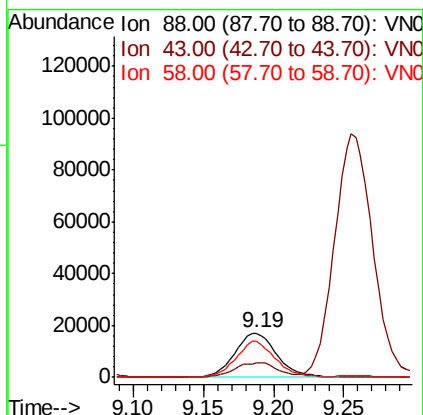
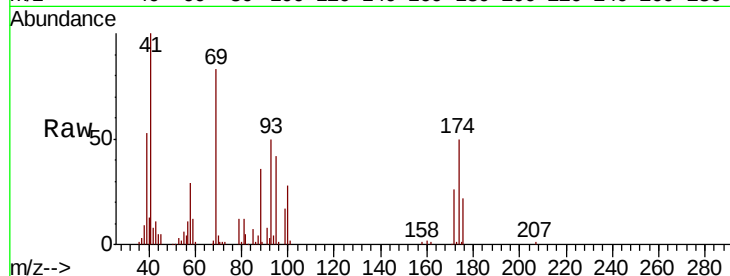




#49
1,4-Dioxane
Concen: 447.355 ug/l
RT: 9.19 min Scan# 2306
Delta R.T. 0.00 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

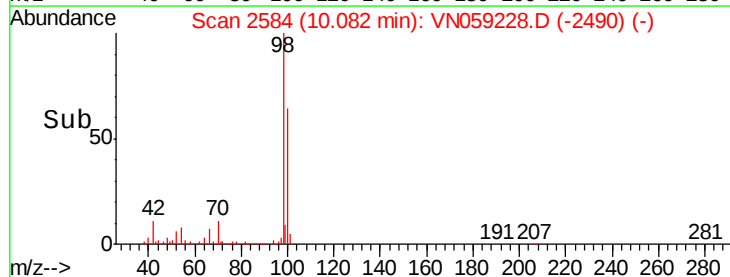
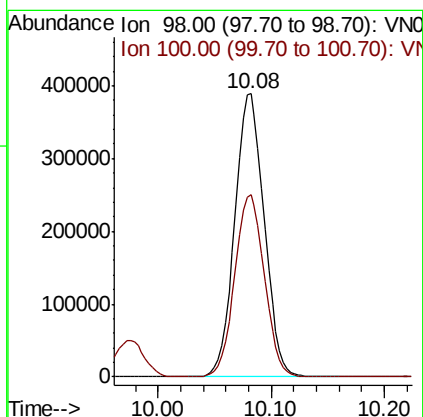
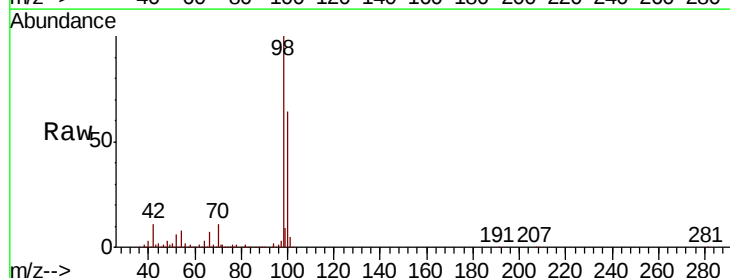
Instrument :
MSVOA_N
ClientSampleId :
VN1114MBS01

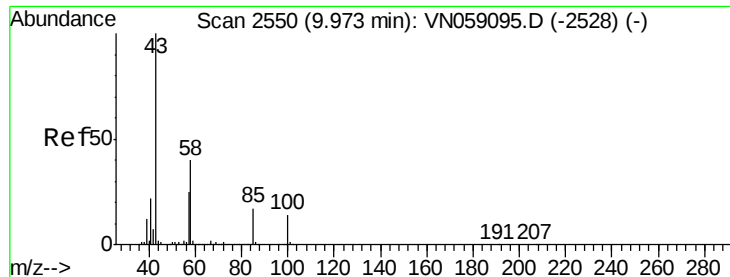
Tot Ion: 88 Resp: 35379
Ion Ratio Lower Upper
88 100
43 32.3 26.3 39.5
58 77.5 60.6 90.8



#50
Toluene-d8
Concen: 49.986 ug/l
RT: 10.08 min Scan# 2584
Delta R.T. 0.00 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

Tgt Ion: 98 Resp: 705538
Ion Ratio Lower Upper
98 100
100 64.7 52.2 78.2

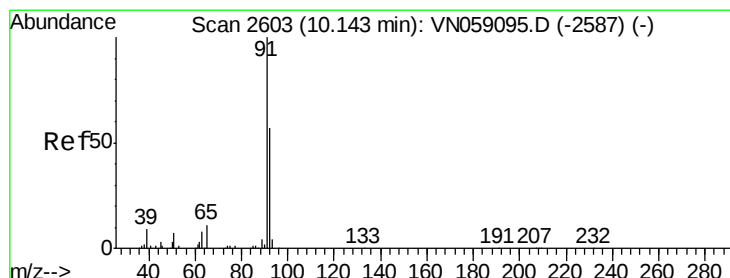
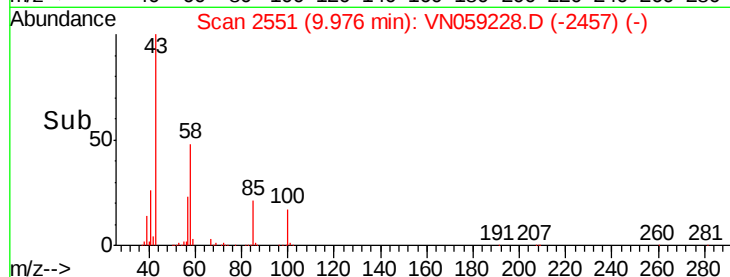
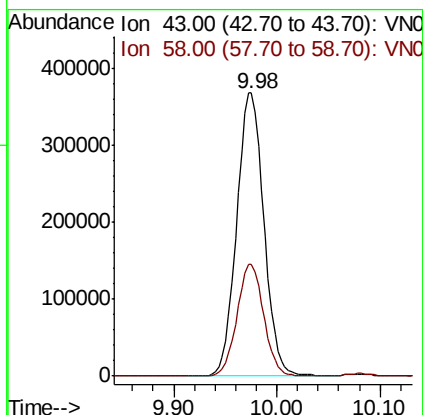
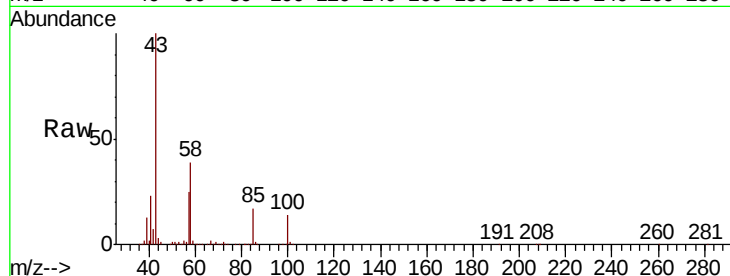




#51
4-Methyl-2-Pentanone
Concen: 119.964 ug/l
RT: 9.98 min Scan# 2551
Delta R.T. 0.00 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

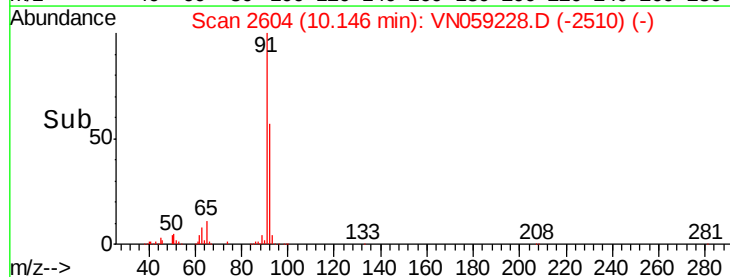
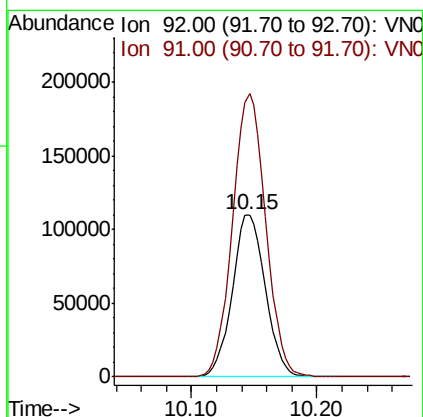
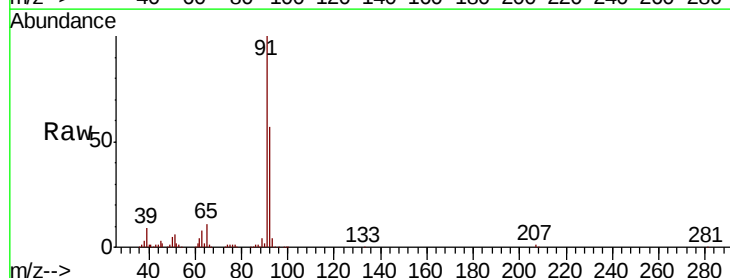
Instrument :
MSVOA_N
ClientSampleId :
VN1114MBS01

Tot Ion: 43 Resp: 675316
Ion Ratio Lower Upper
43 100
58 38.9 31.5 47.3



#52
Toluene
Concen: 19.863 ug/l
RT: 10.15 min Scan# 2604
Delta R.T. 0.00 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

Tgt Ion: 92 Resp: 201107
Ion Ratio Lower Upper
92 100
91 175.4 139.5 209.3





#53

t-1,3-Dichloropropene

Concen: 19.686 ug/l

RT: 10.37 min Scan# 2675

Delta R.T. -0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Instrument :

MSVOA_N

ClientSampleId :

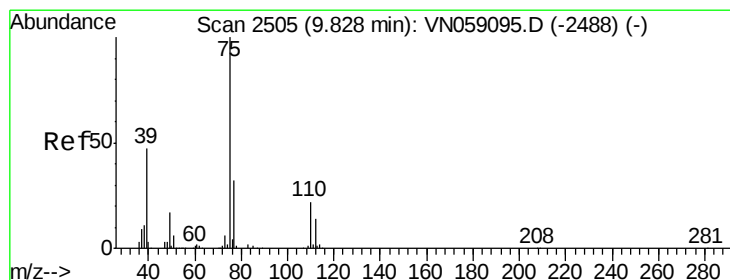
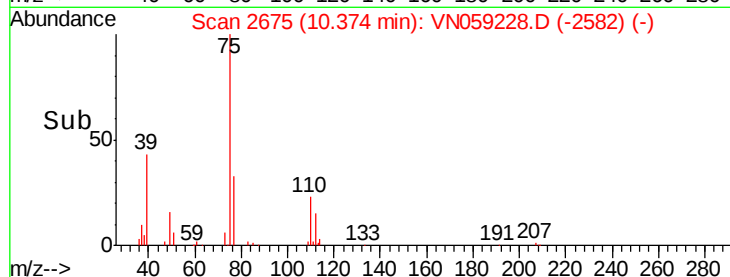
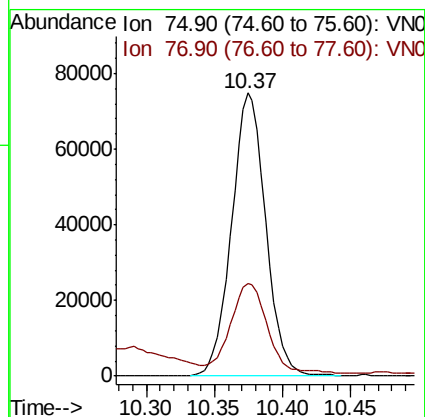
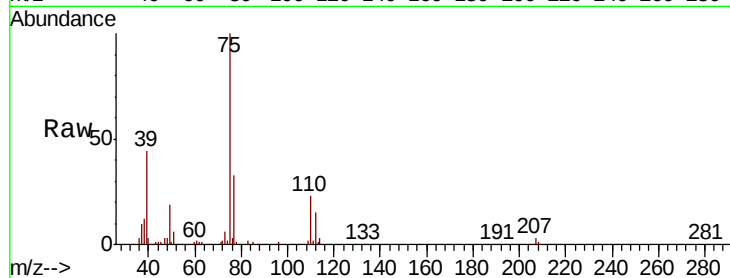
VN1114MBS01

Tot Ion: 75 Resp: 129854

Ion Ratio Lower Upper

75 100

77 31.7 25.3 37.9



#54

cis-1,3-Dichloropropene

Concen: 19.693 ug/l

RT: 9.83 min Scan# 2506

Delta R.T. 0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

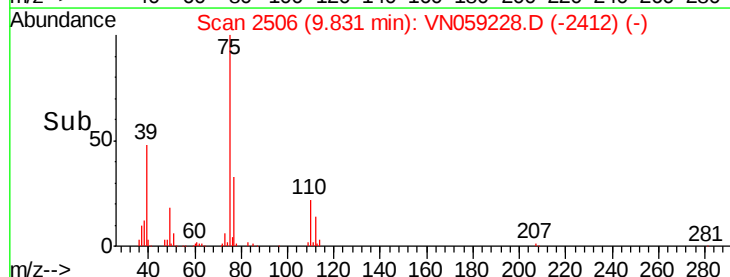
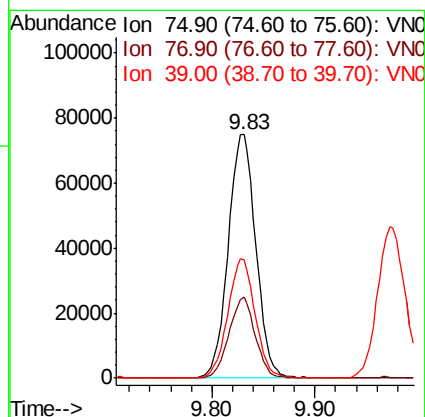
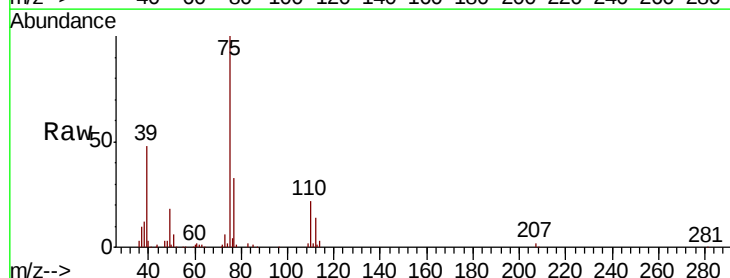
Tgt Ion: 75 Resp: 139726

Ion Ratio Lower Upper

75 100

77 33.2 25.5 38.3

39 48.4 37.3 55.9





#55

1,1,2-Trichloroethane

Concen: 20.546 ug/l

RT: 10.55 min Scan# 2731

Delta R.T. -0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Instrument :

MSVOA_N

ClientSampleId :

VN1114MBS01

Tot Ion: 97 Resp: 84188

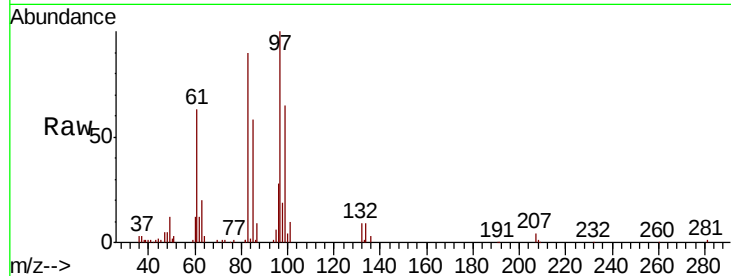
Ion Ratio Lower Upper

97 100

83 90.4 71.0 106.4

85 58.1 45.8 68.8

99 65.4 49.4 74.0

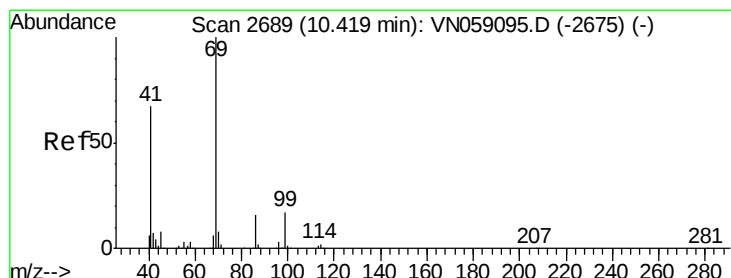
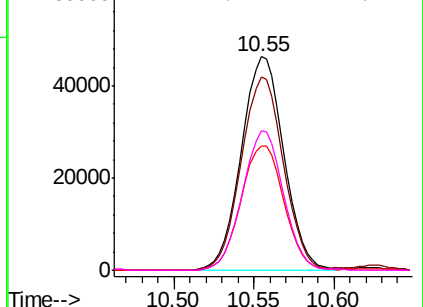
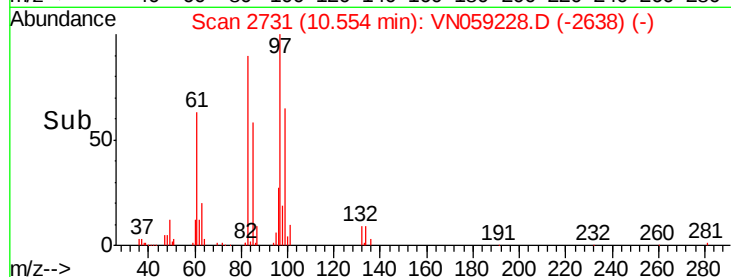


Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 98.90 (98.60 to 99.60): VN0



#56

Ethyl methacrylate

Concen: 19.283 ug/l

RT: 10.42 min Scan# 2690

Delta R.T. 0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

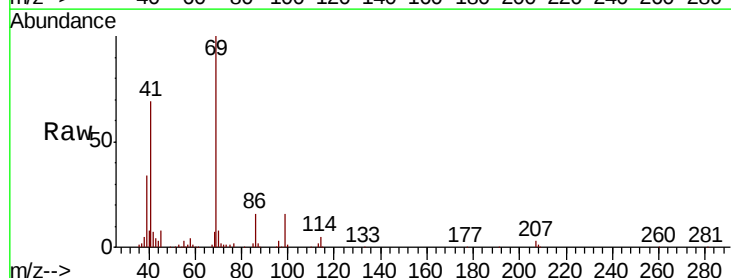
Tgt Ion: 69 Resp: 123612

Ion Ratio Lower Upper

69 100

41 68.6 53.6 80.4

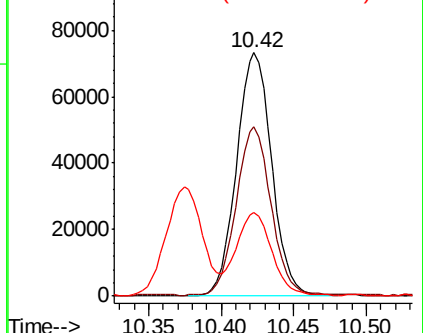
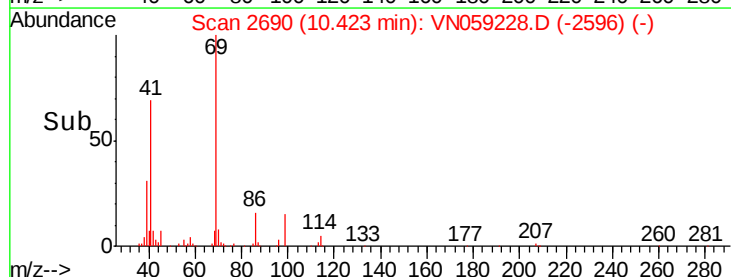
39 34.0 26.2 39.4

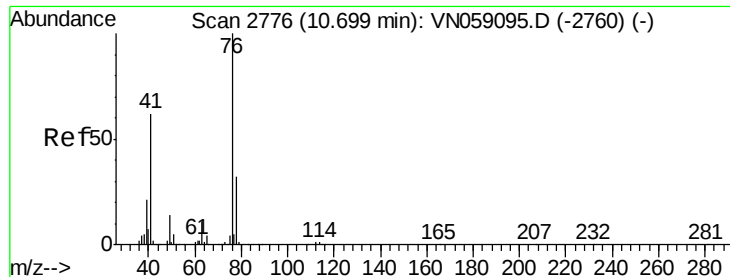


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

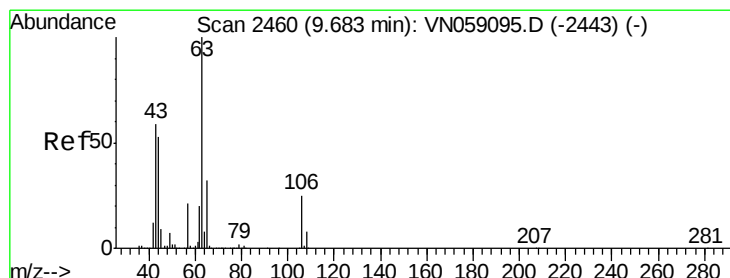
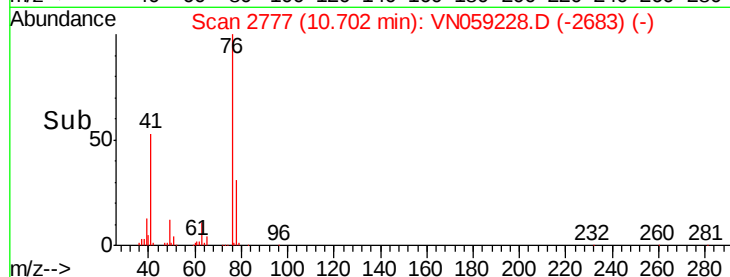
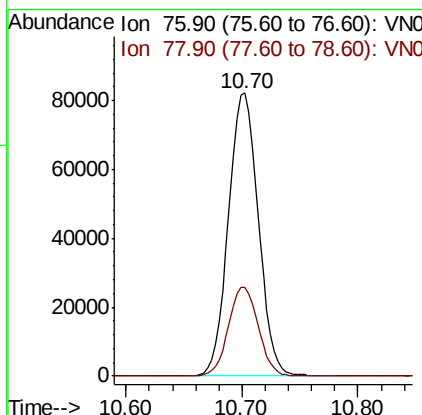
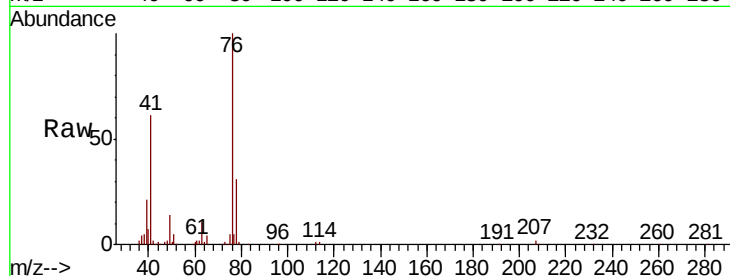




#57
 1,3-Dichloropropane
 Concen: 20.868 ug/l
 RT: 10.70 min Scan# 2777
 Delta R.T. 0.00 min
 Lab File: VN059228.D
 Acq: 14 Nov 2019 13:09

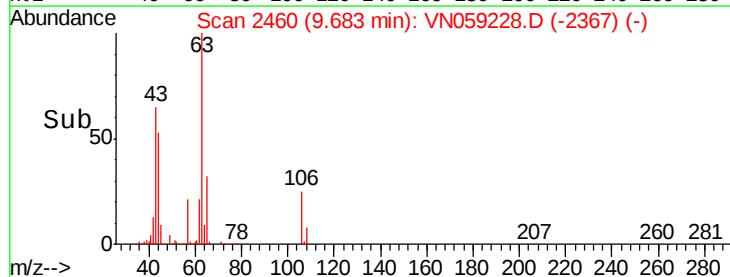
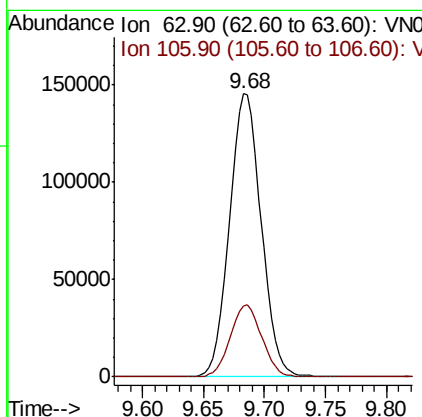
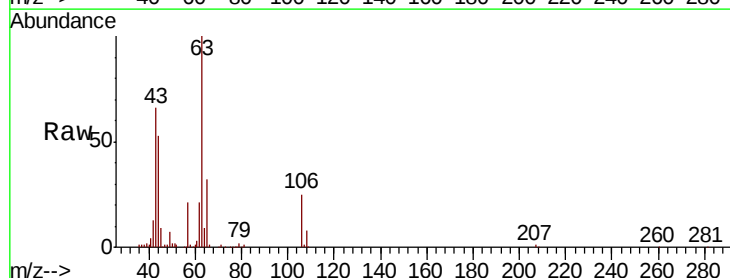
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1114MBS01

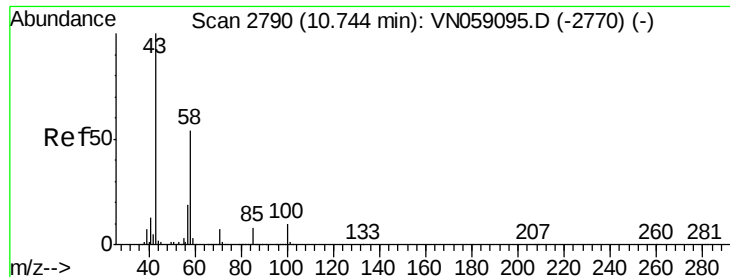
Tot Ion: 76 Resp: 147172
 Ion Ratio Lower Upper
 76 100
 78 31.3 25.8 38.8



#58
 2-Chloroethyl Vinyl ether
 Concen: 115.607 ug/l
 RT: 9.68 min Scan# 2460
 Delta R.T. -0.00 min
 Lab File: VN059228.D
 Acq: 14 Nov 2019 13:09

Tgt Ion: 63 Resp: 263632
 Ion Ratio Lower Upper
 63 100
 106 25.3 20.2 30.2

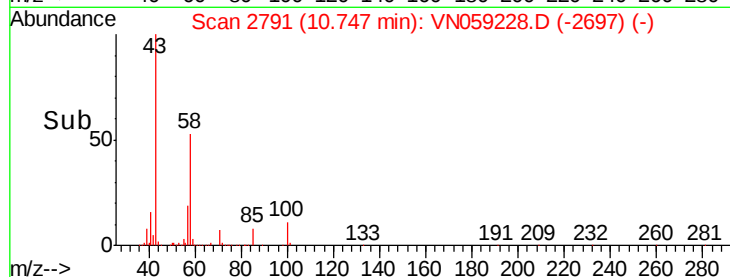
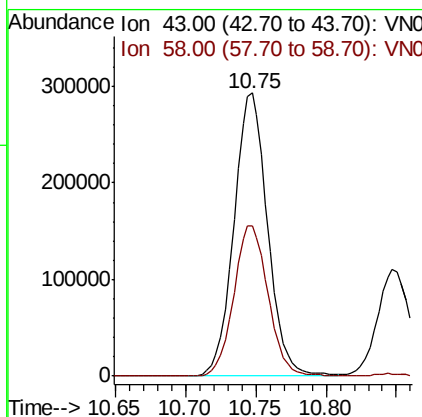
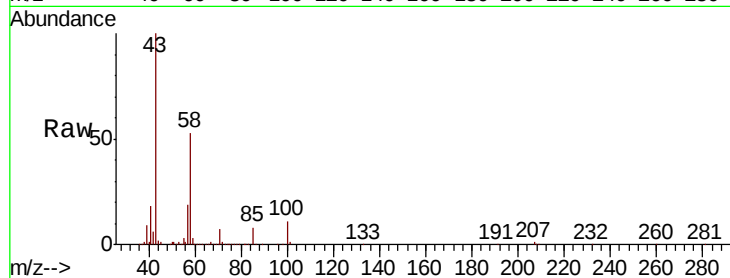




#59
2-Hexanone
Concen: 112.977 ug/l
RT: 10.75 min Scan# 2791
Delta R.T. 0.00 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

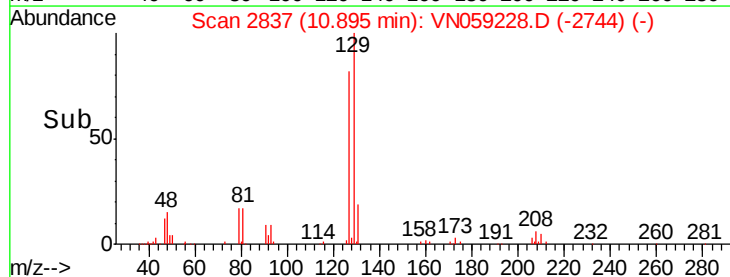
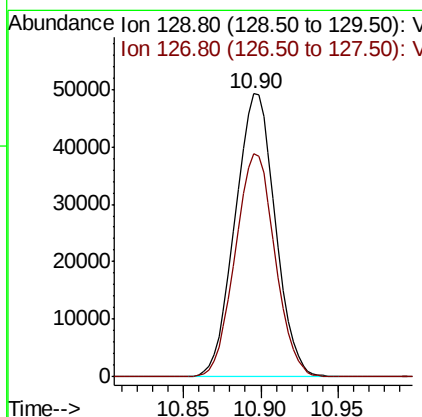
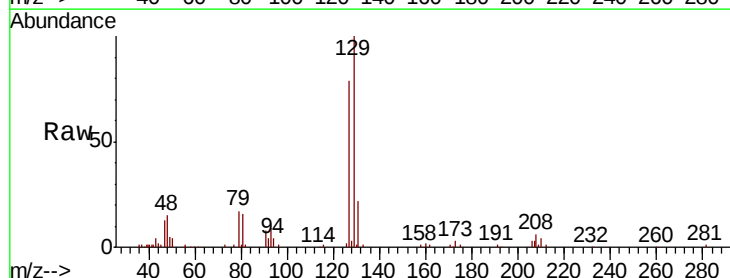
Instrument :
MSVOA_N
ClientSampleId :
VN1114MBS01

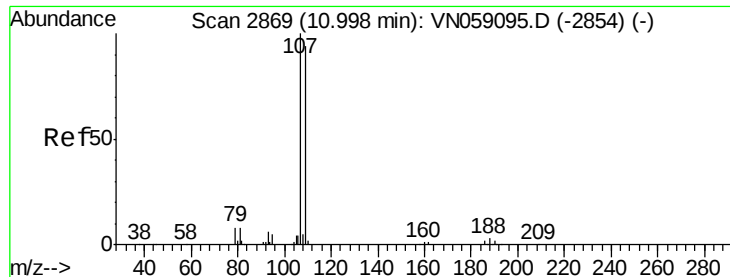
Tot Ion: 43 Resp: 488147
Ion Ratio Lower Upper
43 100
58 54.5 27.3 81.8



#60
Dibromochloromethane
Concen: 20.553 ug/l
RT: 10.90 min Scan# 2837
Delta R.T. -0.00 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

Tgt Ion: 129 Resp: 89043
Ion Ratio Lower Upper
129 100
127 78.0 38.6 115.8





#61

1,2-Dibromoethane

Concen: 20.370 ug/l

RT: 11.00 min Scan# 2870

Delta R.T. 0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Instrument :

MSVOA_N

ClientSampleId :

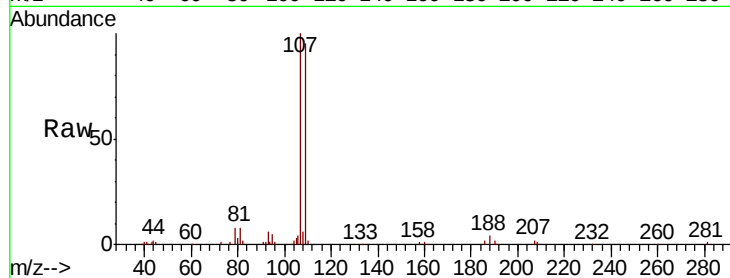
VN1114MBS01

Tot Ion:107 Resp: 84495

Ion Ratio Lower Upper

107 100

109 96.0 75.5 113.3



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.00

50000

40000

30000

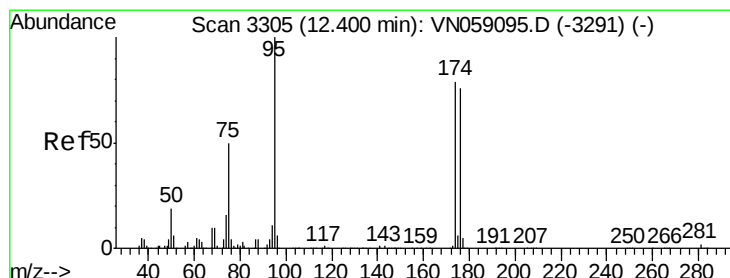
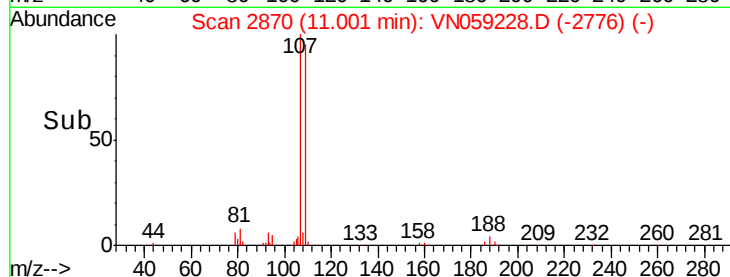
20000

10000

0

Time-->

10.95 11.00 11.05



#62

4-Bromofluorobenzene

Concen: 49.727 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

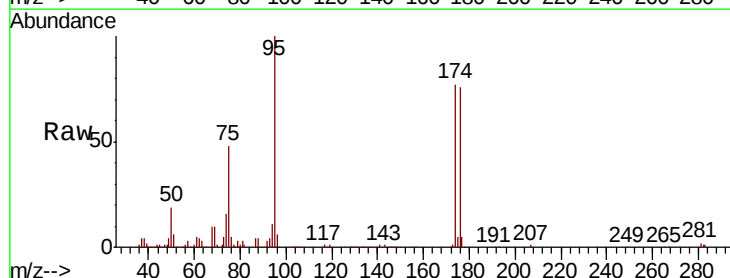
Tgt Ion: 95 Resp: 253073

Ion Ratio Lower Upper

95 100

174 78.9 0.0 158.2

176 76.8 0.0 151.8



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

200000

150000

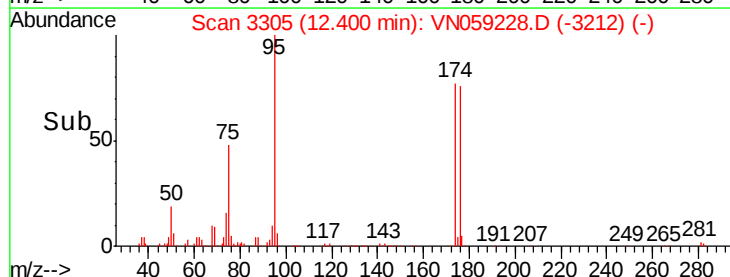
100000

50000

0

Time-->

12.35 12.40 12.45





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2995

Delta R.T. -0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Instrument :

MSVOA_N

ClientSampleId :

VN1114MBS01

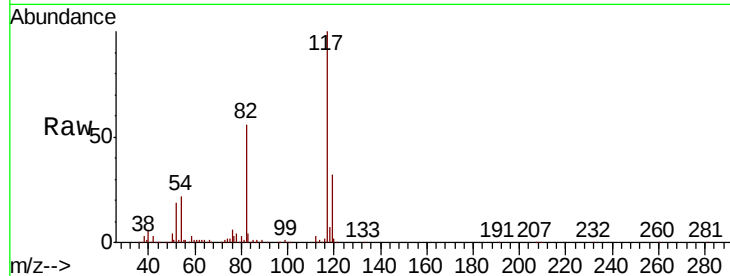
Tot Ion:117 Resp: 544667

Ion Ratio Lower Upper

117 100

82 56.4 45.8 68.8

119 31.8 25.8 38.6

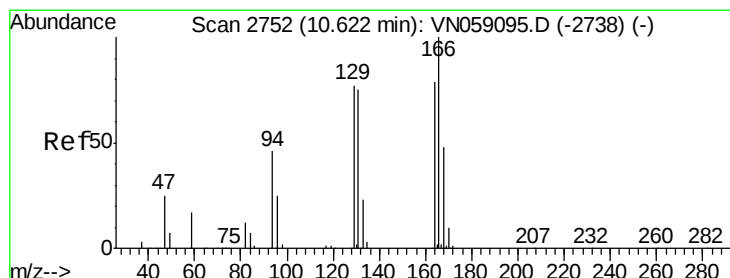
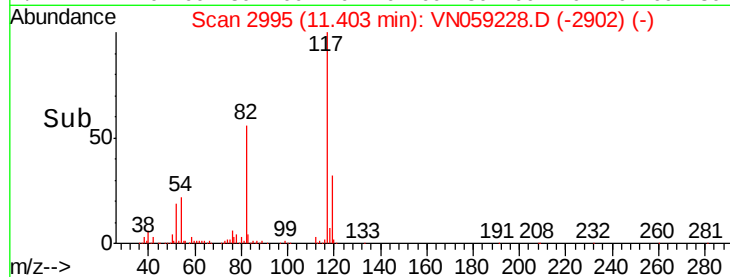
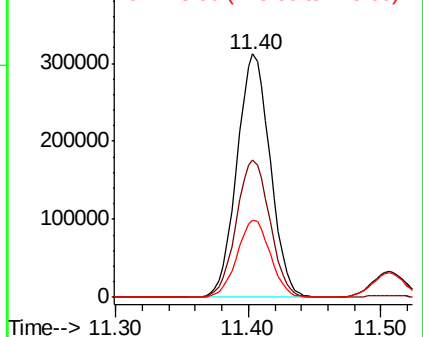


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64

Tetrachloroethene

Concen: 19.085 ug/l

RT: 10.63 min Scan# 2753

Delta R.T. 0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Tgt Ion:164 Resp: 70686

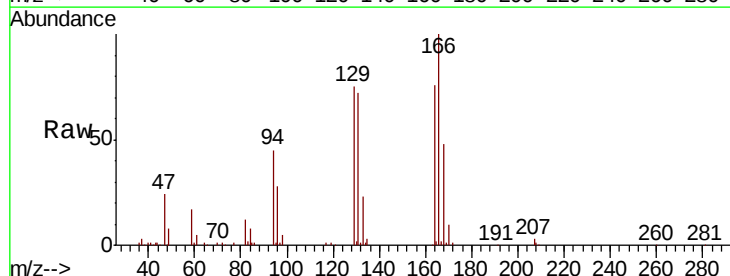
Ion Ratio Lower Upper

164 100

166 132.4 101.5 152.3

129 99.7 78.3 117.5

131 95.2 75.9 113.9



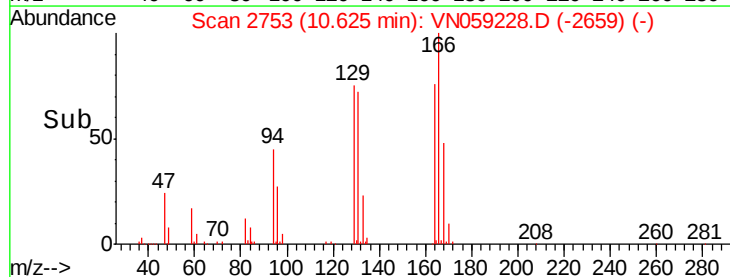
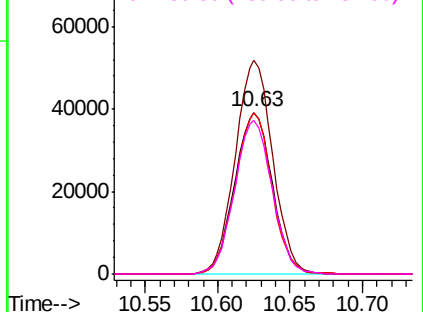
Abundance

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





#65

Chlorobenzene

Concen: 20.131 ug/l

RT: 11.43 min Scan# 3003

Delta R.T. -0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Instrument :

MSVOA_N

ClientSampled :

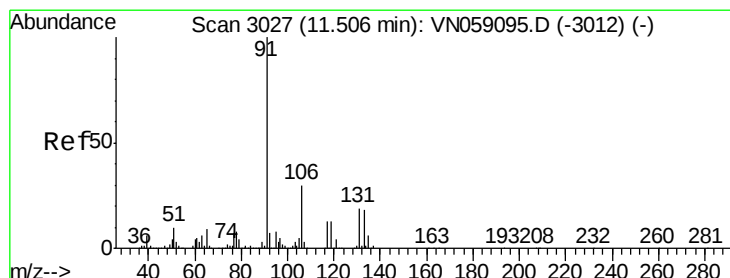
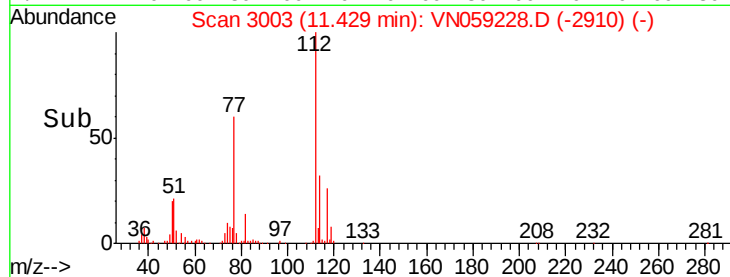
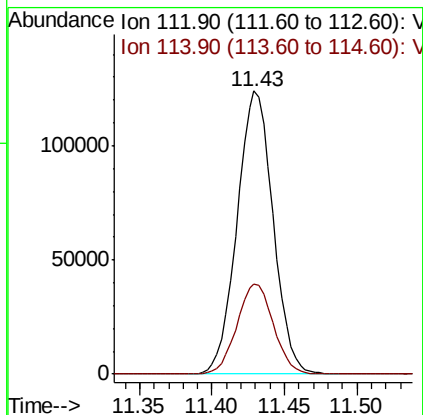
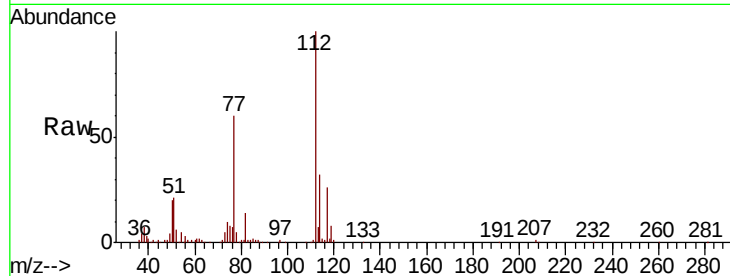
VN1114MBS01

Tot Ion:112 Resp: 213744

Ion Ratio Lower Upper

112 100

114 32.0 25.2 37.8



#66

1,1,1,2-Tetrachloroethane

Concen: 20.903 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. -0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

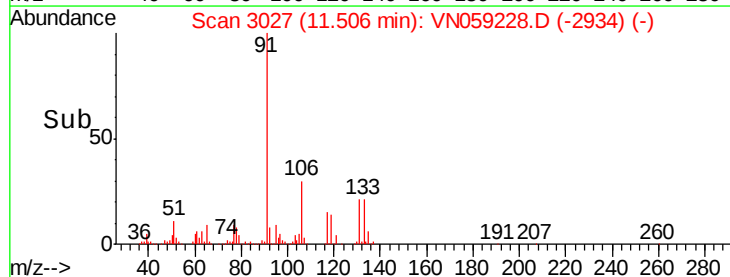
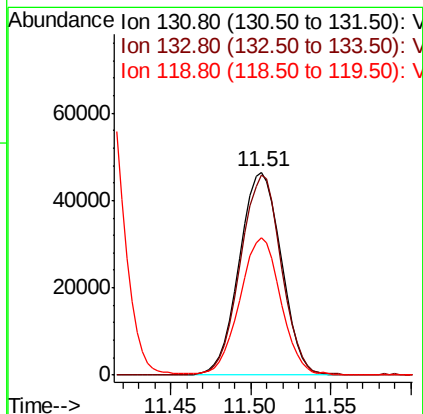
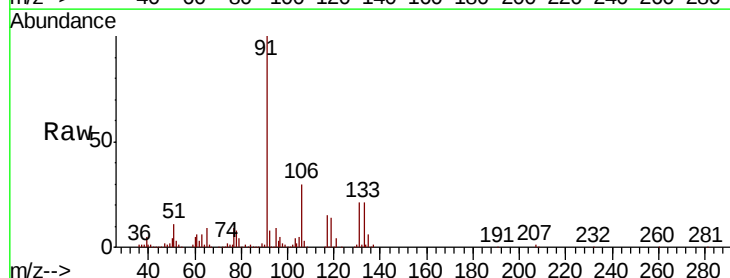
Tgt Ion:131 Resp: 83255

Ion Ratio Lower Upper

131 100

133 96.9 47.4 142.3

119 66.2 33.2 99.6

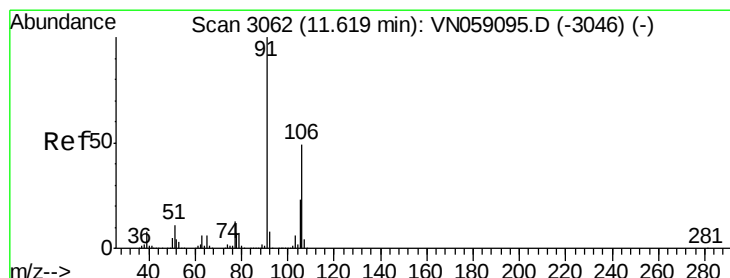
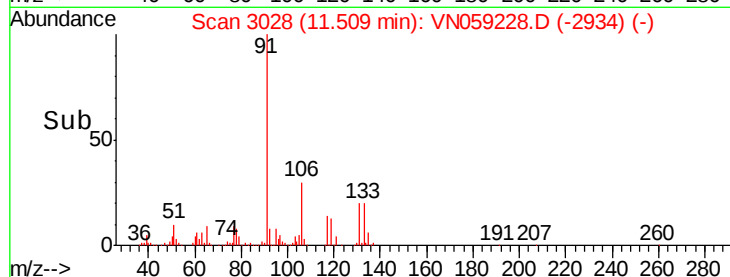
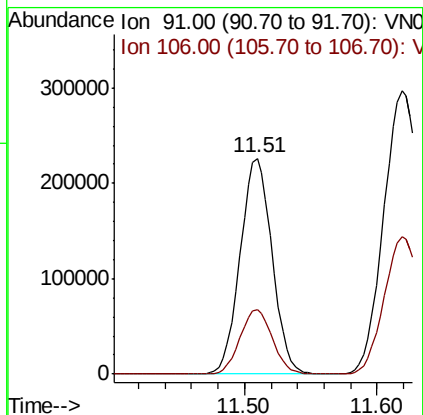
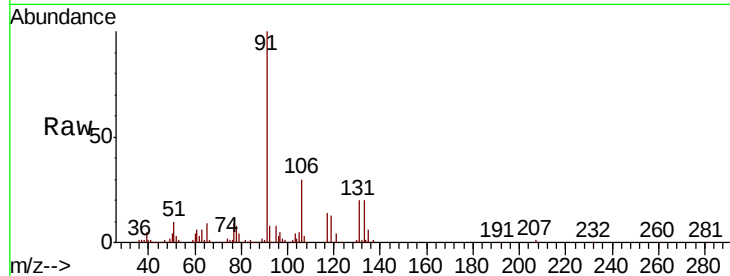




#67
Ethyl Benzene
Concen: 20.060 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

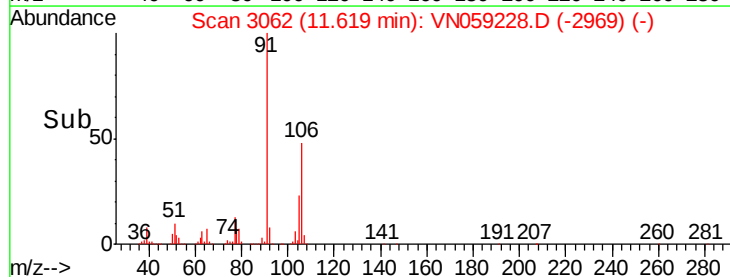
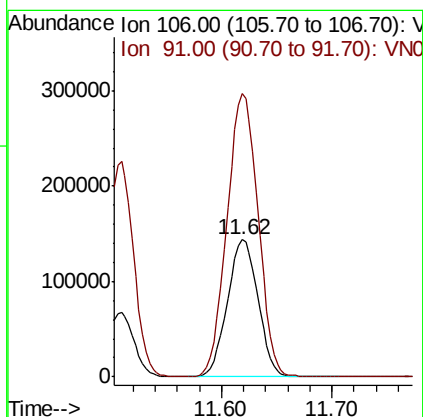
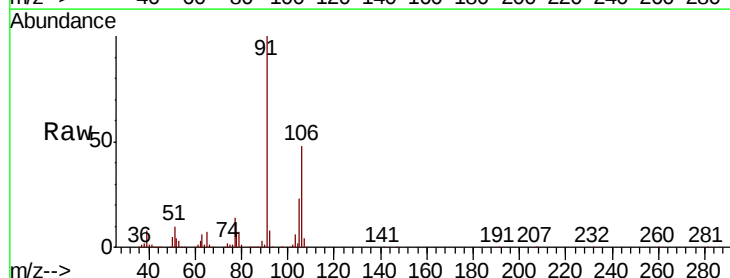
Instrument :
MSVOA_N
ClientSampleId :
VN1114MBS01

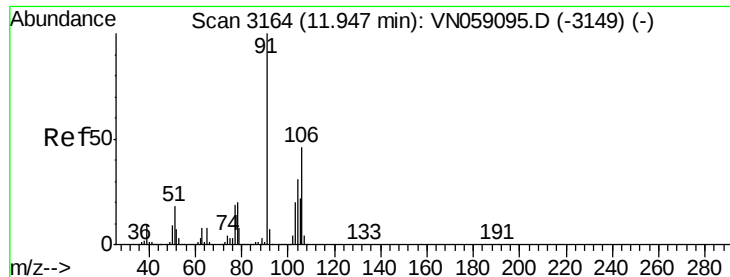
Tot Ion: 91 Resp: 377891
Ion Ratio Lower Upper
91 100
106 29.8 24.1 36.1



#68
m/p-Xylenes
Concen: 39.402 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

Tgt Ion: 106 Resp: 278043
Ion Ratio Lower Upper
106 100
91 208.2 164.7 247.1

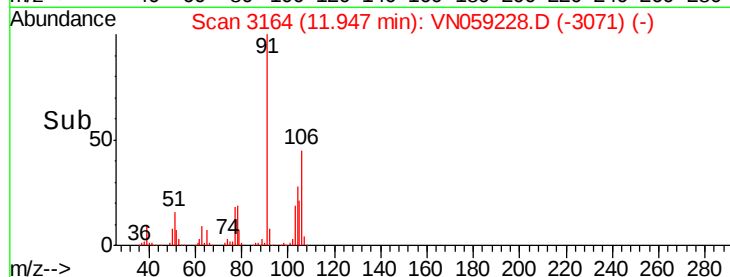
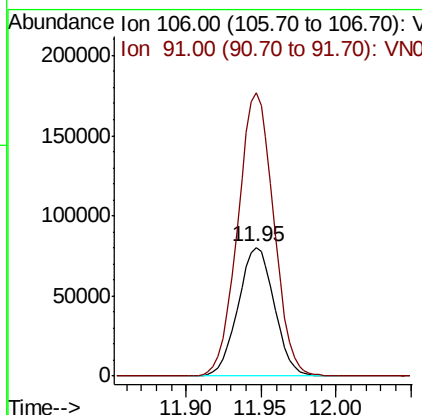
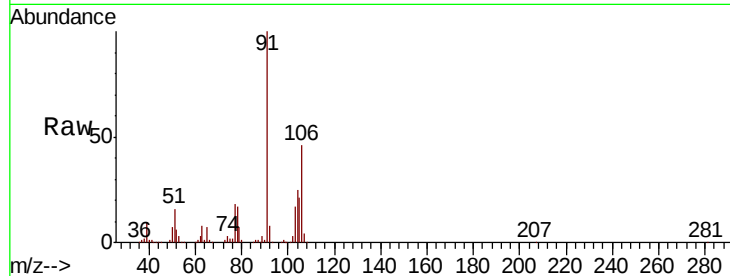




#69
o-Xylene
Concen: 19.815 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

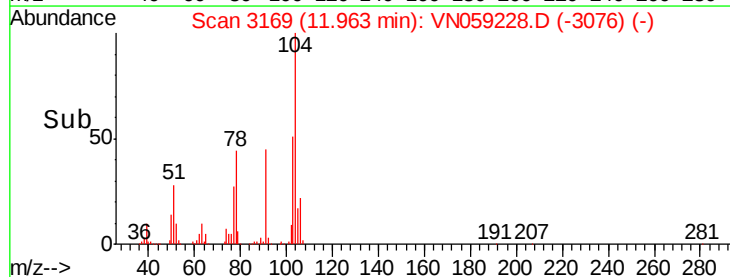
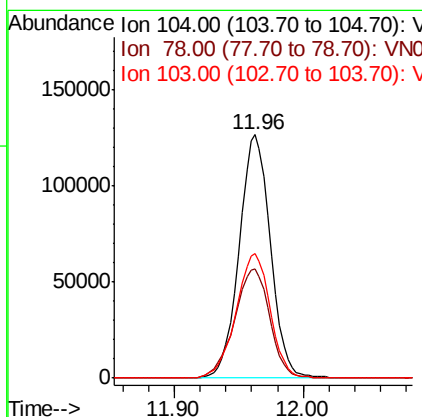
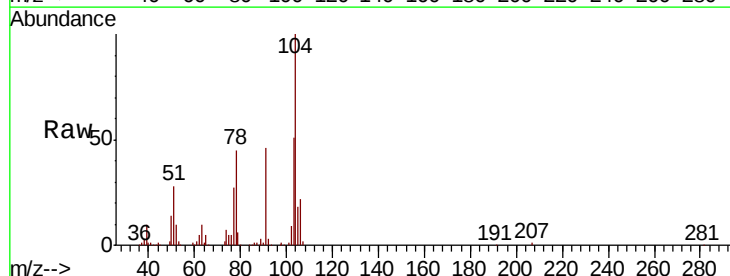
Instrument :
MSVOA_N
ClientSampleId :
VN1114MBS01

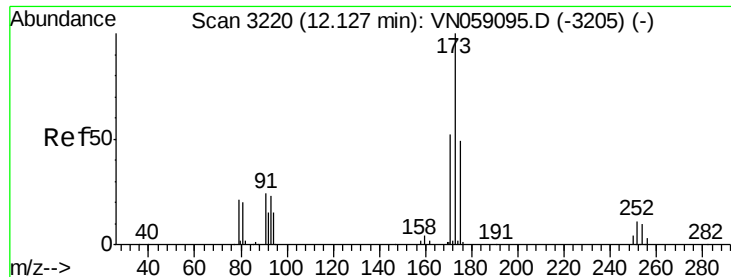
Tot Ion:106 Resp: 135127
Ion Ratio Lower Upper
106 100
91 218.5 110.1 330.3



#70
Styrene
Concen: 19.893 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

Tgt Ion:104 Resp: 213356
Ion Ratio Lower Upper
104 100
78 51.0 41.2 61.8
103 56.0 43.8 65.6





#71

Bromoform

Concen: 21.359 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. -0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Instrument :

MSVOA_N

ClientSampleId :

VN1114MBS01

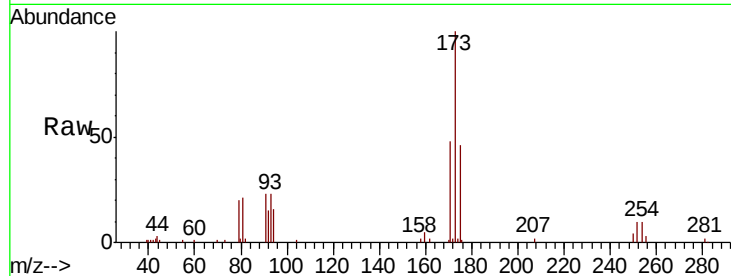
Tot Ion:173 Resp: 66171

Ion Ratio Lower Upper

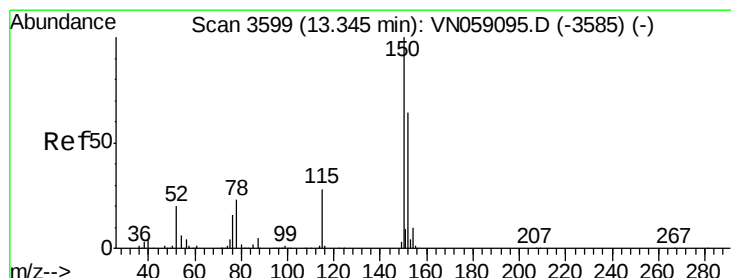
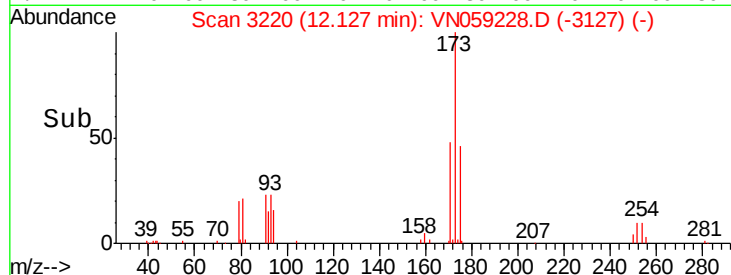
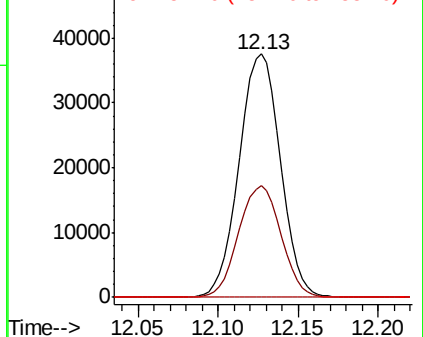
173 100

175 47.1 24.2 72.6

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# 3599

Delta R.T. -0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

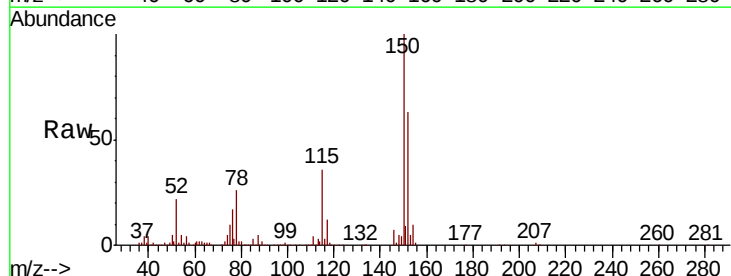
Tgt Ion:152 Resp: 244570

Ion Ratio Lower Upper

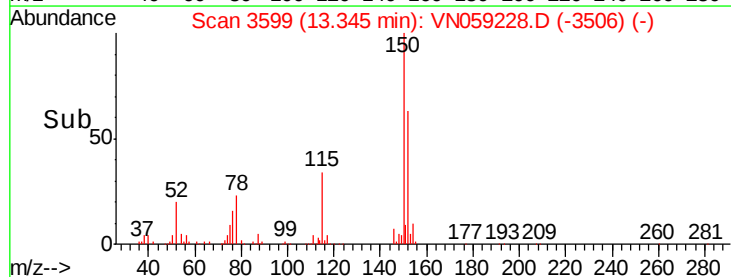
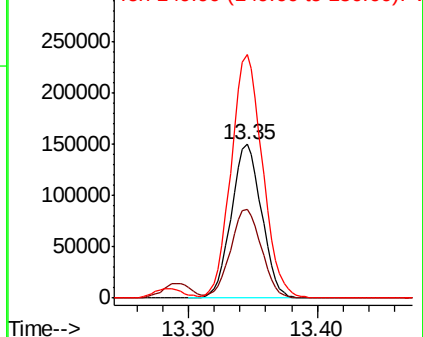
152 100

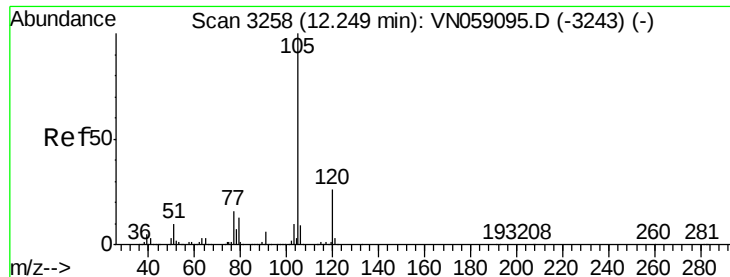
115 59.0 29.4 88.2

150 163.8 0.0 345.8



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





#73

Isopropylbenzene

Concen: 20.344 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Instrument :

MSVOA_N

ClientSampleId :

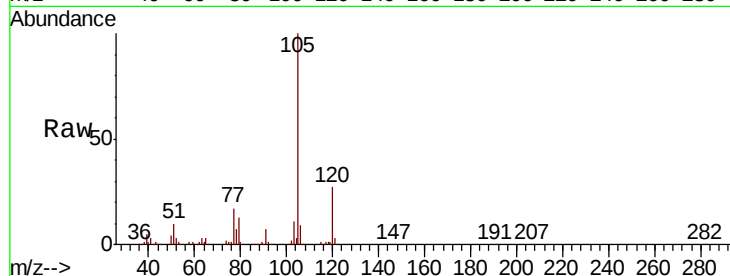
VN1114MBS01

Tot Ion: 105 Resp: 361930

Ion Ratio Lower Upper

105 100

120 26.4 13.1 39.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

250000

200000

150000

100000

50000

0

12.25

12.20

12.15

12.10

12.05

12.00

11.95

11.90

11.85

11.80

11.75

11.70

11.65

11.60

11.55

11.50

11.45

11.40

11.35

11.30

11.25

11.20

11.15

11.10

11.05

11.00

10.95

10.90

10.85

10.80

10.75

10.70

10.65

10.60

10.55

10.50

10.45

10.40

10.35

10.30

10.25

10.20

10.15

10.10

10.05

10.00

9.95

9.85

9.75

9.65

9.55

9.45

9.40

9.35

9.30

9.25

9.20

9.15

9.10

9.05

9.00

8.95

8.90

8.85

8.80

8.75

8.70

8.65

8.60

8.55

8.50

8.45

8.40

8.35

8.30

8.25

8.20

8.15

8.10

8.05

8.00

7.95

7.90

7.85

7.80

7.75

7.70

7.65

7.60

7.55

7.50

7.45

7.40

7.35

7.30

7.25

7.20

7.15

7.10

7.05

7.00

6.95

6.90

6.85

6.80

6.75

6.70

6.65

6.60

6.55

6.50

6.45

6.40

6.35

6.30

6.25

6.20

6.15

6.10

6.05

6.00

5.95

5.90

5.85

5.80

5.75

5.70

5.65

5.60

5.55

5.50

5.45

5.40

5.35

5.30

5.25

5.20

5.15

5.10

5.05

5.00

4.95

4.90

4.85

4.80

4.75

4.70

4.65

4.60

4.55

4.50

4.45

4.40

4.35

4.30

4.25

4.20

4.15

4.10

4.05

4.00

3.95

3.90

3.85

3.80

3.75

3.70

3.65

3.60

3.55

3.50

3.45

3.40

3.35

3.30

3.25

3.20

3.15

3.10

3.05

3.00

2.95

2.90

2.85

2.80

2.75

2.70

2.65

2.60

2.55

2.50

2.45

2.40

2.35

2.30

2.25

2.20

2.15

2.10

2.05

2.00

1.95

1.90

1.85

1.80

1.75

1.70

1.65

1.60

1.55

1.50

1.45

1.40

1.35

1.30

1.25

1.20

1.15

1.10

1.05

1.00

0.95

0.90

0.85

0.80

0.75

0.70

0.65

0.60

0.55

0.50

0.45

0.40

0.35

0.30

0.25

0.20

0.15

0.10

0.05

0.00

-0.05

-0.10

-0.15

-0.20

-0.25

-0.30

-0.35

-0.40

-0.45

-0.50

-0.55

-0.60

-0.65

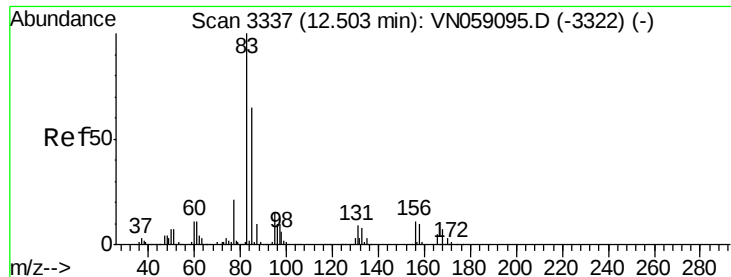
-0.70

-0.75

-0.80

-0.85

-0.90



#75

1,1,2,2-Tetrachloroethane

Concen: 22.021 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Instrument :

MSVOA_N

ClientSampled :

VN1114MBS01

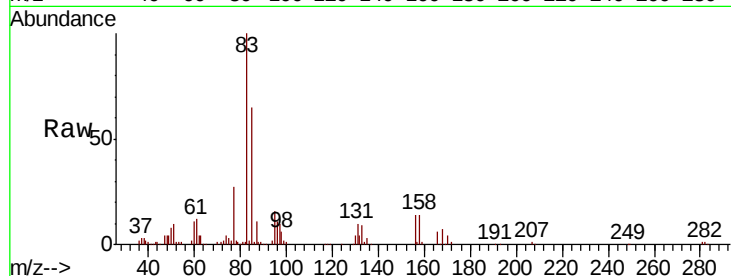
Tot Ion: 83 Resp: 133411

Ion Ratio Lower Upper

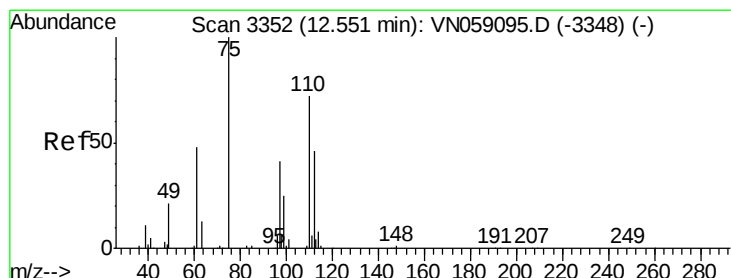
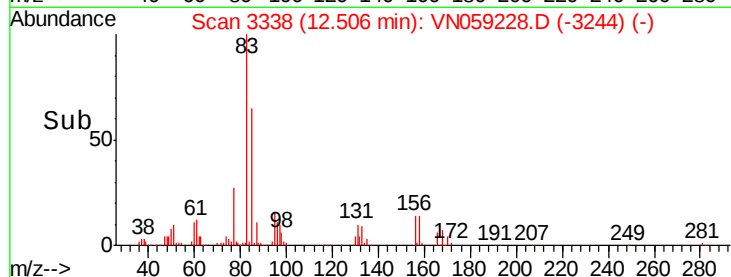
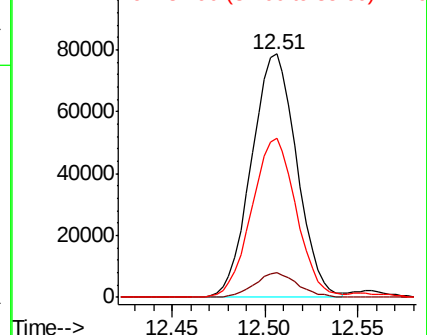
83 100

131 9.7 4.9 14.6

85 64.2 32.4 97.2



Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 130.80 (130.50 to 131.50): VNO
Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 30.986 ug/l

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VN059228.D

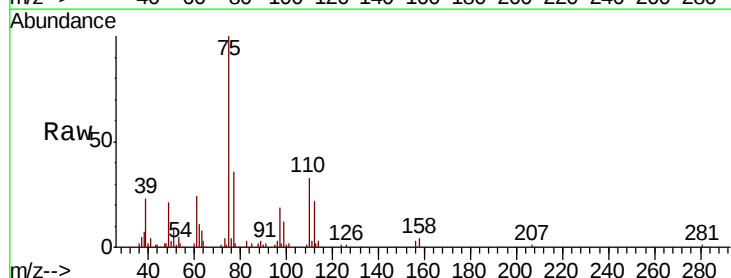
Acq: 14 Nov 2019 13:09

Tgt Ion: 75 Resp: 172530

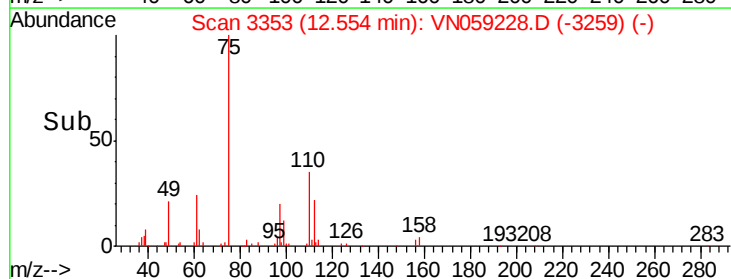
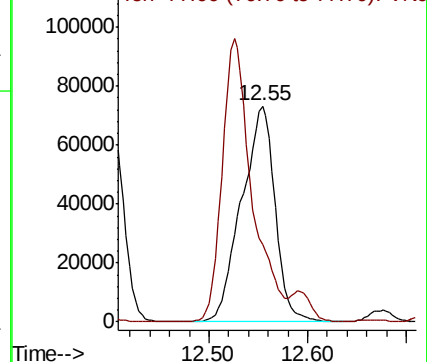
Ion Ratio Lower Upper

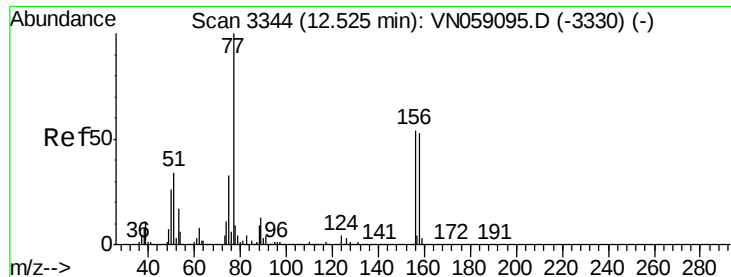
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 77.00 (76.70 to 77.70): VNO





#77

Bromobenzene

Concen: 19.798 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Instrument :

MSVOA_N

ClientSampleId :

VN1114MBS01

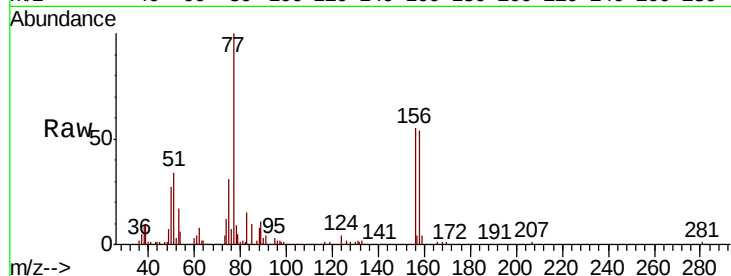
Tot Ion:156 Resp: 88491

Ion Ratio Lower Upper

156 100

77 230.1 112.8 338.3

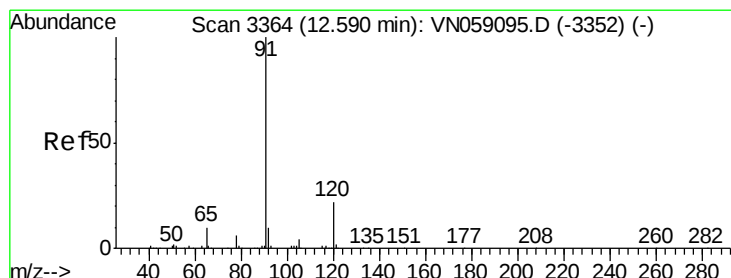
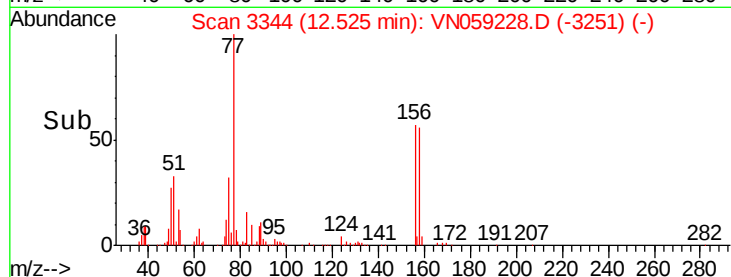
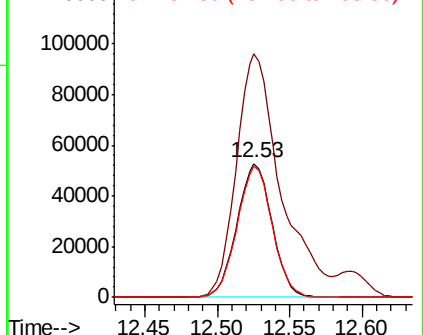
158 98.6 48.4 145.3



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: 20.477 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN059228.D

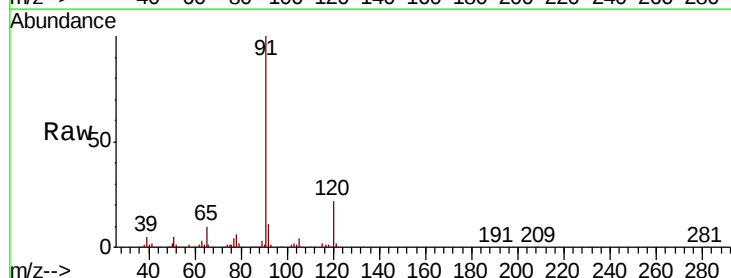
Acq: 14 Nov 2019 13:09

Tgt Ion: 91 Resp: 417109

Ion Ratio Lower Upper

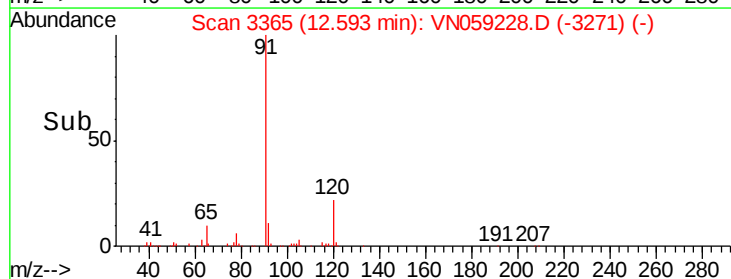
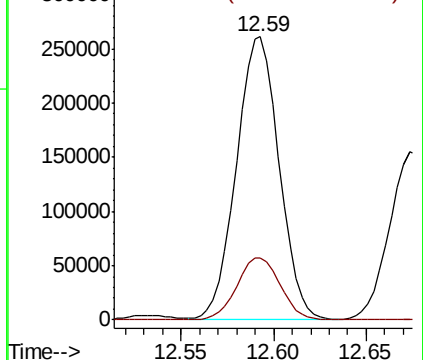
91 100

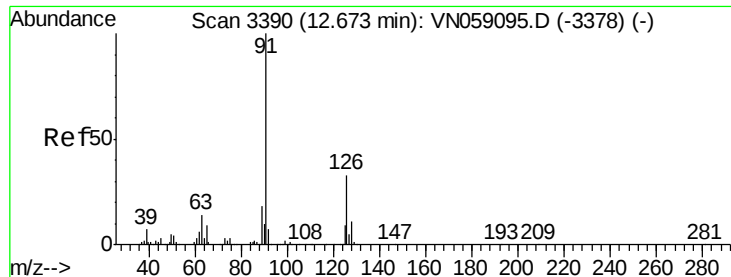
120 22.3 11.2 33.5



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 20.330 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Instrument :

MSVOA_N

ClientSampled :

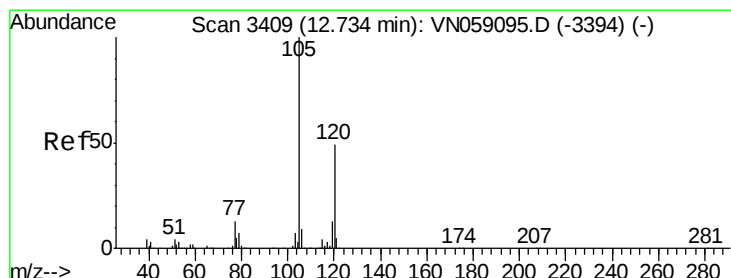
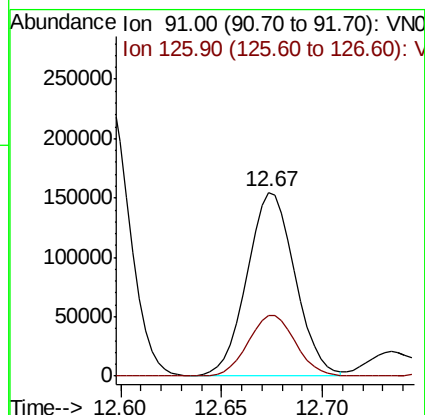
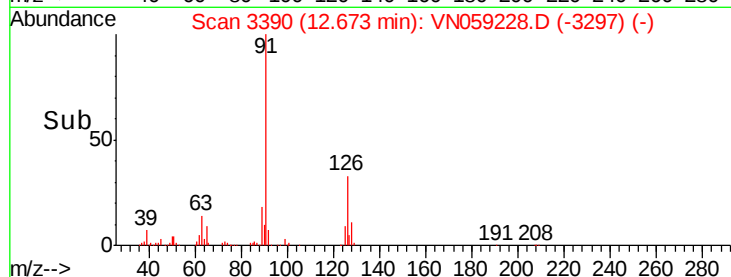
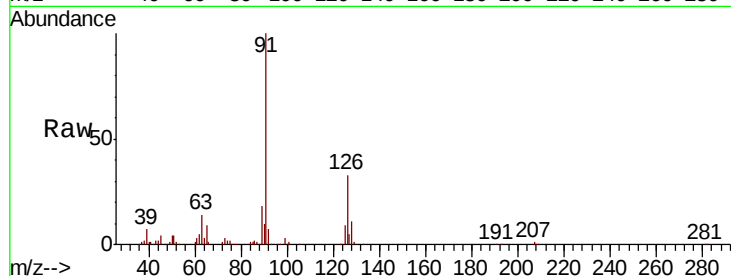
VN1114MBS01

Tot Ion: 91 Resp: 256899

Ion Ratio Lower Upper

91 100

126 33.0 16.7 50.1



#80

1,3,5-Trimethylbenzene

Concen: 20.244 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.00 min

Lab File: VN059228.D

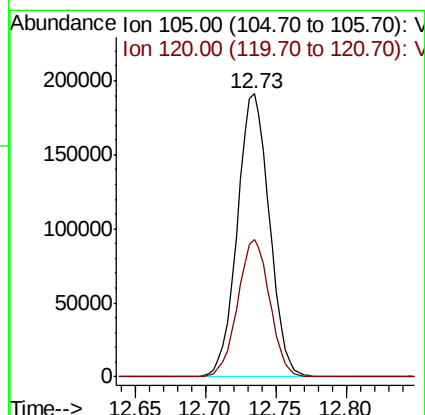
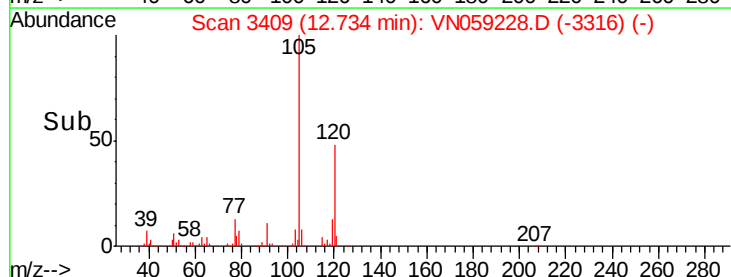
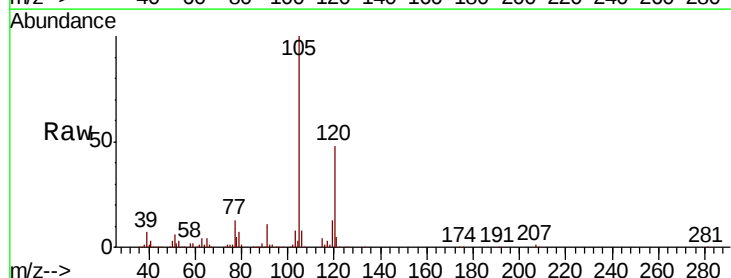
Acq: 14 Nov 2019 13:09

Tgt Ion: 105 Resp: 305170

Ion Ratio Lower Upper

105 100

120 48.6 24.0 72.0

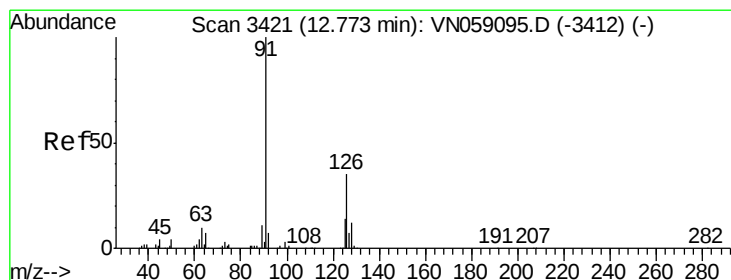
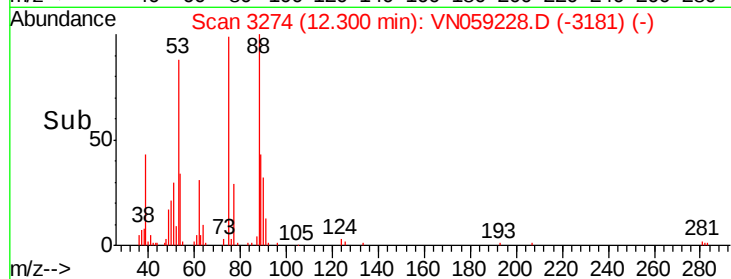
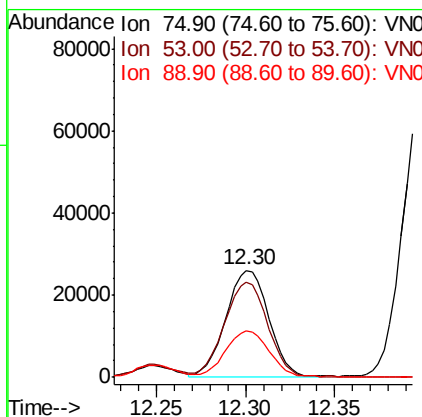
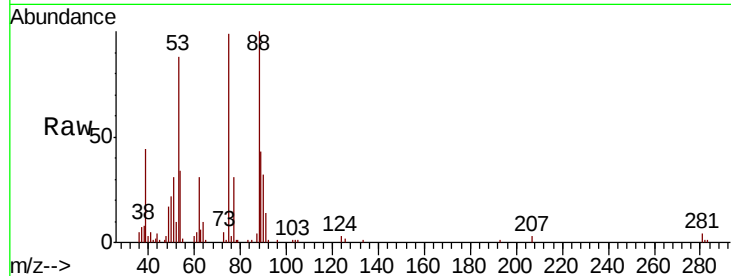




#81
trans-1,4-Dichloro-2-butene
Concen: 20.815 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. -0.00 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

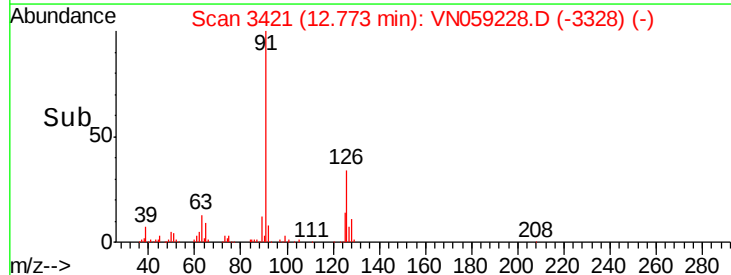
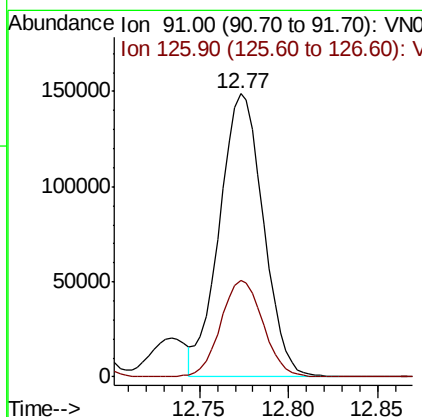
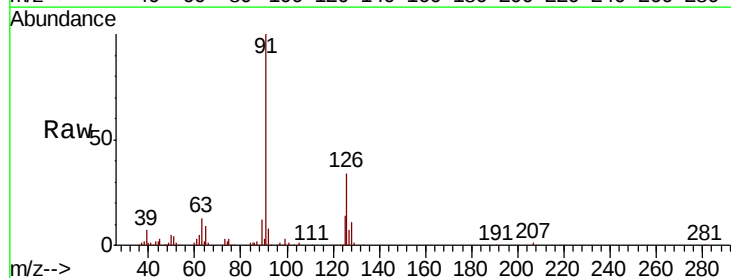
Instrument :
MSVOA_N
ClientSampleId :
VN1114MBS01

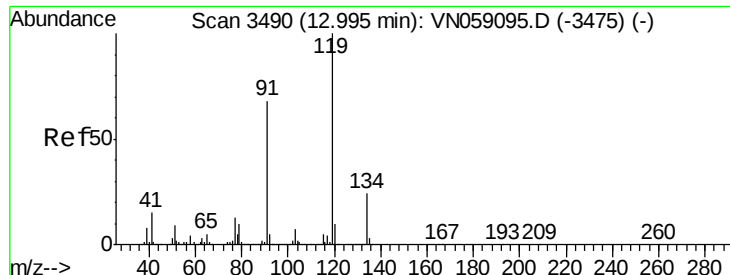
Tot Ion: 75 Resp: 43879
Ion Ratio Lower Upper
75 100
53 87.7 72.2 108.2
89 44.1 35.8 53.8



#82
4-Chlorotoluene
Concen: 19.906 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. -0.00 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

Tgt Ion: 91 Resp: 252283
Ion Ratio Lower Upper
91 100
126 33.2 16.1 48.2





#83

tert-Butylbenzene

Concen: 20.200 ug/l

RT: 12.99 min Scan# 3490

Delta R.T. -0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Instrument :

MSVOA_N

ClientSampleId :

VN1114MBS01

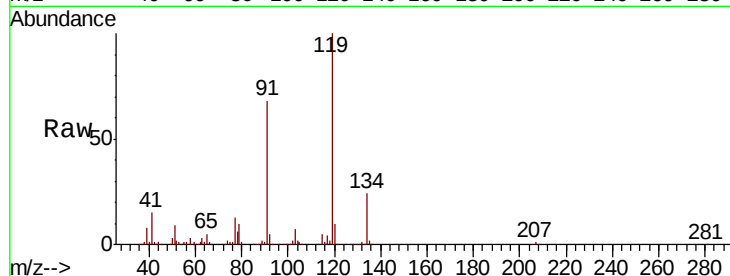
Tot Ion:119 Resp: 262970

Ion Ratio Lower Upper

119 100

91 66.3 33.2 99.6

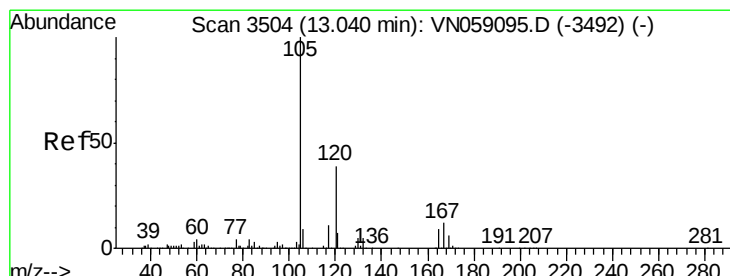
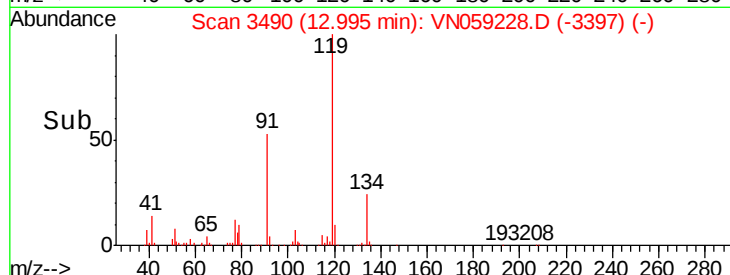
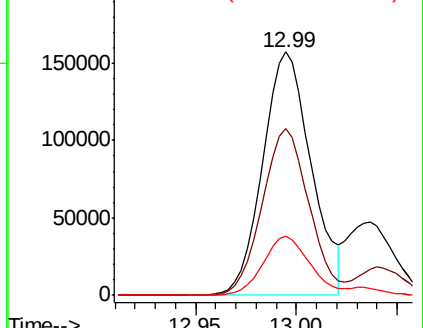
134 23.6 12.7 38.1



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: 20.512 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. -0.00 min

Lab File: VN059228.D

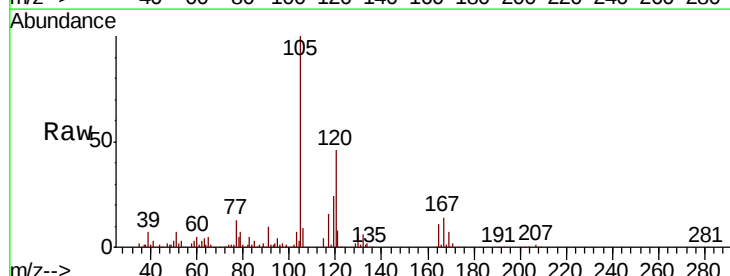
Acq: 14 Nov 2019 13:09

Tgt Ion:105 Resp: 299159

Ion Ratio Lower Upper

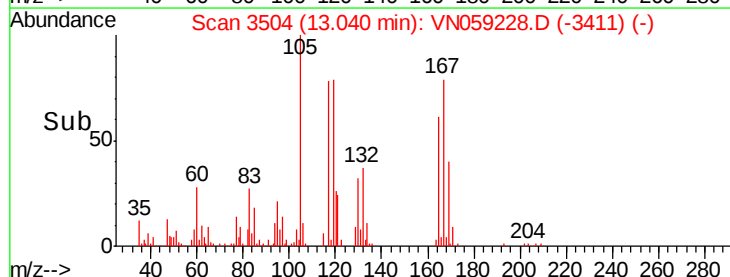
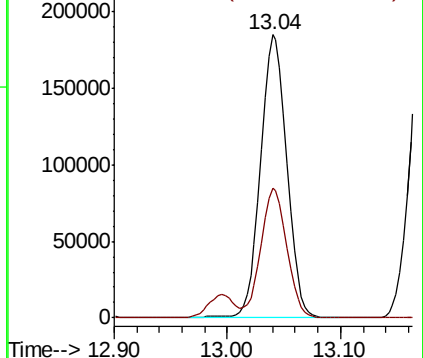
105 100

120 45.3 22.8 68.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

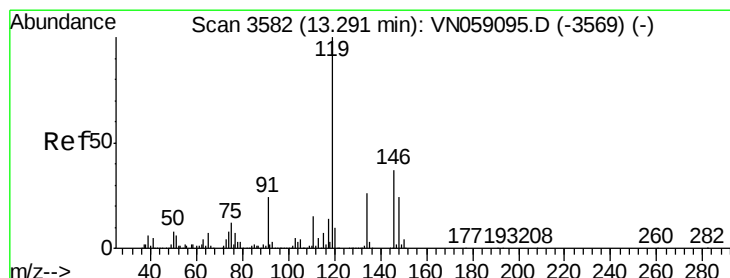
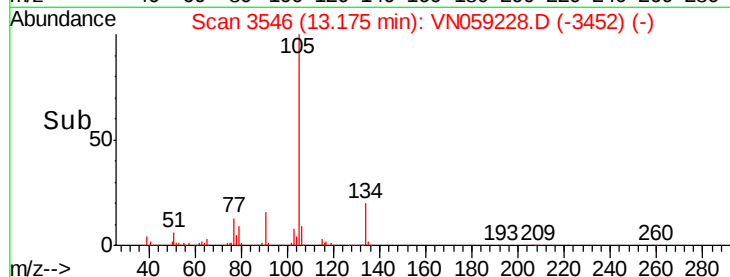
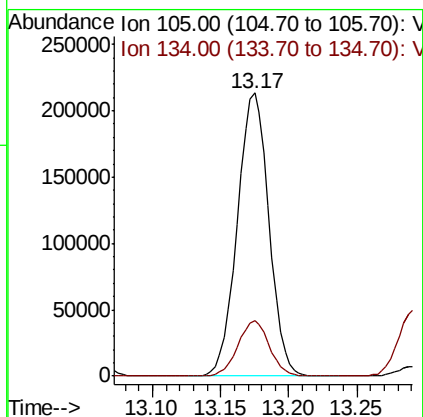
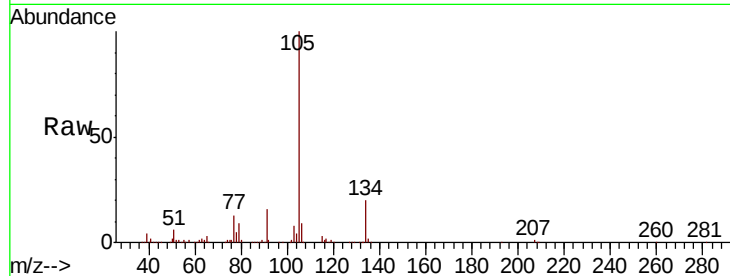




#85
 sec-Butylbenzene
 Concen: 20.187 ug/l
 RT: 13.17 min Scan# 3546
 Delta R.T. 0.00 min
 Lab File: VN059228.D
 Acq: 14 Nov 2019 13:09

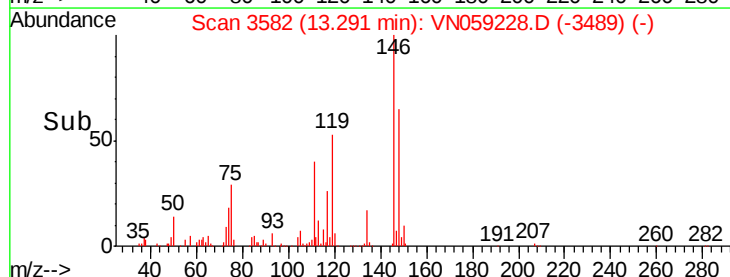
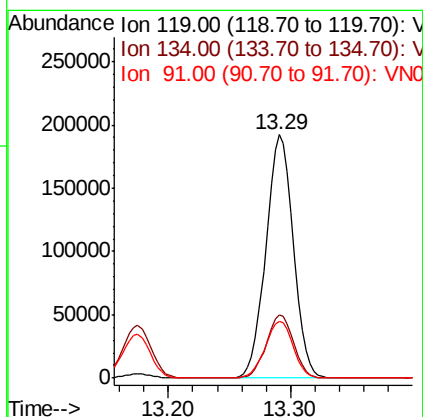
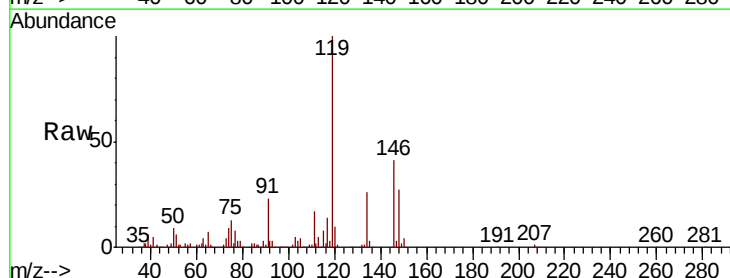
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1114MBS01

Tot Ion:105 Resp: 341773
 Ion Ratio Lower Upper
 105 100
 134 19.5 9.7 29.1



#86
 p-Isopropyltoluene
 Concen: 20.203 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. -0.00 min
 Lab File: VN059228.D
 Acq: 14 Nov 2019 13:09

Tgt Ion:119 Resp: 302020
 Ion Ratio Lower Upper
 119 100
 134 26.0 13.0 38.9
 91 23.8 11.7 35.1





#87

1,3-Dichlorobenzene

Concen: 20.176 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Instrument :

MSVOA_N

ClientSampleId :

VN1114MBS01

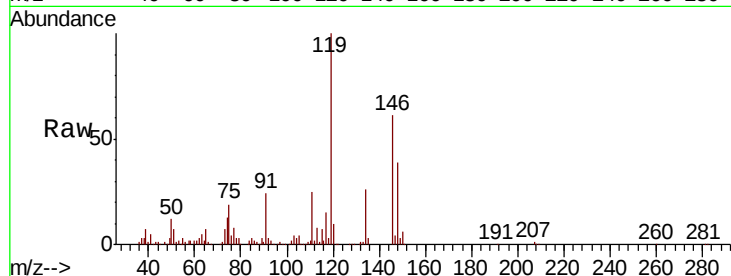
Tot Ion:146 Resp: 154424

Ion Ratio Lower Upper

146 100

111 40.4 20.4 61.3

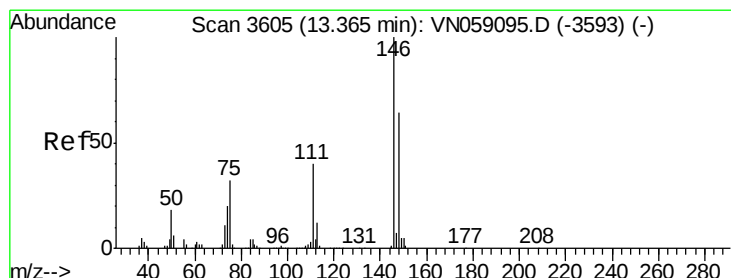
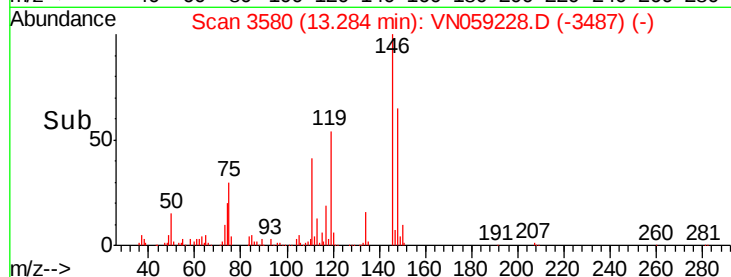
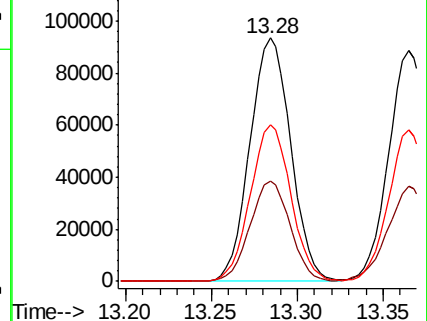
148 63.8 32.2 96.6



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: 19.530 ug/l

RT: 13.36 min Scan# 3605

Delta R.T. -0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

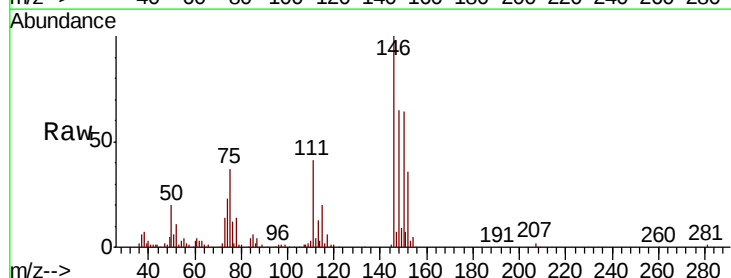
Tgt Ion:146 Resp: 149557

Ion Ratio Lower Upper

146 100

111 41.5 20.3 60.9

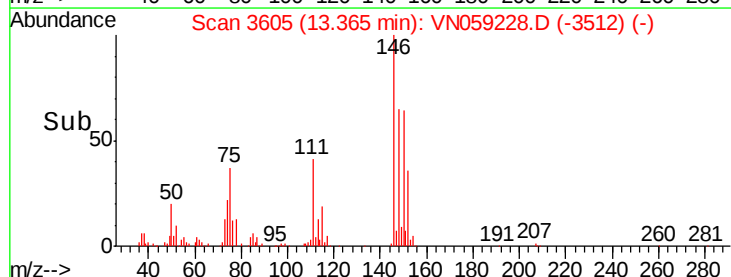
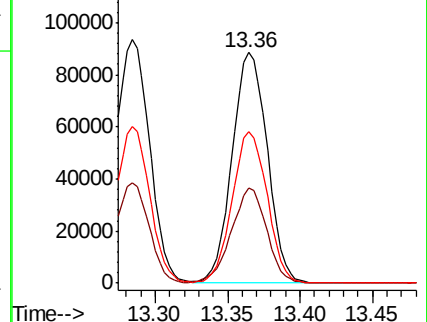
148 64.8 31.9 95.7

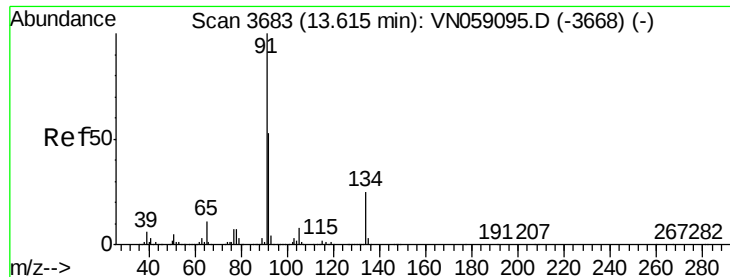


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#89

n-Butylbenzene

Concen: 18.574 ug/l

RT: 13.62 min Scan# 3684

Delta R.T. 0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Instrument :

MSVOA_N

ClientSampleId :

VN1114MBS01

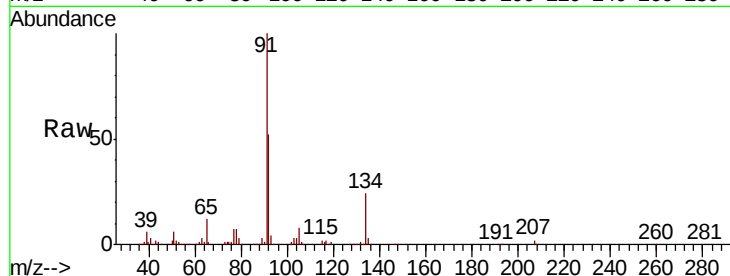
Tot Ion: 91 Resp: 243018

Ion Ratio Lower Upper

91 100

92 51.7 26.1 78.3

134 24.2 12.6 37.8



Abundance Ion 91.00 (90.70 to 91.70): VN059228.D (-3668) (-)

Ion 92.00 (91.70 to 92.70): VN059228.D (-3668) (-)

Ion 134.00 (133.70 to 134.70): VN059228.D (-3668) (-)

13.62

150000

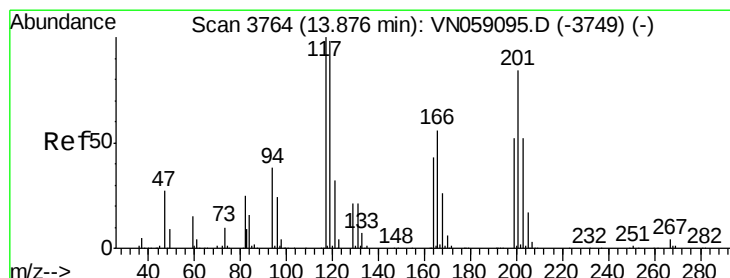
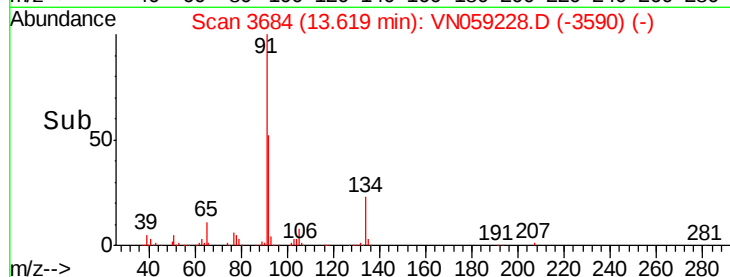
100000

50000

0

13.55 13.60 13.65 13.70

Time-->



#90

Hexachloroethane

Concen: 20.651 ug/l

RT: 13.88 min Scan# 3764

Delta R.T. -0.00 min

Lab File: VN059228.D

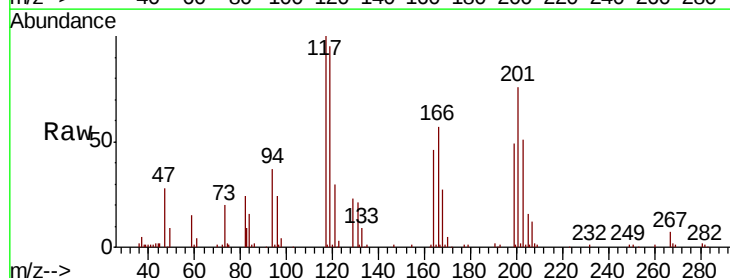
Acq: 14 Nov 2019 13:09

Tgt Ion: 117 Resp: 61989

Ion Ratio Lower Upper

117 100

201 77.5 41.8 125.3



Abundance Ion 116.80 (116.50 to 117.50): VN059228.D (-3749) (-)

Ion 200.70 (200.40 to 201.40): VN059228.D (-3749) (-)

13.88

40000

30000

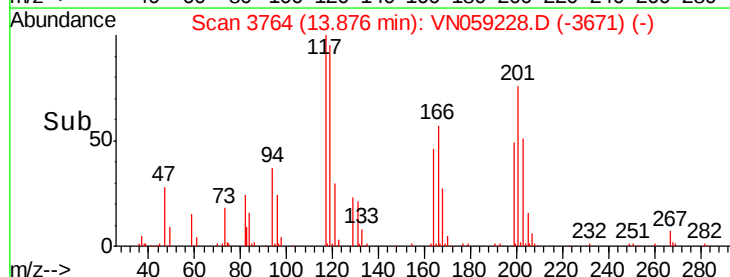
20000

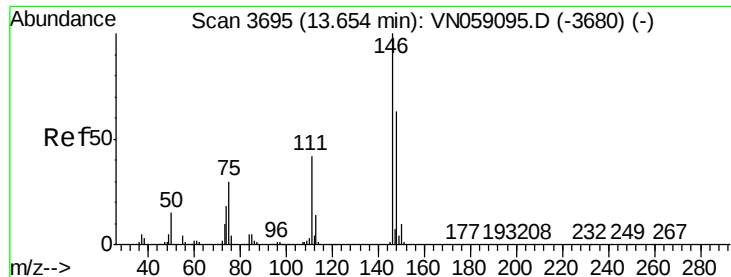
10000

0

13.80 13.85 13.90 13.95

Time-->

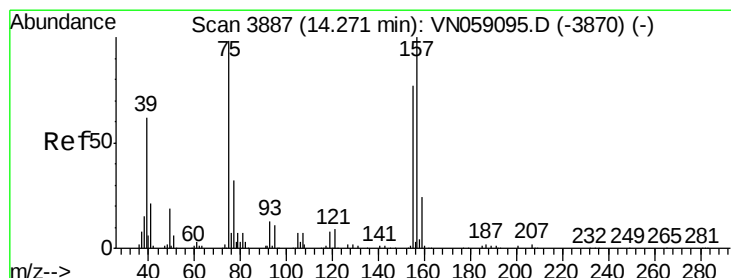
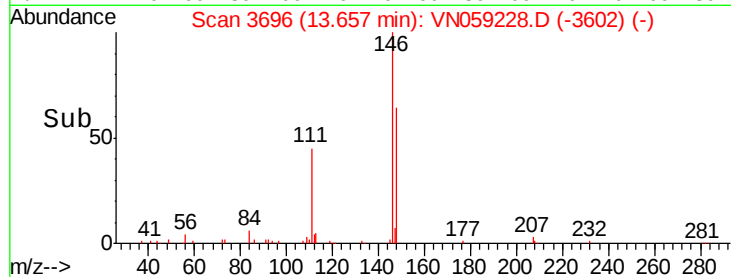
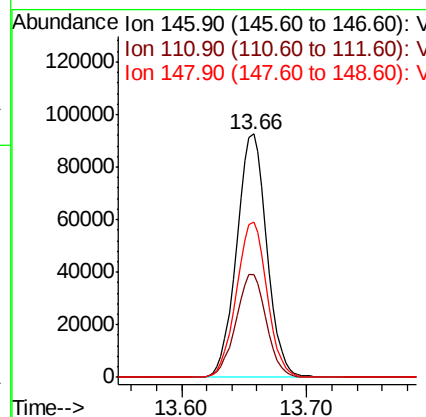
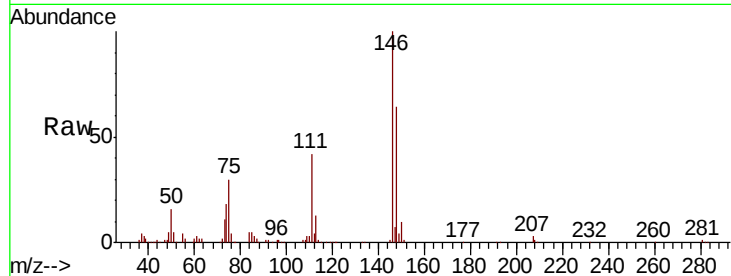




#91
 1,2-Dichlorobenzene
 Concen: 20.522 ug/l
 RT: 13.66 min Scan# 3696
 Delta R.T. 0.00 min
 Lab File: VN059228.D
 Acq: 14 Nov 2019 13:09

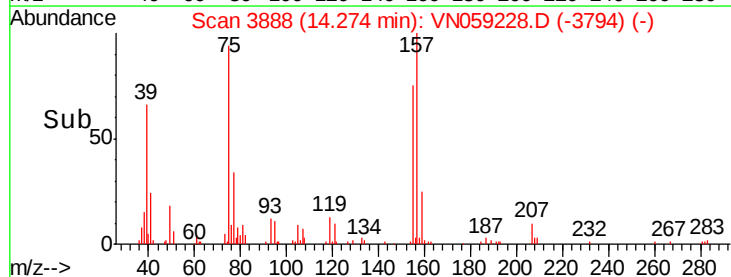
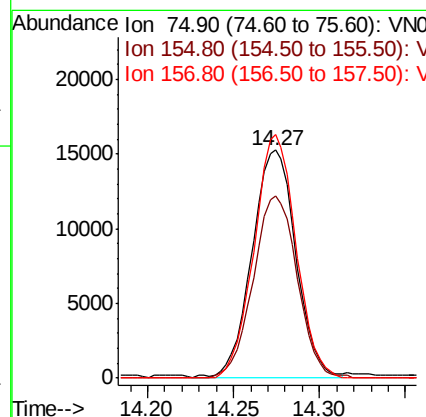
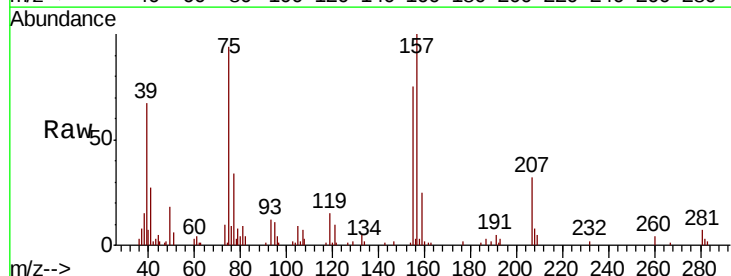
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1114MBS01

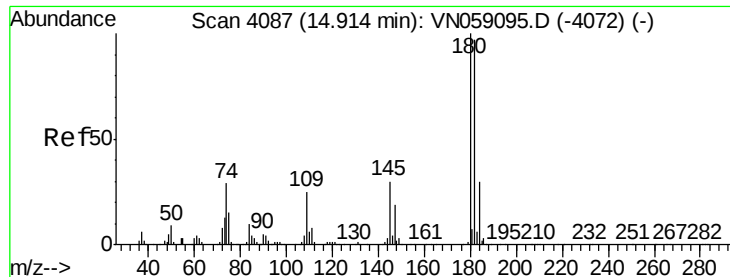
Tot Ion	Ratio	Lower	Upper
146	100		
111	42.5	21.2	63.6
148	64.9	31.6	94.7



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 22.415 ug/l
 RT: 14.27 min Scan# 3888
 Delta R.T. 0.00 min
 Lab File: VN059228.D
 Acq: 14 Nov 2019 13:09

Tgt Ion	Ratio	Lower	Upper
75	100		
155	79.7	40.2	120.6
157	101.3	51.8	155.5

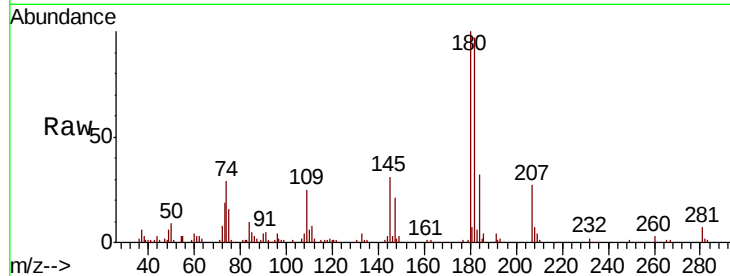




#93
 1,2,4-Trichlorobenzene
 Concen: 18.456 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. -0.00 min
 Lab File: VN059228.D
 Acq: 14 Nov 2019 13:09

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1114MBS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.1	48.1	144.3
145	31.2	15.1	45.3

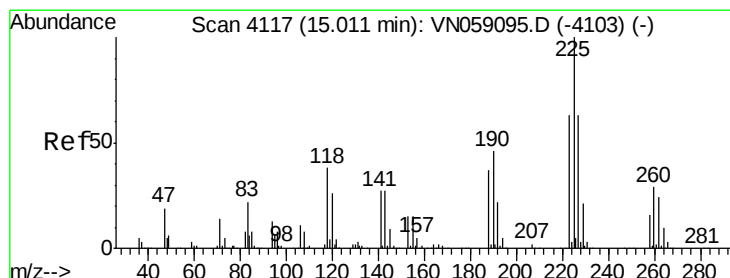
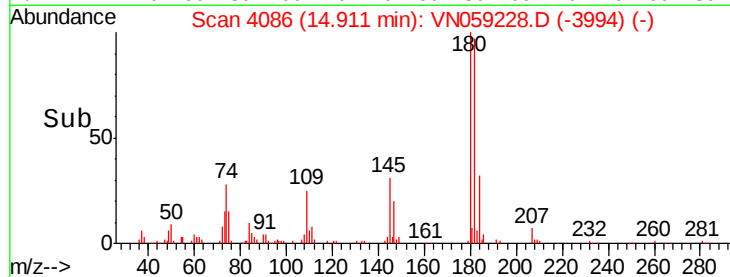
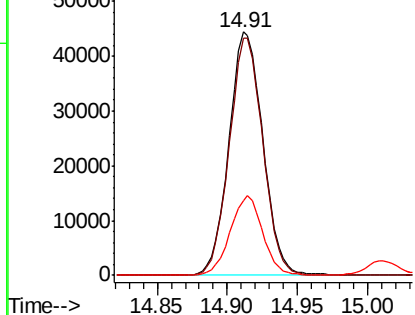


Abundance

Ion 179.80 (179.50 to 180.50): V

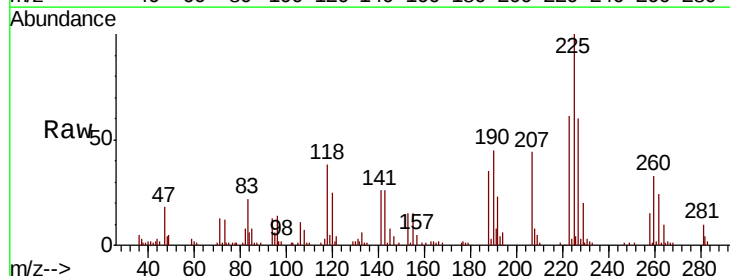
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
 Hexachlorobutadiene
 Concen: 19.342 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. -0.00 min
 Lab File: VN059228.D
 Acq: 14 Nov 2019 13:09

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.2	31.3	93.9
227	61.9	31.5	94.5

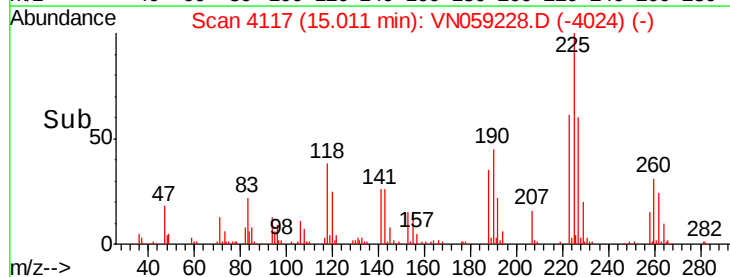
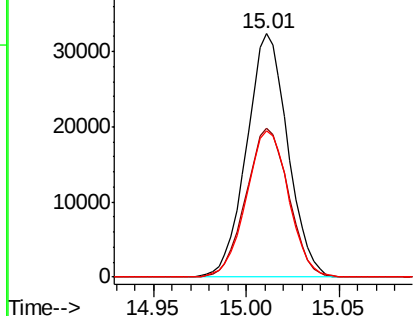


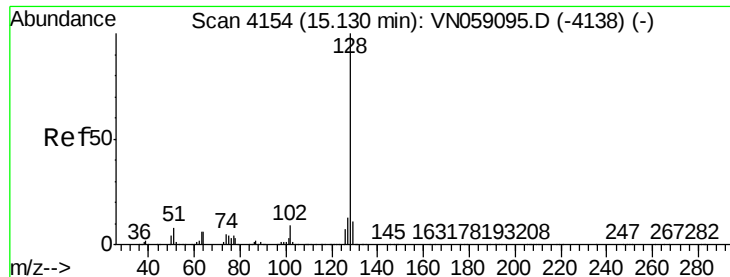
Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

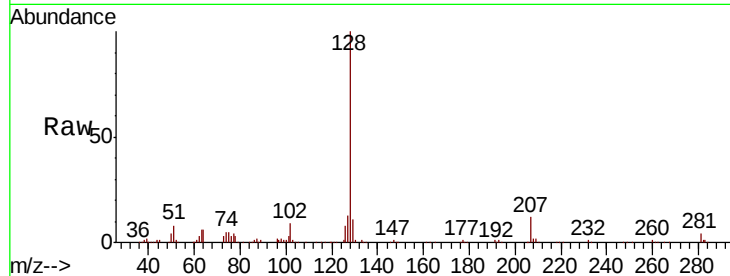




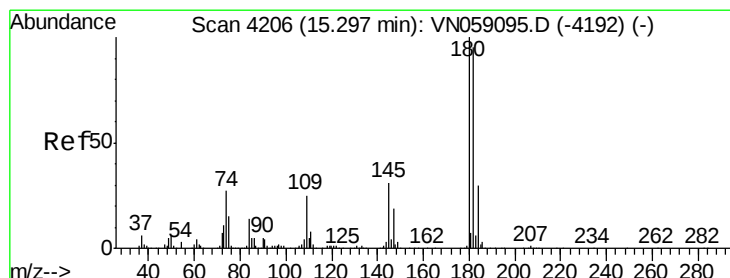
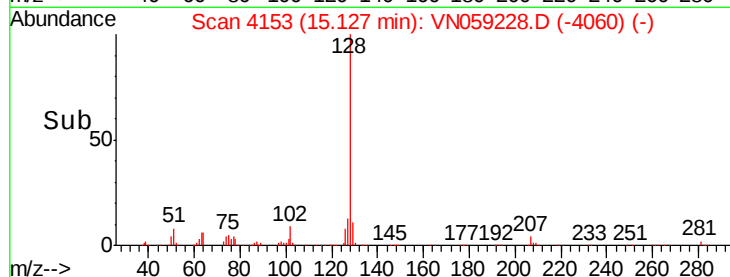
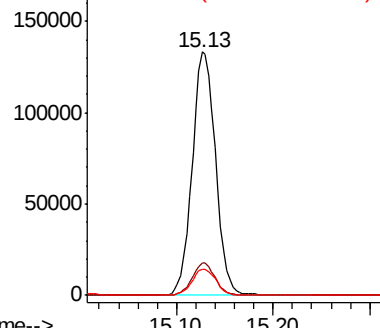
#95
Naphthalene
Concen: 19.606 ug/l
RT: 15.13 min Scan# 4153
Delta R.T. -0.00 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

Instrument :
MSVOA_N
ClientSampleId :
VN1114MBS01

Tot Ion:128 Resp: 223503
Ion Ratio Lower Upper
128 100
127 13.0 10.2 15.2
129 11.0 8.6 12.8

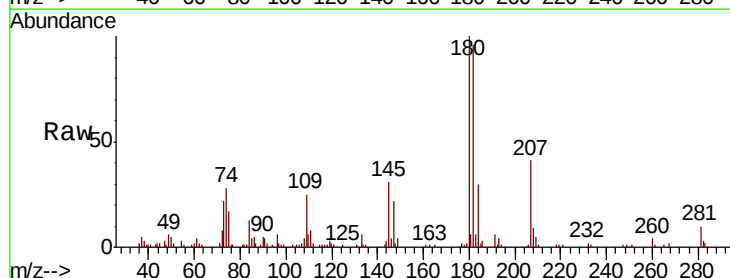


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 18.931 ug/l
RT: 15.30 min Scan# 4206
Delta R.T. -0.00 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

Tgt Ion:180 Resp: 79880
Ion Ratio Lower Upper
180 100
182 96.7 47.3 141.8
145 32.5 15.8 47.3



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

