

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032019\
 Data File : VN054458.D
 Acq On : 20 Mar 2019 11:14
 Operator : JC/SP
 Sample : VSTDIC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

MMDadoda
 3/22/2019 3:16:11 PM

Quant Time: Mar 20 13:10:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 20 12:05:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	503204	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	815312	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	698497	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	303053	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	132421	24.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	49.56%	
35) Dibromofluoromethane	7.59	113	107386	20.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	40.84%	
50) Toluene-d8	10.09	98	402951	20.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	41.50%	
62) 4-Bromofluorobenzene	12.40	95	136501	20.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	40.18%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	103266	21.653	ug/l	100
3) Chloromethane	2.06	50	140588	30.348	ug/l	96
4) Vinyl Chloride	2.19	62	141283	26.683	ug/l	99
5) Bromomethane	2.57	94	85583	23.337	ug/l	94
6) Chloroethane	2.71	64	80321	25.072	ug/l	99
7) Trichlorofluoromethane	3.02	101	170714	24.250	ug/l	99
8) Diethyl Ether	3.41	74	62788	19.572	ug/l	73
9) 1,1,2-Trichlorotrifluoroet	3.75	101	98427	18.658	ug/l	96
10) Methyl Iodide	3.94	142	142715	20.563	ug/l	95
11) Tert butyl alcohol	4.83	59	38678	105.574	ug/l #	87
12) 1,1-Dichloroethene	3.73	96	99838	19.098	ug/l	85
13) Acrolein	3.61	56	45256	130.362	ug/l	99
14) Allyl chloride	4.32	41	181850	27.112	ug/l #	94
15) Acrylonitrile	5.00	53	193356	128.485	ug/l	99
16) Acetone	3.82	43	214652	140.284	ug/l #	84
17) Carbon Disulfide	4.04	76	249950	19.073	ug/l	98
18) Methyl Acetate	4.33	43	82127	26.529	ug/l	92
19) Methyl tert-butyl Ether	5.05	73	293901	22.681	ug/l	96
20) Methylene Chloride	4.55	84	114497	22.789	ug/l	91
21) trans-1,2-Dichloroethene	5.04	96	103610	20.685	ug/l	85
22) Diisopropyl ether	5.96	45	370868	27.704	ug/l #	93
23) Vinyl Acetate	5.90	43	1308738	132.596	ug/l	95
24) 1,1-Dichloroethane	5.85	63	201916	23.491	ug/l	98
25) 2-Butanone	6.85	43	262114	145.952	ug/l	89
26) 2,2-Dichloropropane	6.82	77	141957	18.780	ug/l	98
27) cis-1,2-Dichloroethene	6.83	96	122066	21.844	ug/l	90
28) Bromochloromethane	7.20	49	102093	29.054	ug/l #	78
29) Tetrahydrofuran	7.22	42	161847	140.165	ug/l	88
30) Chloroform	7.37	83	197134	21.979	ug/l	100
31) Cyclohexane	7.65	56	200514	21.672	ug/l	89
32) 1,1,1-Trichloroethane	7.57	97	163884	20.232	ug/l	95
36) 1,1-Dichloropropene	7.79	75	151472	20.174	ug/l	97
37) Ethyl Acetate	6.94	43	110970	25.722	ug/l	97
38) Carbon Tetrachloride	7.77	117	145226	18.444	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	172815	18.707	ug/l	91
40) Benzene	8.04	78	440508	20.502	ug/l	99
41) Methacrylonitrile	7.18	41	64971	26.376	ug/l #	89
42) 1,2-Dichloroethane	8.13	62	160393	22.111	ug/l	98
43) Isopropyl Acetate	8.17	43	177953	23.500	ug/l #	95
44) Trichloroethene	8.83	130	124396	18.637	ug/l	96
45) 1,2-Dichloropropane	9.12	63	121313	22.739	ug/l	98
46) Dibromomethane	9.21	93	70492	19.555	ug/l	91
47) Bromodichloromethane	9.40	83	145191	20.091	ug/l	97
48) Methyl methacrylate	9.20	41	96849	25.202	ug/l #	85
49) 1,4-Dioxane	9.21	88	22780	419.071	ug/l #	90
51) 4-Methyl-2-Pentanone	9.99	43	514659	128.425	ug/l	94
52) Toluene	10.16	92	271468	19.927	ug/l	98
53) t-1,3-Dichloropropene	10.38	75	130335	17.720	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	169281	20.102	ug/l	92
55) 1,1,2-Trichloroethane	10.56	97	96645	19.428	ug/l	99
56) Ethyl methacrylate	10.43	69	127160	21.438	ug/l #	85
57) 1,3-Dichloropropane	10.71	76	170582	20.972	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.70	63	250868	111.653	ug/l	92
59) 2-Hexanone	10.75	43	332955	124.863	ug/l	93
60) Dibromochloromethane	10.90	129	101235	18.081	ug/l	99
61) 1,2-Dibromoethane	11.01	107	97076	19.203	ug/l	99
64) Tetrachloroethene	10.63	164	119001	17.621	ug/l	94
65) Chlorobenzene	11.43	112	284439	18.546	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.51	131	104174	18.697	ug/l	99
67) Ethyl Benzene	11.51	91	503258	19.795	ug/l	99
68) m/p-Xylenes	11.62	106	385267	38.772	ug/l	99
69) o-Xylene	11.95	106	187673	19.374	ug/l	97
70) Styrene	11.96	104	303975	20.009	ug/l	97
71) Bromoform	12.13	173	60637	16.442	ug/l #	98
73) Isopropylbenzene	12.25	105	492562	20.315	ug/l	99
74) N-amyl acetate	12.07	43	148244	27.545	ug/l	92
75) 1,1,2,2-Tetrachloroethane	12.50	83	112226	21.725	ug/l	98
76) 1,2,3-Trichloropropane	12.55	75	98432m	22.087	ug/l	
77) Bromobenzene	12.53	156	118396	18.454	ug/l	87
78) n-propylbenzene	12.59	91	532098	20.225	ug/l	98
79) 2-Chlorotoluene	12.67	91	329358	20.821	ug/l	96
80) 1,3,5-Trimethylbenzene	12.73	105	402335	19.949	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	22483	17.246	ug/l #	80
82) 4-Chlorotoluene	12.77	91	319910	20.253	ug/l	97
83) tert-Butylbenzene	12.99	119	348724	18.786	ug/l	96
84) 1,2,4-Trimethylbenzene	13.04	105	395486	19.989	ug/l	98
85) sec-Butylbenzene	13.17	105	433730	18.017	ug/l	98
86) p-Isopropyltoluene	13.29	119	388861	18.412	ug/l	98
87) 1,3-Dichlorobenzene	13.28	146	199747	18.476	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	192673	18.142	ug/l	98
89) n-Butylbenzene	13.61	91	298634	18.610	ug/l	99
90) Hexachloroethane	13.87	117	58350	16.685	ug/l	91
91) 1,2-Dichlorobenzene	13.65	146	199426	18.869	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.26	75	16484	20.621	ug/l	87

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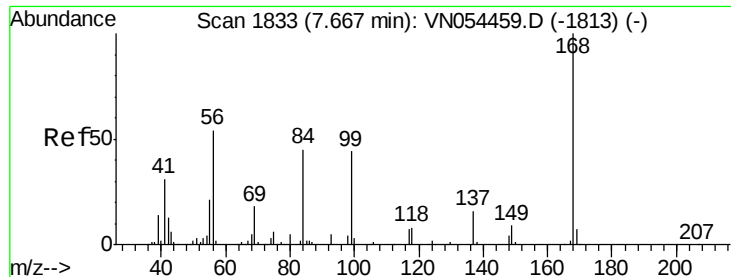
Manual Integrations
APPROVED

MMDadoda
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	95981	17.572	ug/l	99
94) Hexachlorobutadiene	15.01	225	61500	15.277	ug/l	98
95) Naphthalene	15.13	128	206743	18.401	ug/l	98
96) 1,2,3-Trichlorobenzene	15.31	180	95810	17.062	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN054458.D

Acq: 20 Mar 2019 11:14

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion:168 Resp: 503204

Ion Ratio Lower Upper

168 100

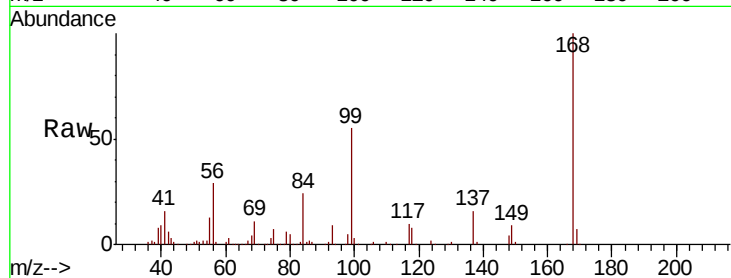
99 53.6 37.1 55.7

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

200000

150000

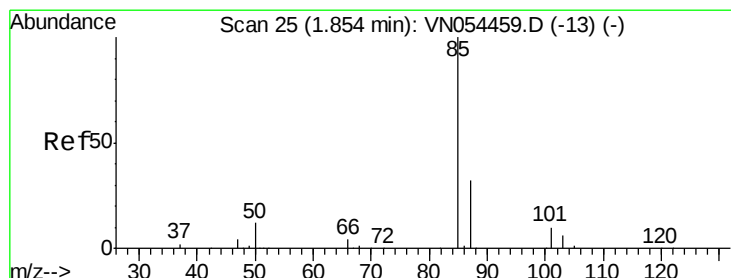
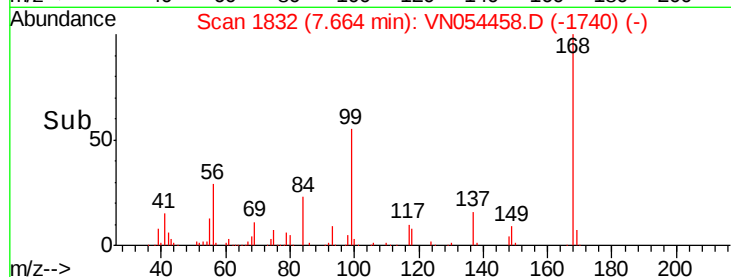
100000

50000

0

7.60 7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 21.653 ug/l

RT: 1.85 min Scan# 25

Delta R.T. -0.00 min

Lab File: VN054458.D

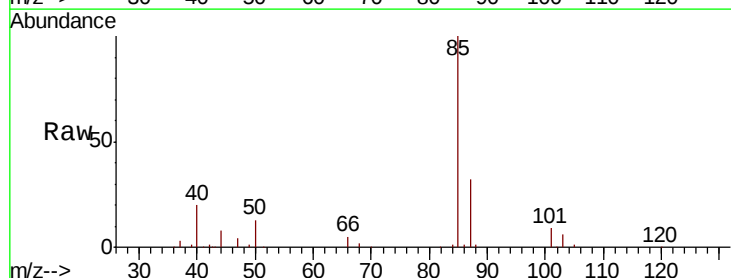
Acq: 20 Mar 2019 11:14

Tgt Ion: 85 Resp: 103266

Ion Ratio Lower Upper

85 100

87 32.0 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

80000

60000

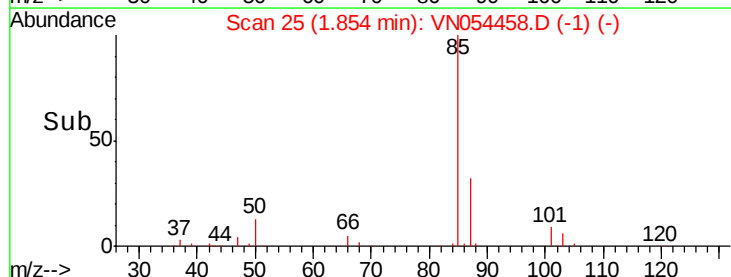
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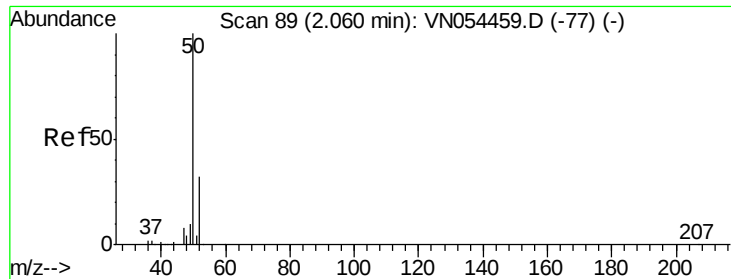
20000

0

1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 30.348 ug/l

RT: 2.06 min Scan# 88

Delta R.T. -0.00 min

Lab File: VN054458.D

Acq: 20 Mar 2019 11:14

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion: 50 Resp: 140588

Ion Ratio Lower Upper

50 100

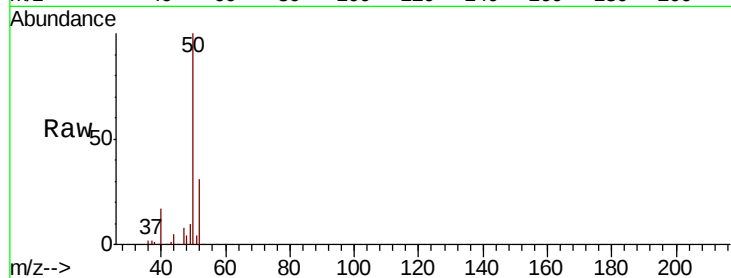
52 30.8 26.4 39.6

Manual Integrations

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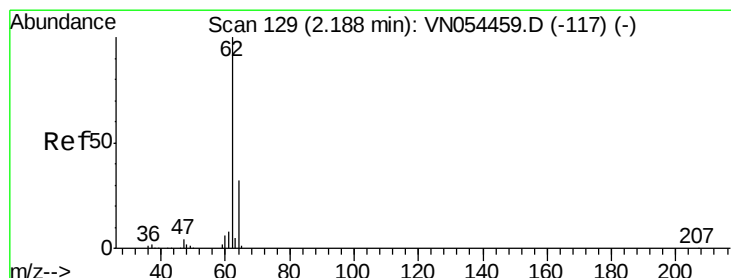
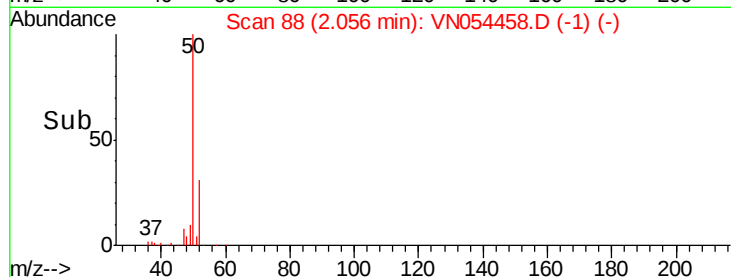
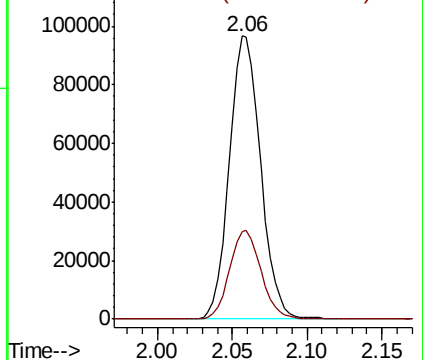
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Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO



#4

Vinyl Chloride

Concen: 26.683 ug/l

RT: 2.19 min Scan# 129

Delta R.T. -0.00 min

Lab File: VN054458.D

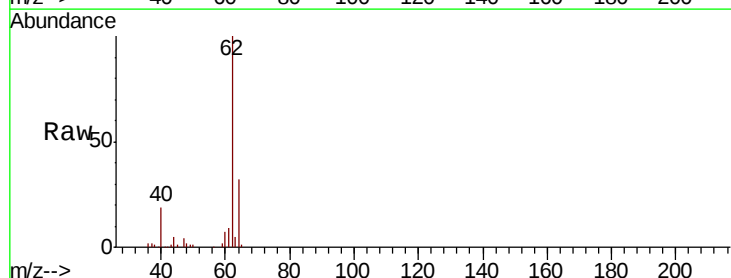
Acq: 20 Mar 2019 11:14

Tgt Ion: 62 Resp: 141283

Ion Ratio Lower Upper

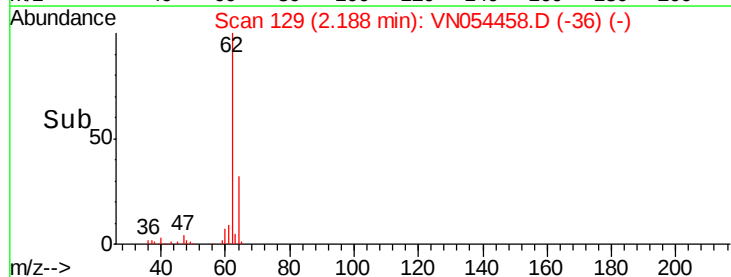
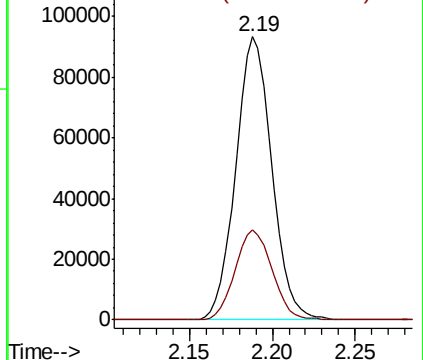
62 100

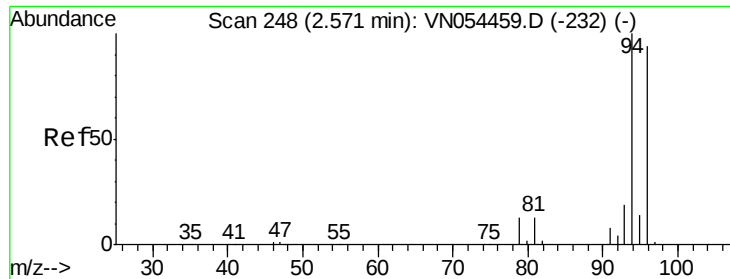
64 31.6 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO





#5

Bromomethane

Concen: 23.337 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.00 min

Lab File: VN054458.D

Acq: 20 Mar 2019 11:14

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion: 94 Resp: 85583

Ion Ratio Lower Upper

94 100

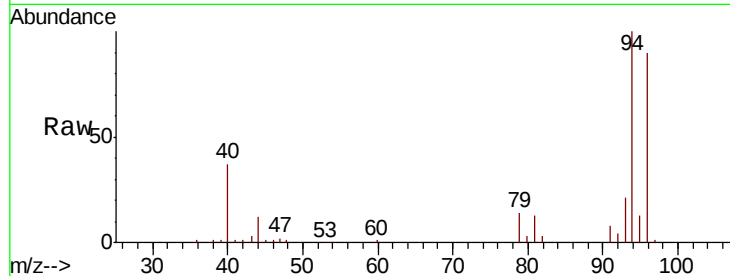
96 90.3 77.0 115.4

Manual Integrations

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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.57

50000

40000

30000

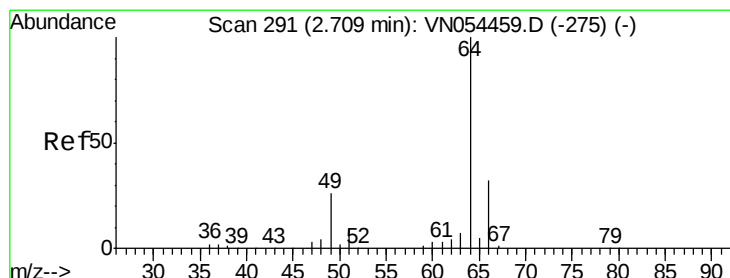
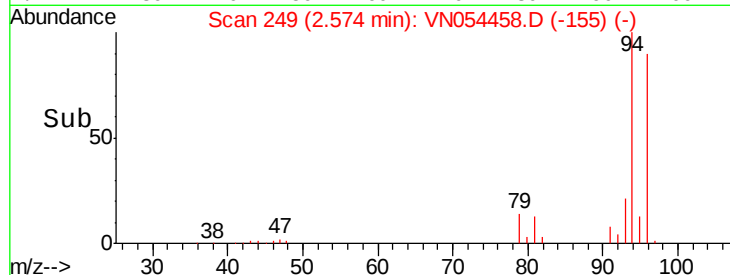
20000

10000

0

Time-->

2.50 2.55 2.60 2.65



#6

Chloroethane

Concen: 25.072 ug/l

RT: 2.71 min Scan# 291

Delta R.T. -0.00 min

Lab File: VN054458.D

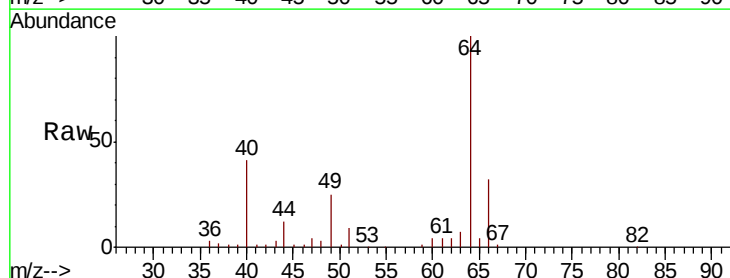
Acq: 20 Mar 2019 11:14

Tgt Ion: 64 Resp: 80321

Ion Ratio Lower Upper

64 100

66 31.7 25.7 38.5



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

2.71

50000

40000

30000

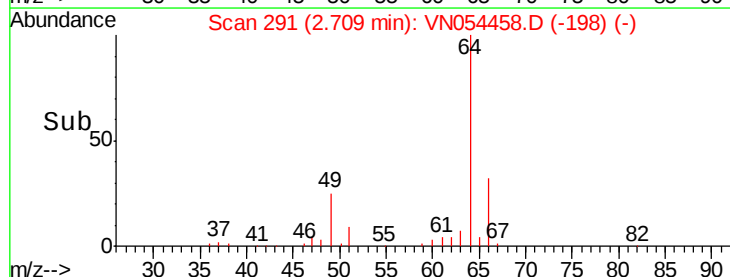
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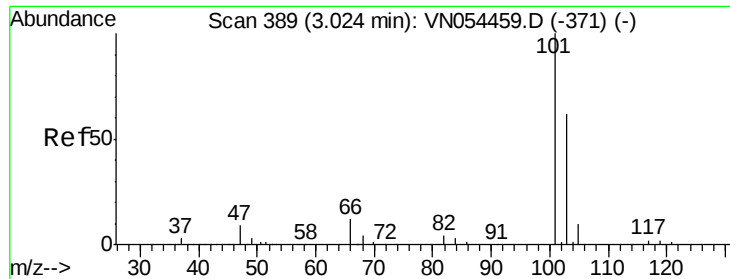
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Time-->

2.65 2.70 2.75 2.80





#7

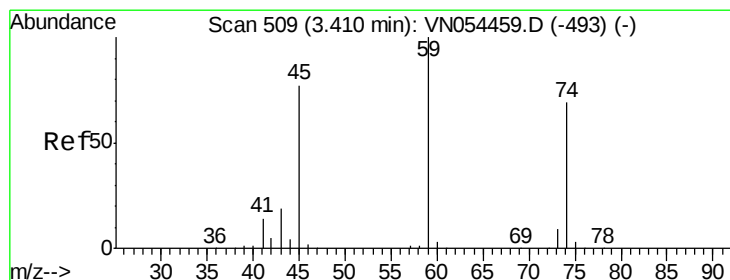
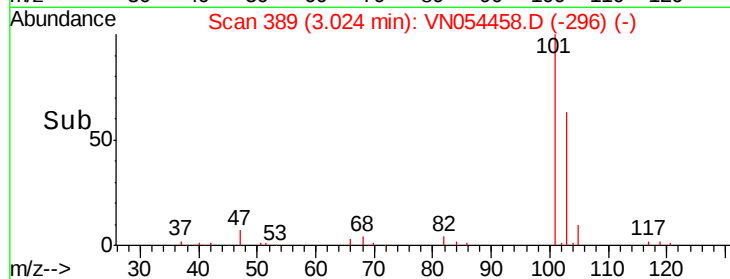
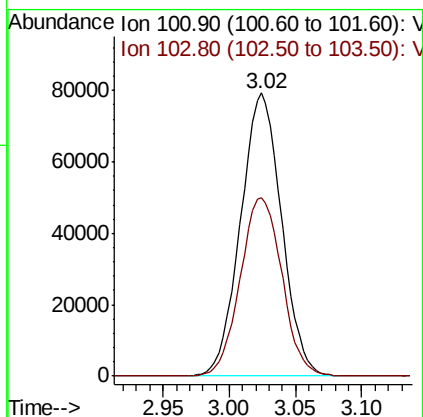
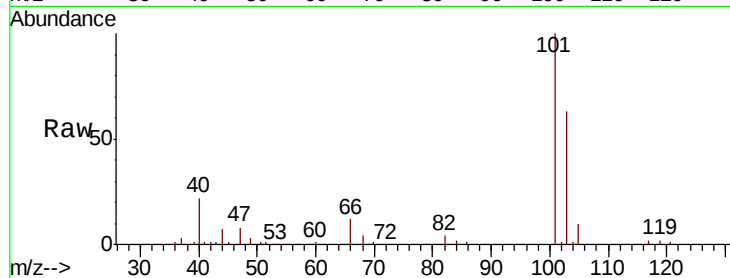
Trichlorofluoromethane
 Concen: 24.250 ug/l
 RT: 3.02 min Scan# 389
 Delta R.T. -0.00 min
 Lab File: VN054458.D
 Acq: 20 Mar 2019 11:14

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 VSTDIC020

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.2	51.4	77.2

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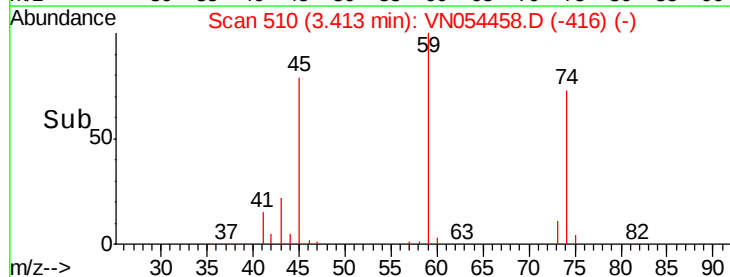
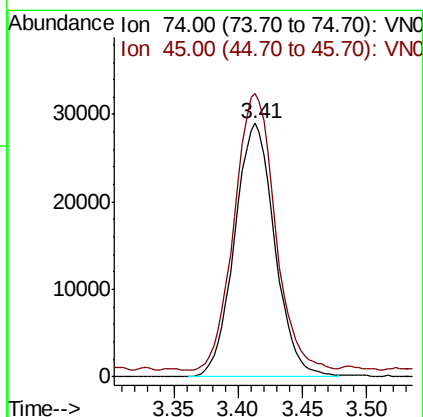
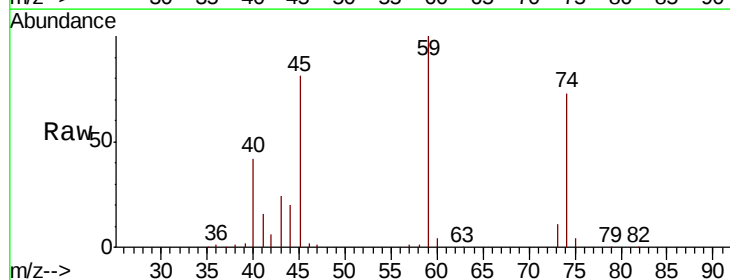
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 3/22/2019 3:16:11 PM

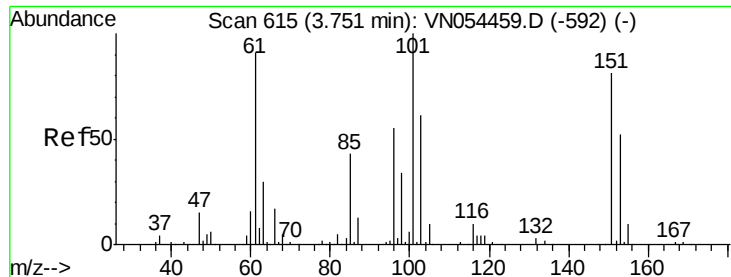


#8

Diethyl Ether
 Concen: 19.572 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VN054458.D
 Acq: 20 Mar 2019 11:14

Tgt Ion	Ratio	Lower	Upper
74	100		
45	111.2	43.1	129.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.658 ug/l

RT: 3.75 min Scan# 615

Delta R.T. -0.00 min

Lab File: VN054458.D

Acq: 20 Mar 2019 11:14

Instrument :

MSVOA_N

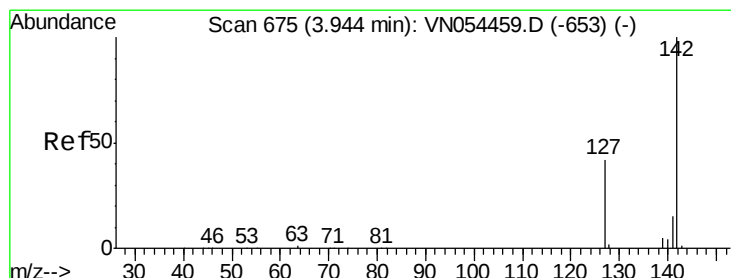
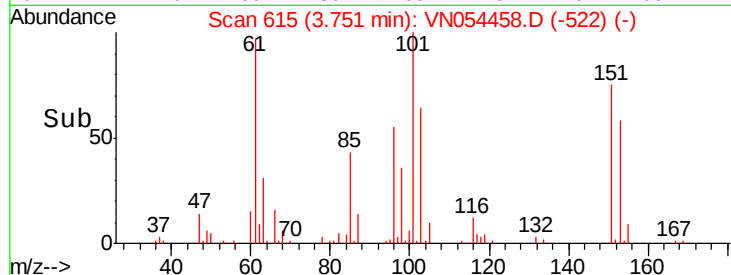
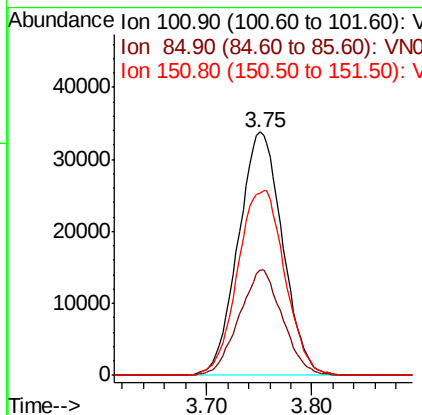
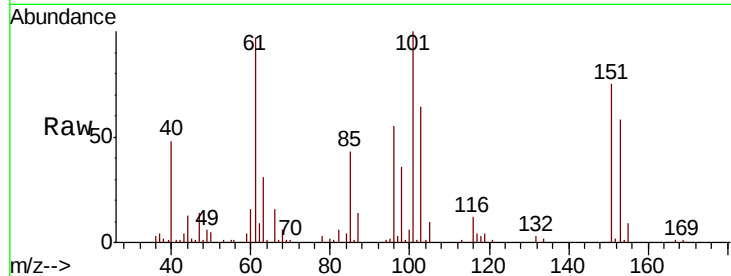
ClientSampleId :

VSTDIC020

Tot Ion:	101	Resp:	98427
Ion Ratio	Lower	Upper	
101	100		
85	42.5	32.4	48.6
151	81.0	68.2	102.2

Manual Integrations
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#10

Methyl Iodide

Concen: 20.563 ug/l

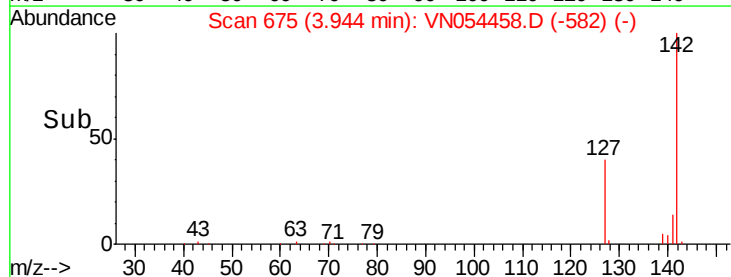
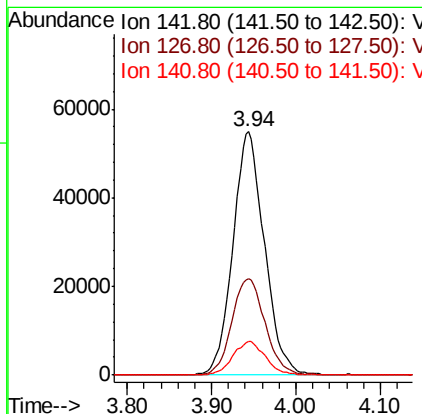
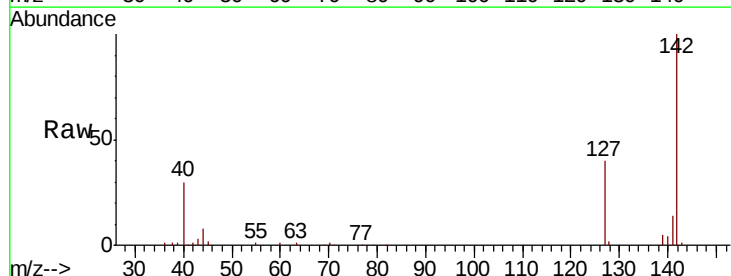
RT: 3.94 min Scan# 675

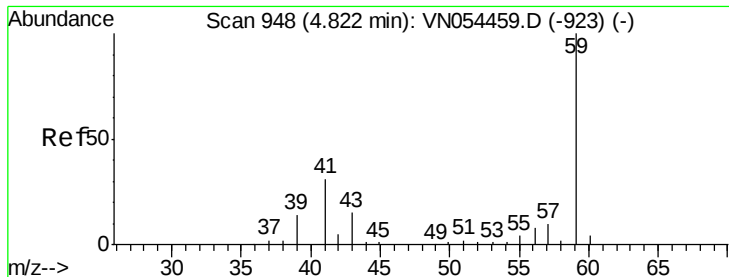
Delta R.T. -0.00 min

Lab File: VN054458.D

Acq: 20 Mar 2019 11:14

Tgt Ion:	142	Resp:	142715
Ion Ratio	Lower	Upper	
142	100		
127	41.5	30.3	45.5
141	14.1	11.2	16.8





#11

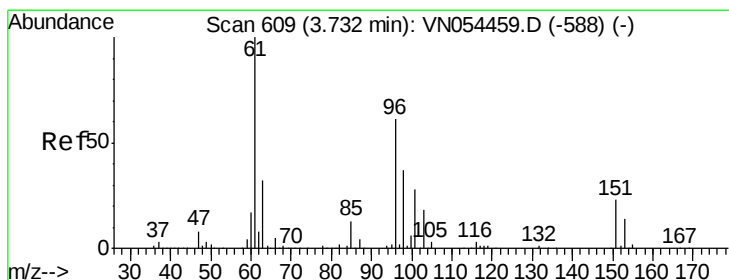
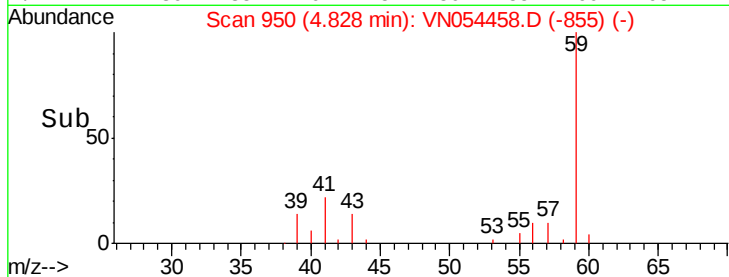
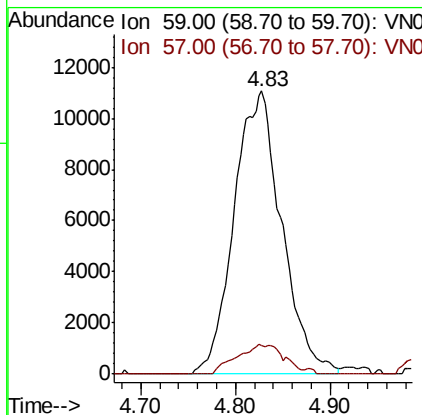
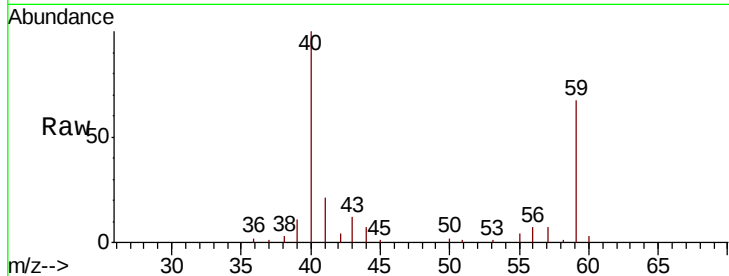
Tert butyl alcohol
 Concen: 105.574 ug/l
 RT: 4.83 min Scan# 950
 Delta R.T. 0.01 min
 Lab File: VN054458.D
 Acq: 20 Mar 2019 11:14

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
59	100		
57	6.2	9.0	13.6#

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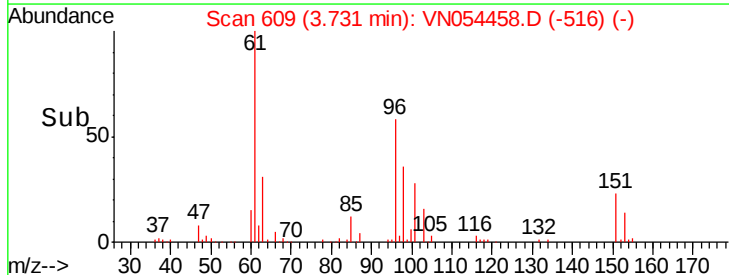
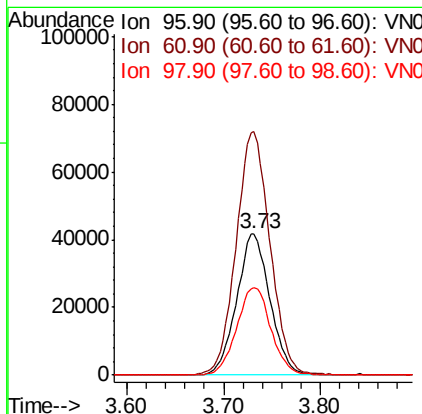
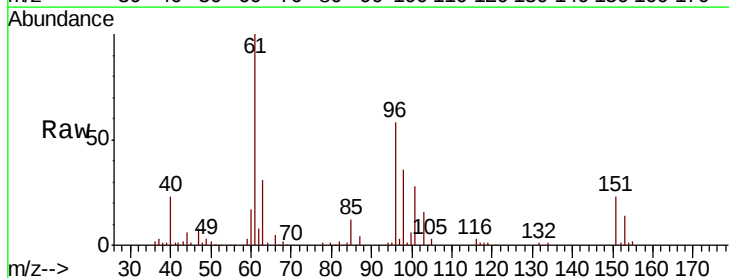
MMDadoda
 3/22/2019 3:16:11 PM

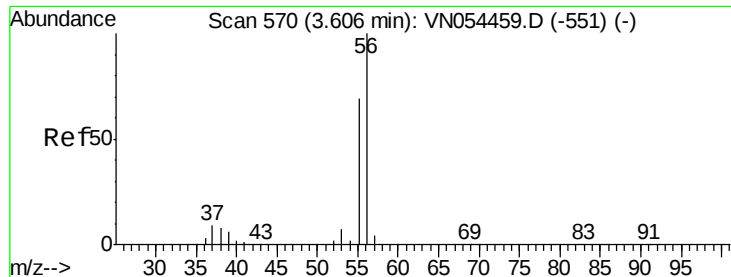


#12

1,1-Dichloroethene
 Concen: 19.098 ug/l
 RT: 3.73 min Scan# 609
 Delta R.T. -0.00 min
 Lab File: VN054458.D
 Acq: 20 Mar 2019 11:14

Tgt Ion	Ratio	Lower	Upper
96	100		
61	171.7	116.5	174.7
98	61.3	51.0	76.4





#13

Acrolein

Concen: 130.362 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN054458.D

Acq: 20 Mar 2019 11:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 56 Resp: 45256

Ion Ratio Lower Upper

56 100

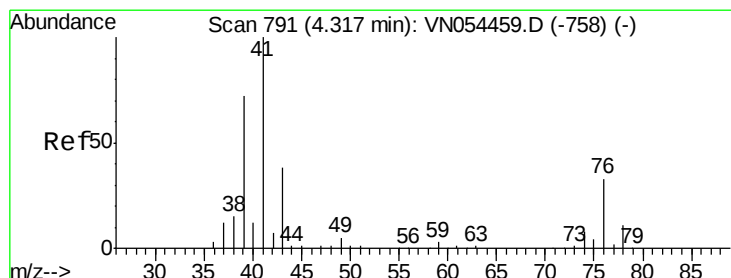
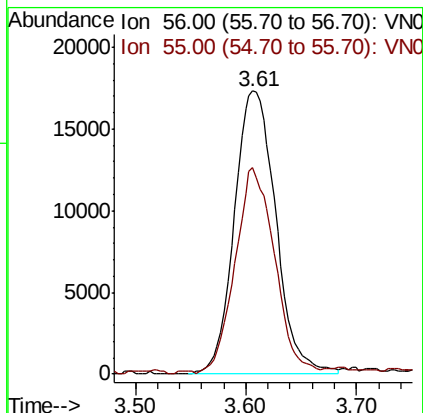
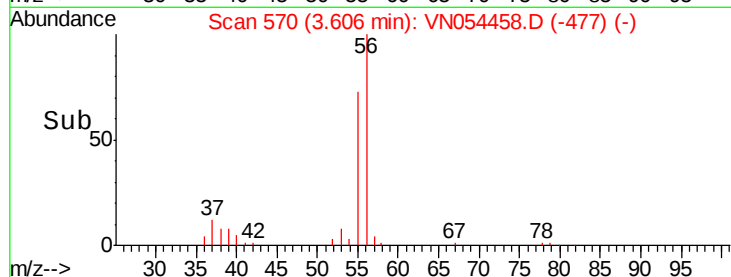
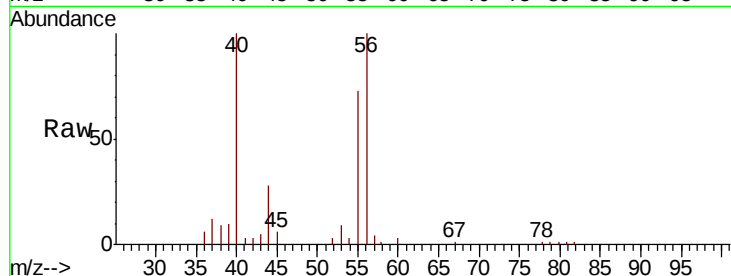
55 69.9 56.7 85.1

Manual Integrations

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#14

Allyl chloride

Concen: 27.112 ug/l

RT: 4.32 min Scan# 791

Delta R.T. -0.00 min

Lab File: VN054458.D

Acq: 20 Mar 2019 11:14

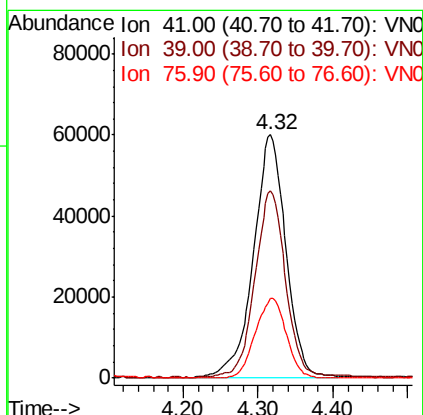
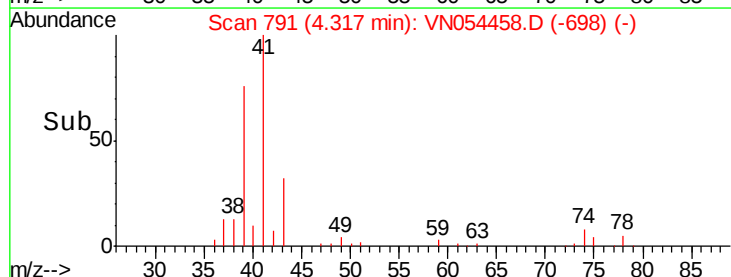
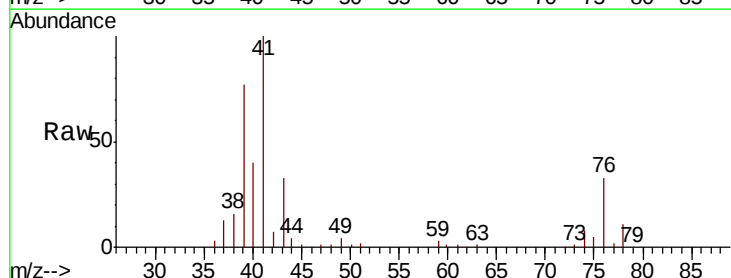
Tgt Ion: 41 Resp: 181850

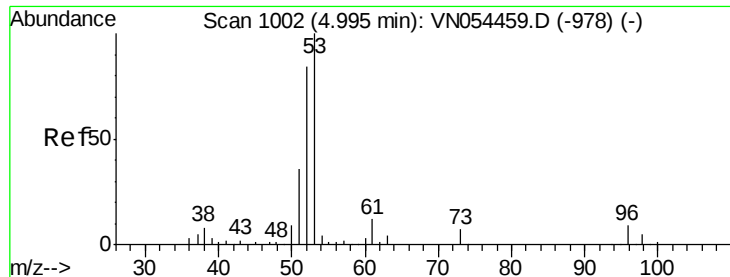
Ion Ratio Lower Upper

41 100

39 71.7 58.2 87.4

76 31.1 31.7 47.5#





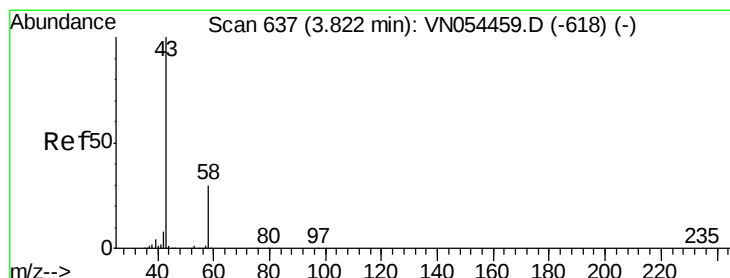
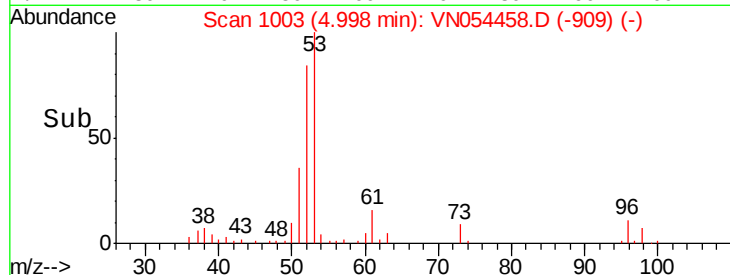
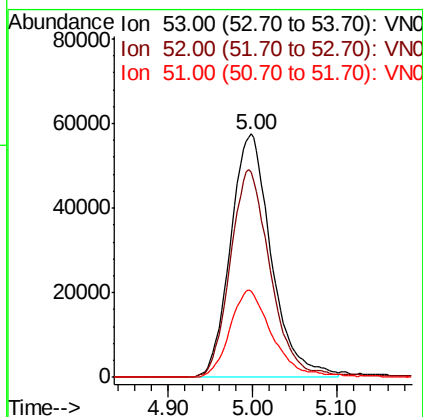
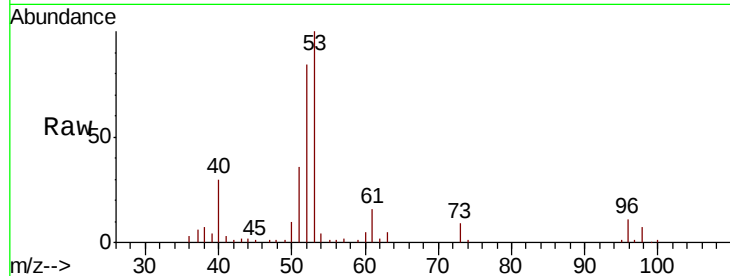
#15
 Acrylonitrile
 Concen: 128.485 ug/l
 RT: 5.00 min Scan# 1003
 Delta R.T. 0.00 min
 Lab File: VN054458.D
 Acq: 20 Mar 2019 11:14

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
53	100		
52	83.7	66.4	99.6
51	36.8	29.6	44.4

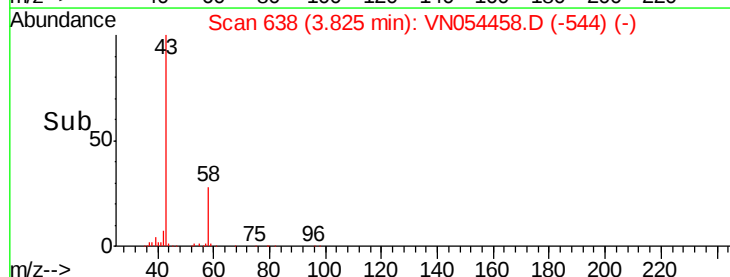
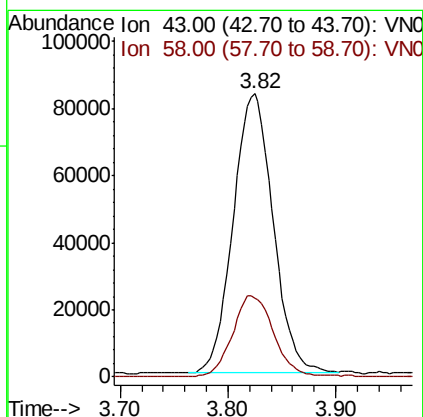
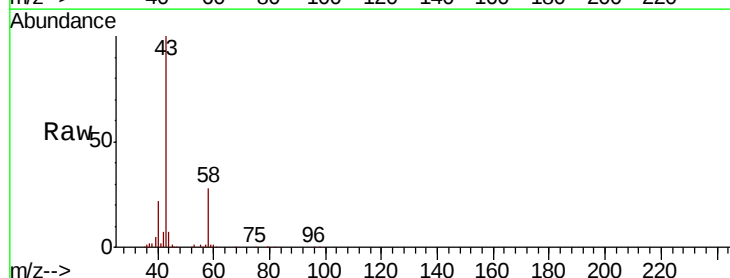
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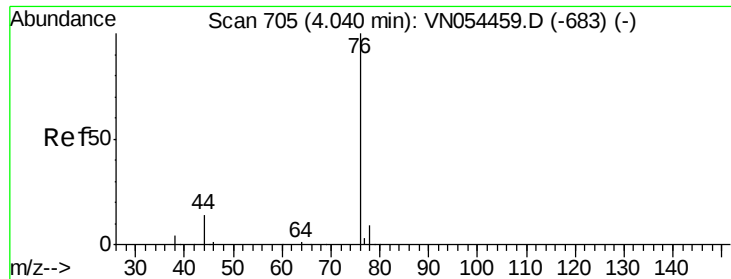
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#16
 Acetone
 Concen: 140.284 ug/l
 RT: 3.82 min Scan# 638
 Delta R.T. 0.00 min
 Lab File: VN054458.D
 Acq: 20 Mar 2019 11:14

Tgt Ion	Ratio	Lower	Upper
43	100		
58	28.1	29.9	44.9#





#17

Carbon Disulfide

Concen: 19.073 ug/l

RT: 4.04 min Scan# 705

Delta R.T. -0.00 min

Lab File: VN054458.D

Acq: 20 Mar 2019 11:14

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion: 76 Resp: 249950

Ion Ratio Lower Upper

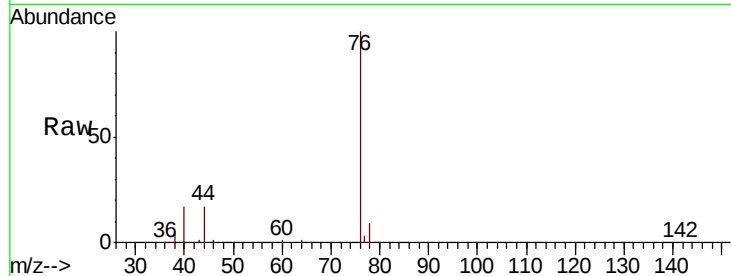
76 100

78 8.8 7.5 11.3

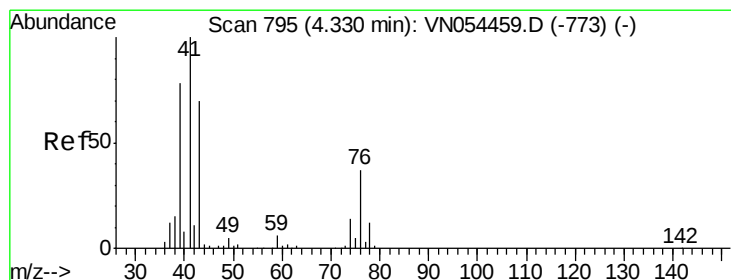
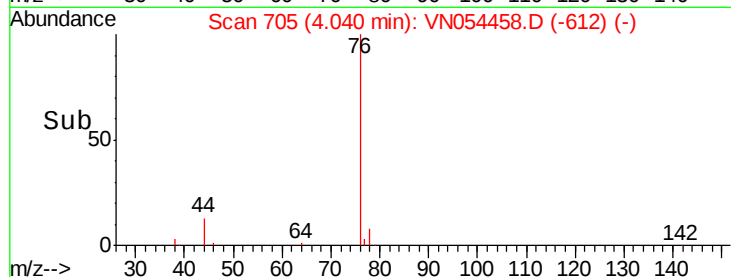
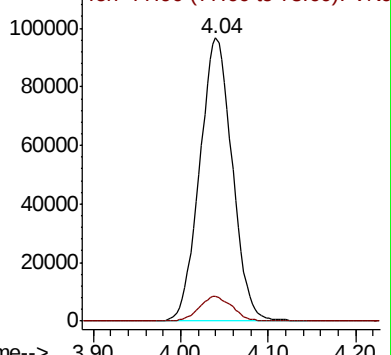
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Abundance Ion 75.90 (75.60 to 76.60): VN054458.D (-612) (-)



#18

Methyl Acetate

Concen: 26.529 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.00 min

Lab File: VN054458.D

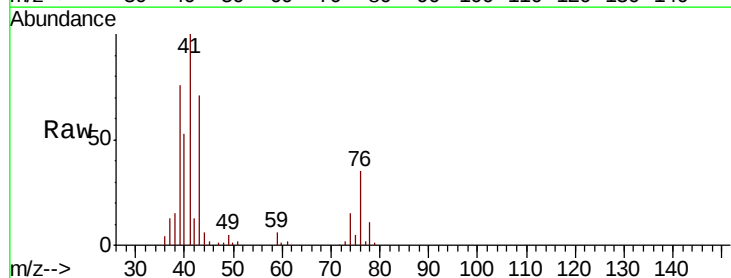
Acq: 20 Mar 2019 11:14

Tgt Ion: 43 Resp: 82127

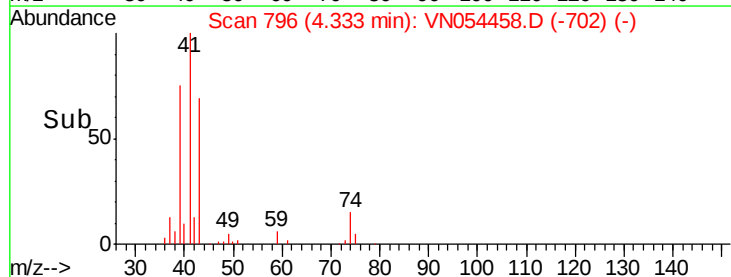
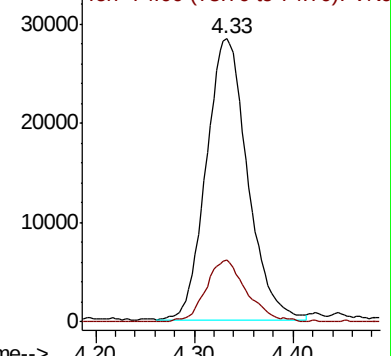
Ion Ratio Lower Upper

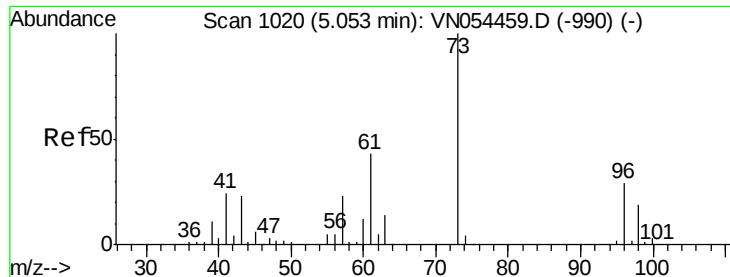
43 100

74 21.8 20.8 31.2



Abundance Ion 43.00 (42.70 to 43.70): VN054458.D (-702) (-)





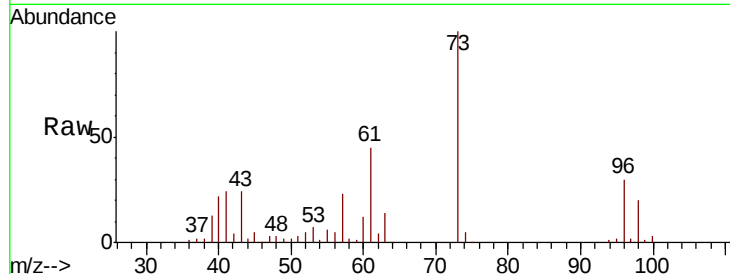
#19
Methvl tert-butvl Ether
Concen: 22.681 ug/l
RT: 5.05 min Scan# 1020
Delta R.T. -0.00 min
Lab File: VN054458.D
Acq: 20 Mar 2019 11:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

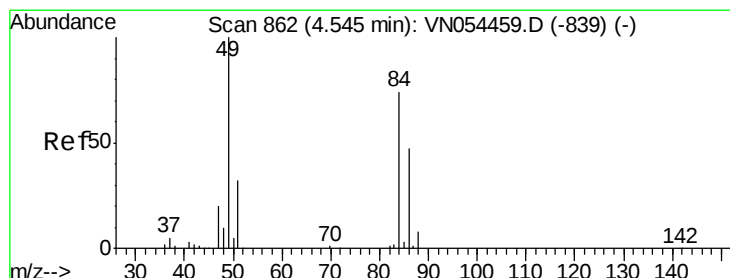
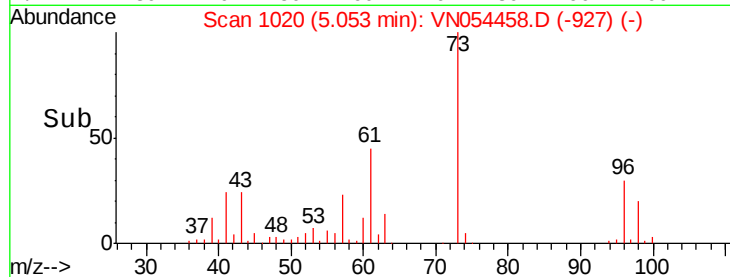
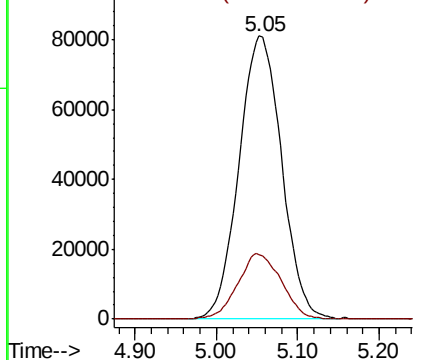
Tot Ion: 73 Resp: 293901
Ion Ratio Lower Upper
73 100
57 23.0 16.8 25.2

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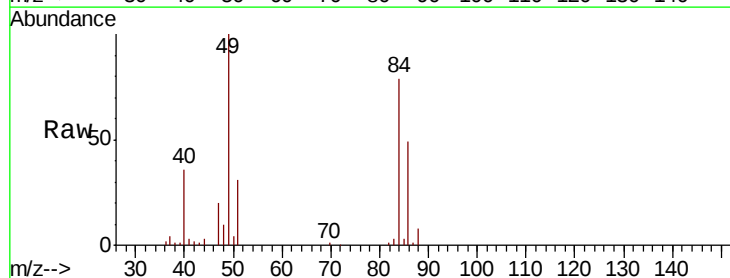


Abundance Ion 73.00 (72.70 to 73.70): VN0
Ion 57.00 (56.70 to 57.70): VN0

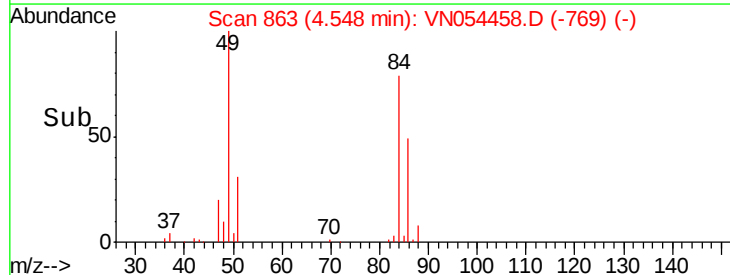
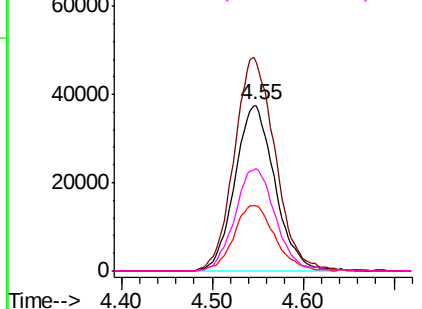


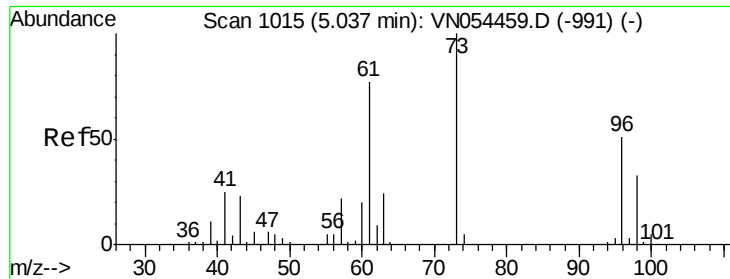
#20
Methylene Chloride
Concen: 22.789 ug/l
RT: 4.55 min Scan# 863
Delta R.T. 0.00 min
Lab File: VN054458.D
Acq: 20 Mar 2019 11:14

Tgt Ion: 84 Resp: 114497
Ion Ratio Lower Upper
84 100
49 126.3 89.7 134.5
51 39.3 28.2 42.4
86 61.9 50.8 76.2



Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0





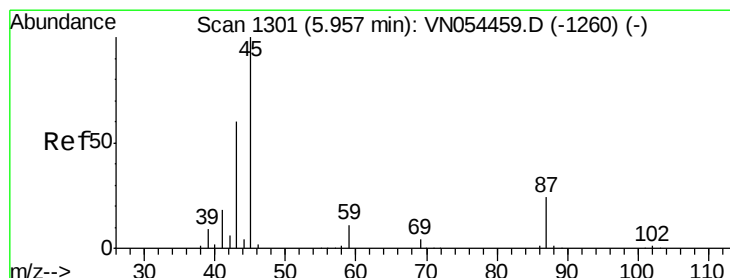
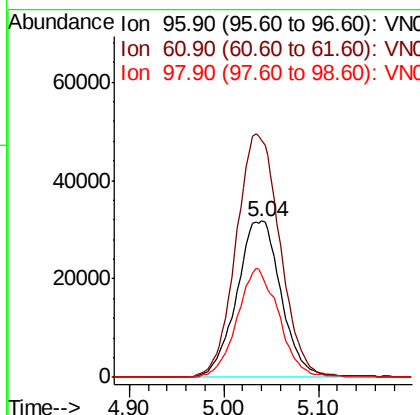
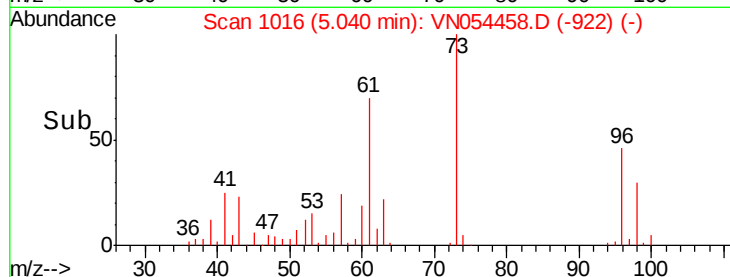
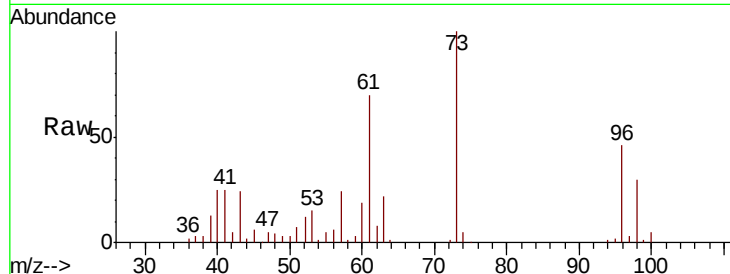
#21
trans-1,2-Dichloroethene
Concen: 20.685 ug/l
RT: 5.04 min Scan# 1016
Delta R.T. 0.00 min
Lab File: VN054458.D
Acq: 20 Mar 2019 11:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
96	100		
61	152.0	102.8	154.2
98	65.5	50.0	75.0

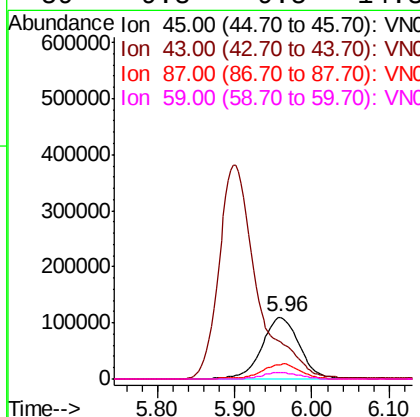
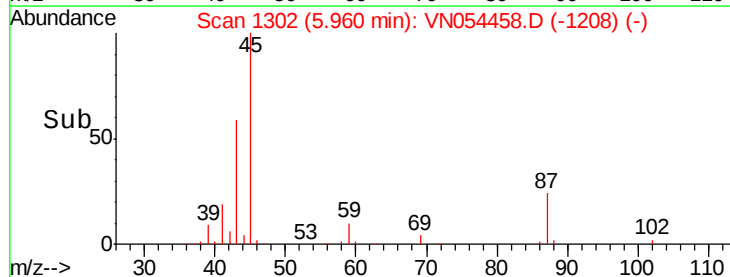
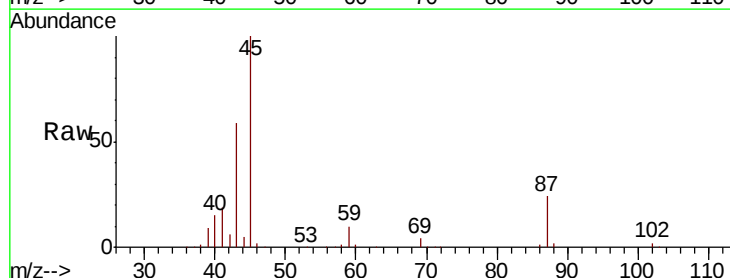
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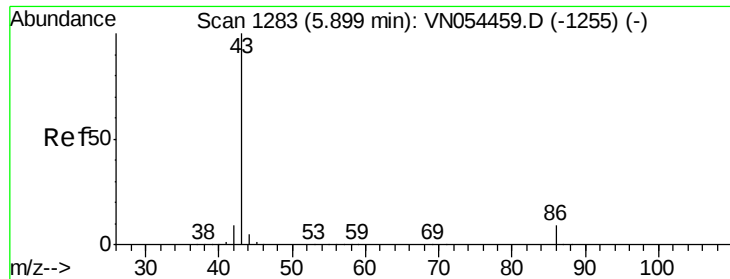
MMDadoda
3/22/2019 3:16:11 PM



#22
Diisopropyl ether
Concen: 27.704 ug/l
RT: 5.96 min Scan# 1302
Delta R.T. 0.00 min
Lab File: VN054458.D
Acq: 20 Mar 2019 11:14

Tgt Ion	Ratio	Lower	Upper
45	100		
43	57.5	48.2	72.2
87	23.0	24.9	37.3#
59	9.8	9.5	14.3





#23

Vinyl Acetate

Concen: 132.596 ug/l

RT: 5.90 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VN054458.D

Acq: 20 Mar 2019 11:14

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion: 43 Resp: 1308738

Ion Ratio Lower Upper

43 100

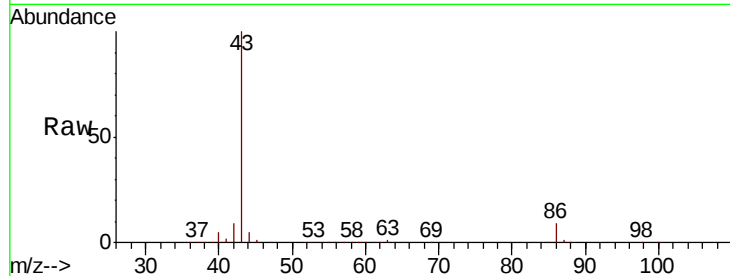
86 9.3 9.1 13.7

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0

5.90

400000

300000

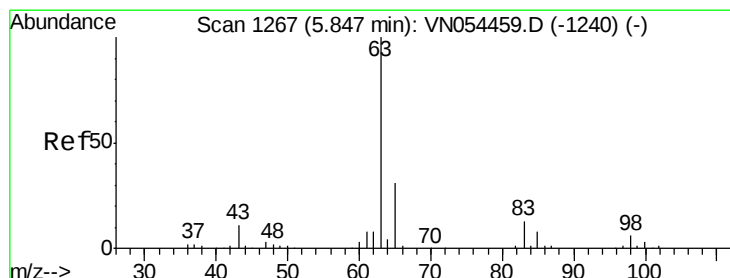
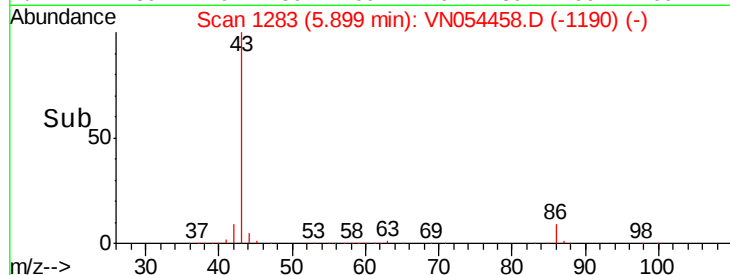
200000

100000

0

5.70 5.80 5.90 6.00 6.10

Time-->



#24

1,1-Dichloroethane

Concen: 23.491 ug/l

RT: 5.85 min Scan# 1267

Delta R.T. -0.00 min

Lab File: VN054458.D

Acq: 20 Mar 2019 11:14

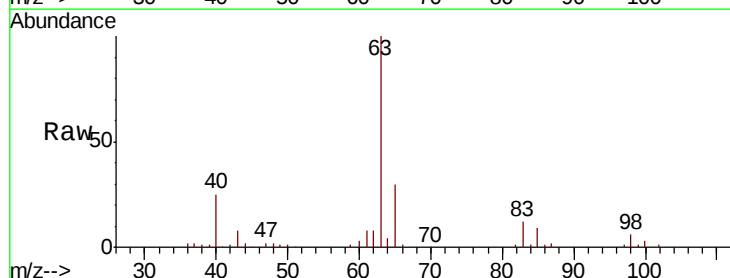
Tgt Ion: 63 Resp: 201916

Ion Ratio Lower Upper

63 100

98 6.2 3.5 10.5

100 3.4 2.0 6.0



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0

80000

60000

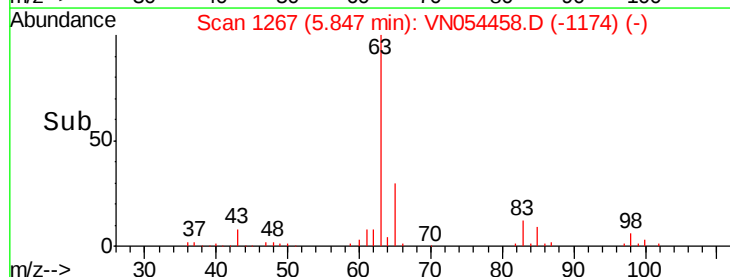
40000

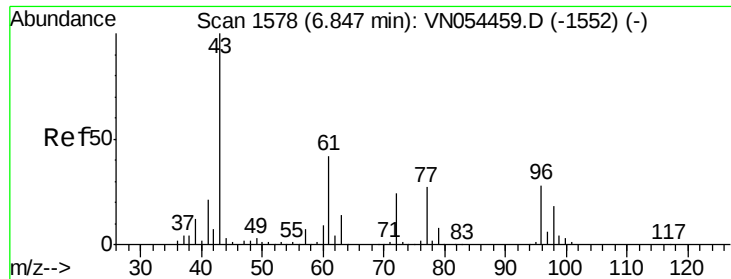
20000

0

5.70 5.80 5.90 6.00

Time-->





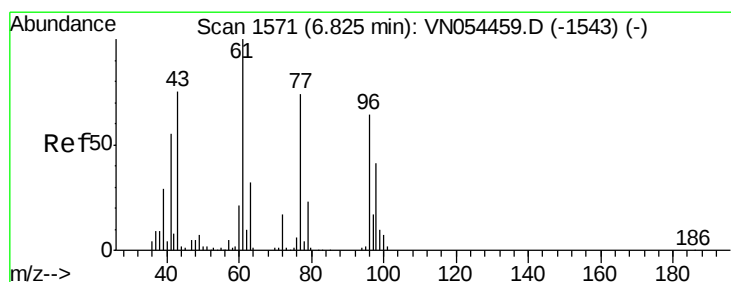
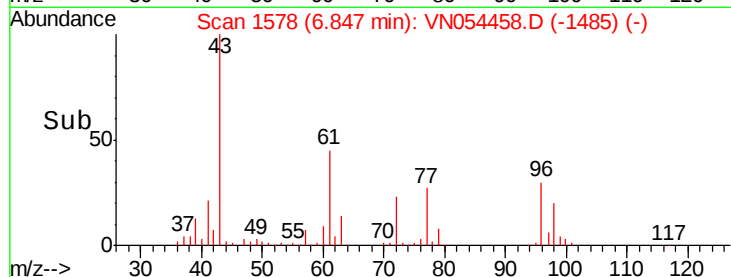
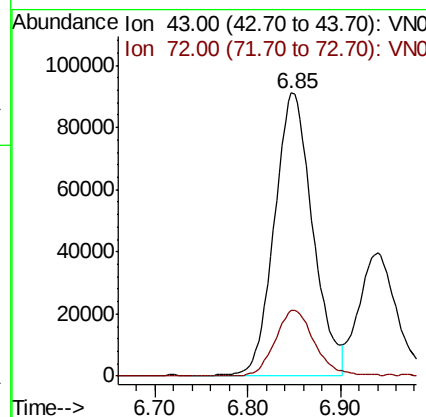
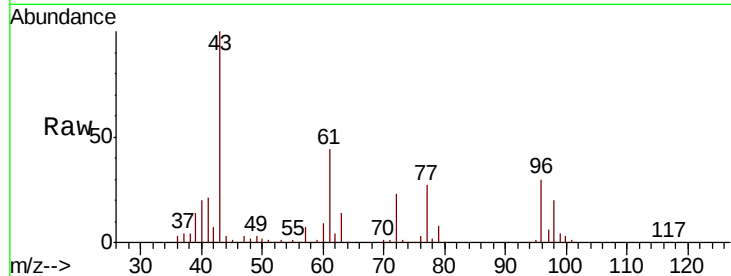
#25
2-Butanone
Concen: 145.952 ug/l
RT: 6.85 min Scan# 1578
Delta R.T. -0.00 min
Lab File: VN054458.D
Acq: 20 Mar 2019 11:14

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion: 43 Resp: 262114
Ion Ratio Lower Upper
43 100
72 23.1 23.0 34.6

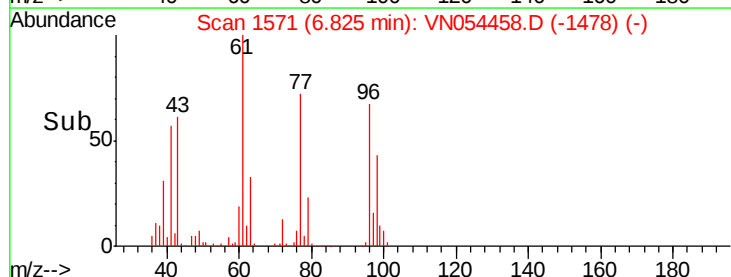
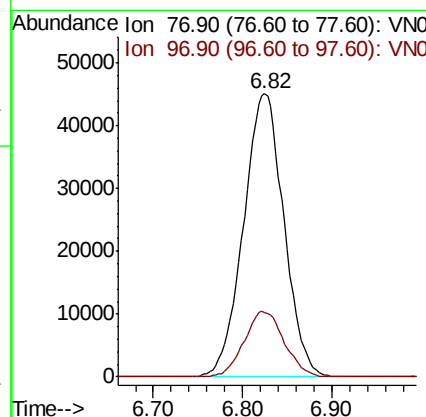
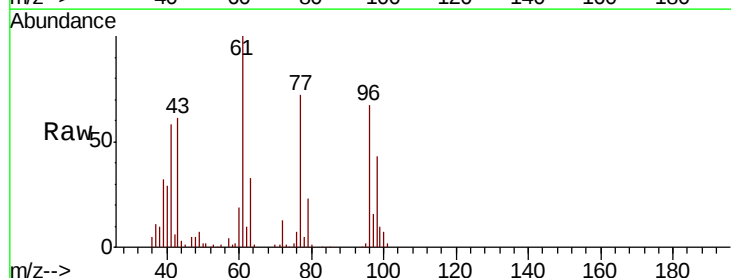
Manual Integrations
APPROVED

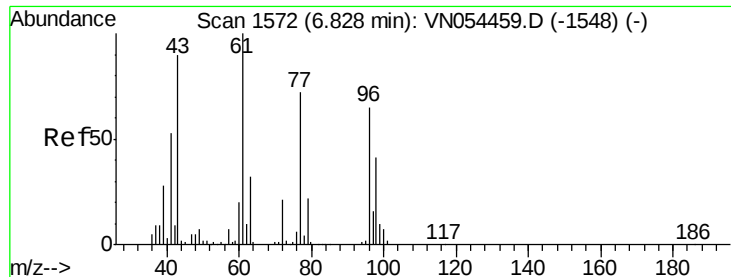
MMDadoda
3/22/2019 3:16:11 PM



#26
2,2-Dichloropropane
Concen: 18.780 ug/l
RT: 6.82 min Scan# 1571
Delta R.T. -0.00 min
Lab File: VN054458.D
Acq: 20 Mar 2019 11:14

Tgt Ion: 77 Resp: 141957
Ion Ratio Lower Upper
77 100
97 22.8 11.9 35.9





#27

cis-1,2-Dichloroethene

Concen: 21.844 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. -0.00 min

Lab File: VN054458.D

Acq: 20 Mar 2019 11:14

Instrument :

MSVOA_N

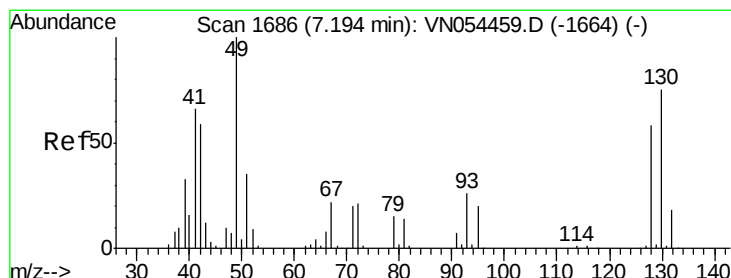
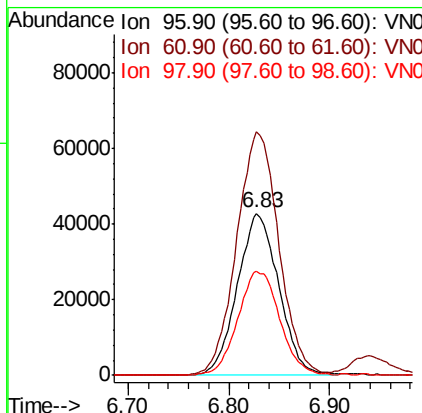
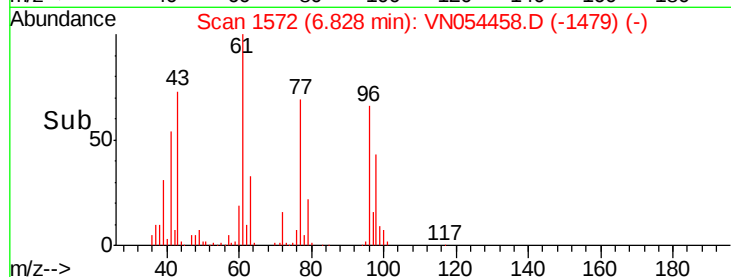
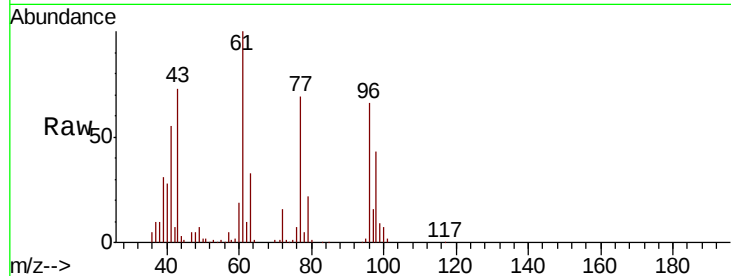
ClientSampleId :

VSTDIC020

Tot Ion:	96	Resp:	122066
Ion	Ratio	Lower	Upper
96	100		
61	153.2	0.0	273.0
98	65.1	0.0	130.6

Manual Integrations
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MMDadoda
3/22/2019 3:16:11 PM



#28

Bromochloromethane

Concen: 29.054 ug/l

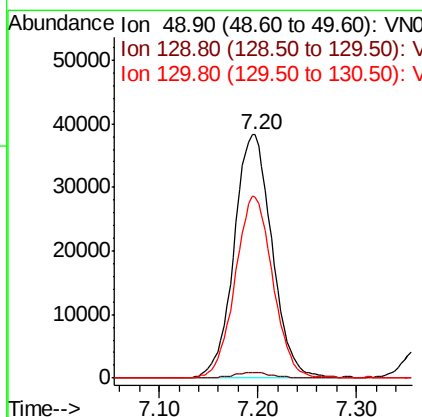
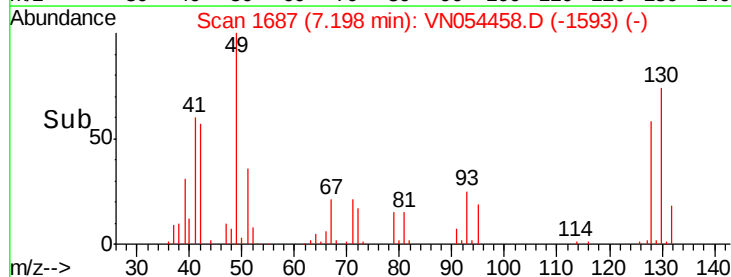
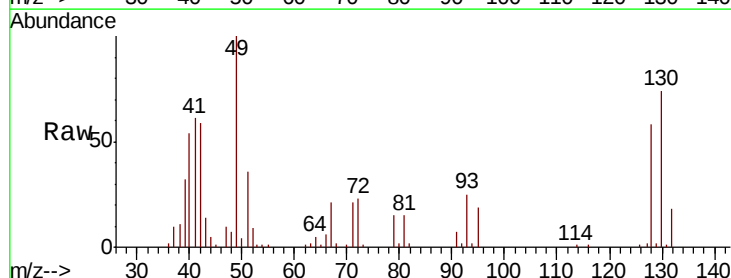
RT: 7.20 min Scan# 1687

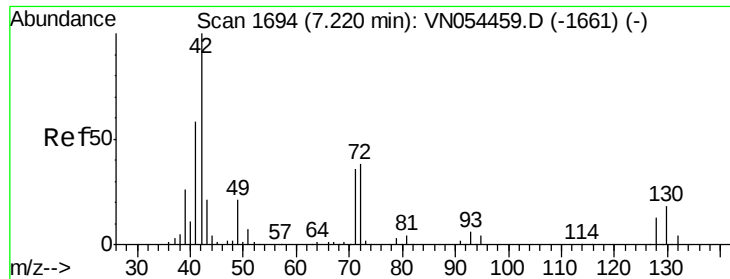
Delta R.T. 0.00 min

Lab File: VN054458.D

Acq: 20 Mar 2019 11:14

Tgt Ion:	49	Resp:	102093
Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.6
130	74.0	76.7	115.1#





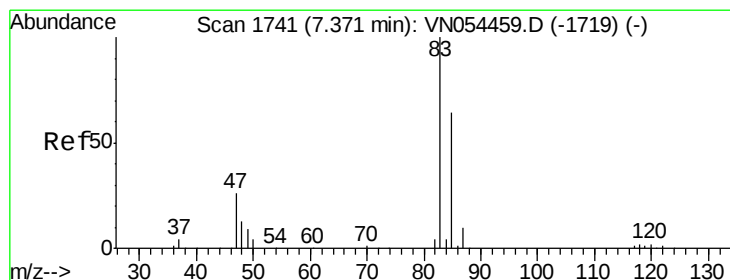
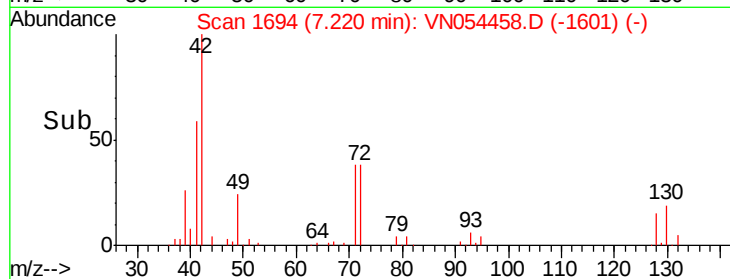
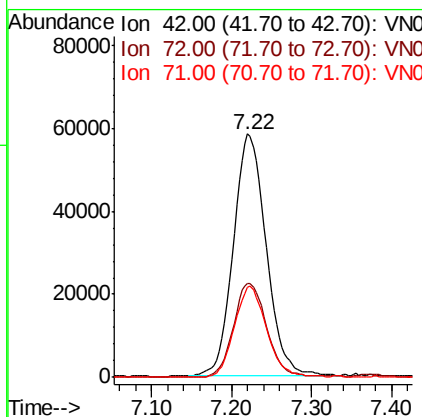
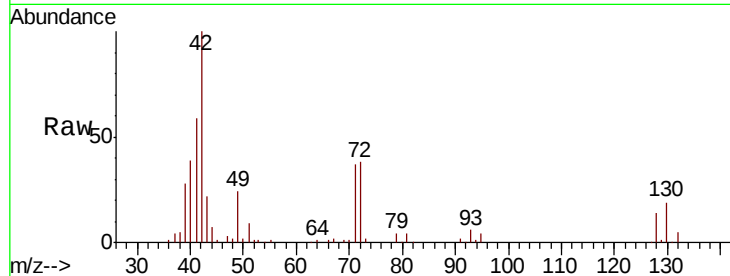
#29
Tetrahydrofuran
Concen: 140.165 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. -0.00 min
Lab File: VN054458.D
Acq: 20 Mar 2019 11:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
42	100		
72	39.3	37.8	56.6
71	37.0	36.2	54.2

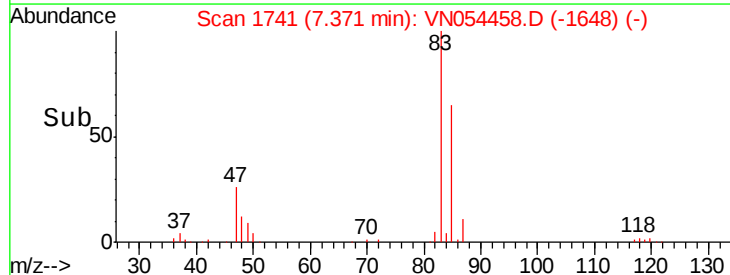
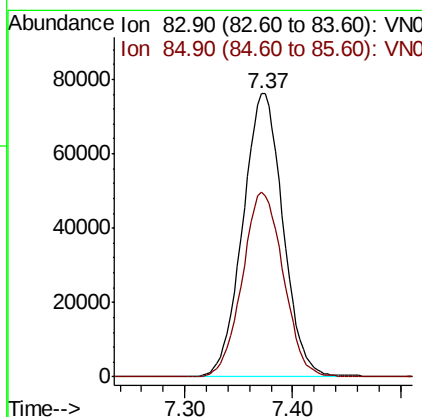
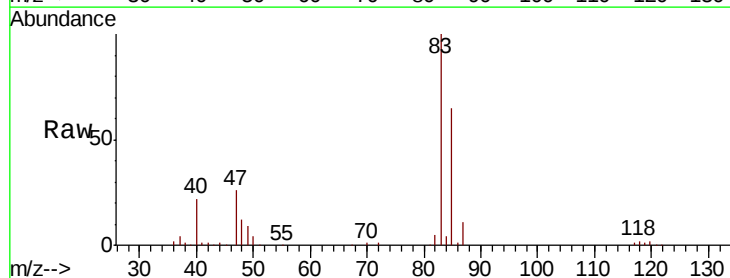
Manual Integrations
APPROVED

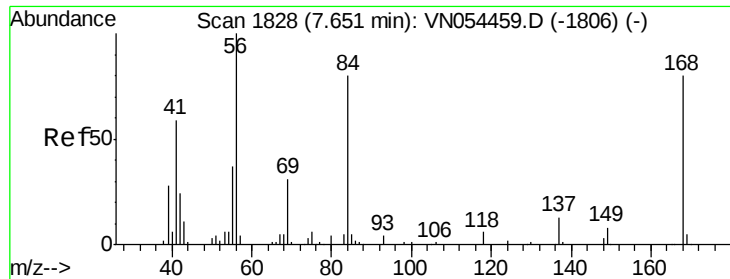
MMDadoda
3/22/2019 3:16:11 PM



#30
Chloroform
Concen: 21.979 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN054458.D
Acq: 20 Mar 2019 11:14

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.1	52.2	78.4





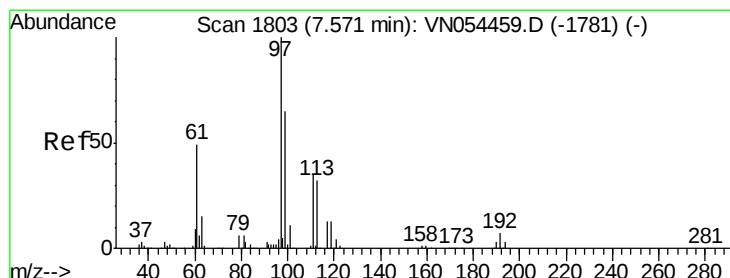
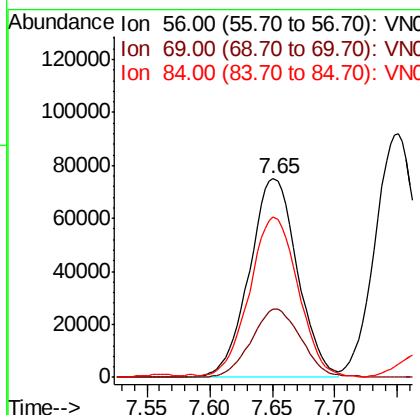
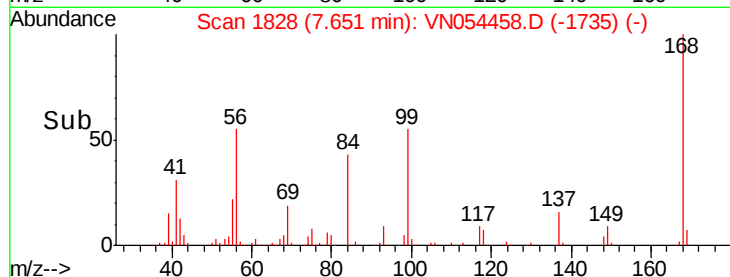
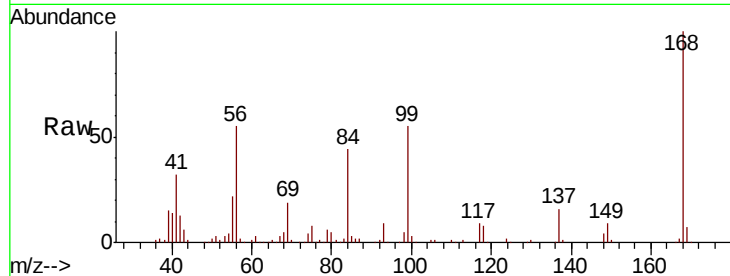
#31
Cyclohexane
Concen: 21.672 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. -0.00 min
Lab File: VN054458.D
Acq: 20 Mar 2019 11:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
56	100		
69	34.2	27.8	41.6
84	79.3	74.6	111.8

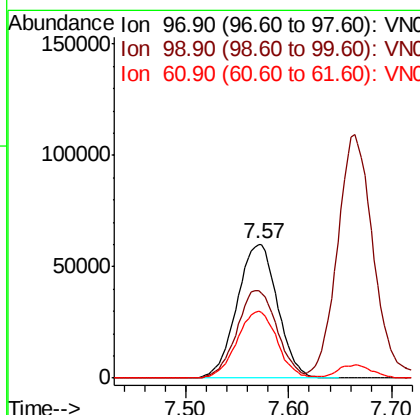
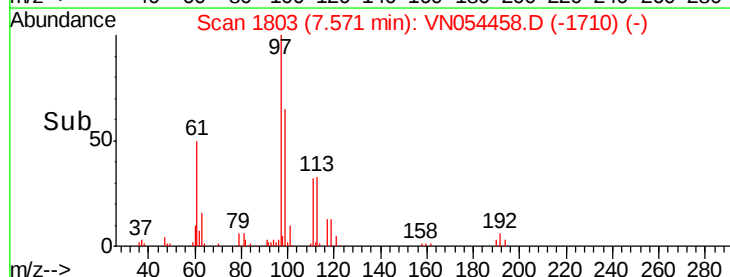
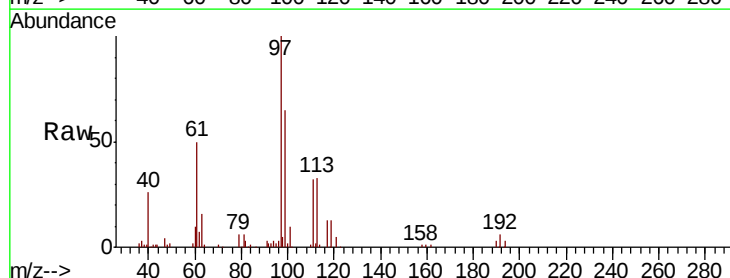
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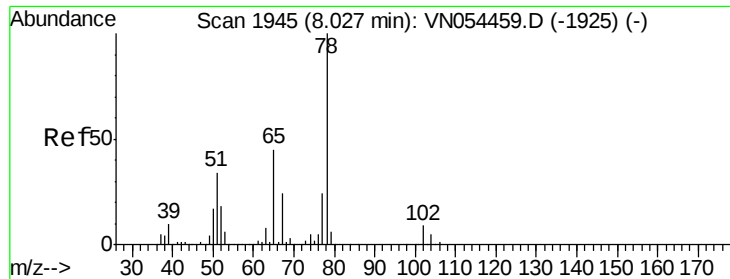
MMDadoda
3/22/2019 3:16:11 PM



#32
1,1,1-Trichloroethane
Concen: 20.232 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. -0.00 min
Lab File: VN054458.D
Acq: 20 Mar 2019 11:14

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.0	51.5	77.3
61	49.4	33.6	50.4





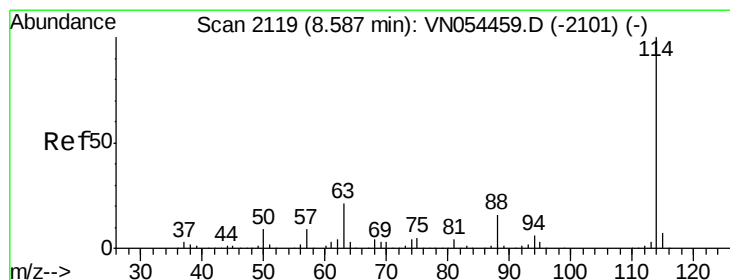
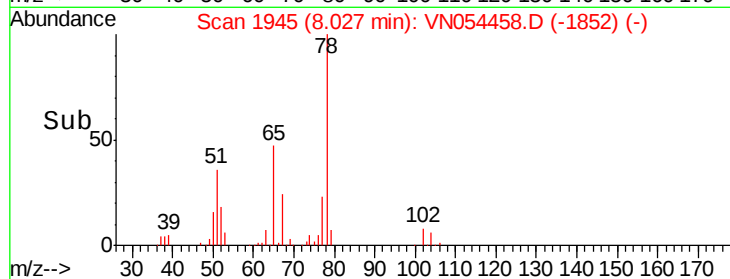
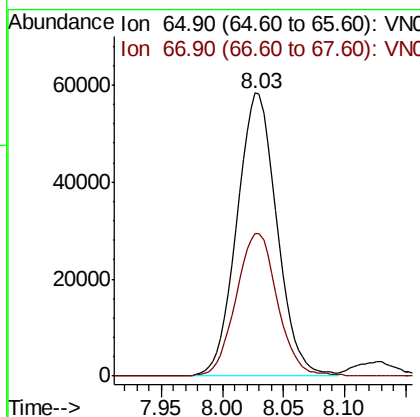
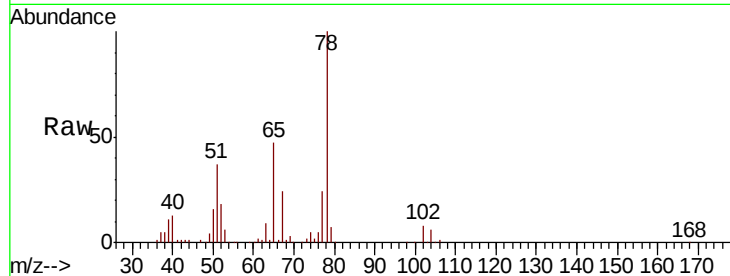
#33
 1,2-Dichloroethane-d4
 Concen: 24.779 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN054458.D
 Acq: 20 Mar 2019 11:14

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	104.6

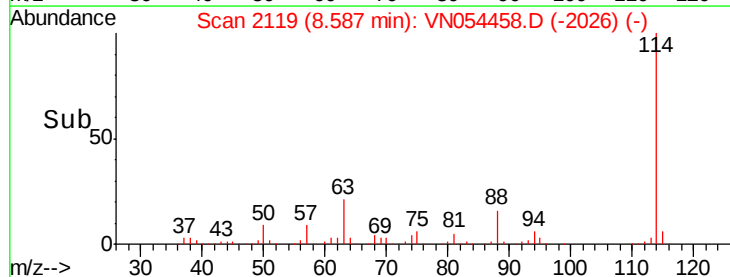
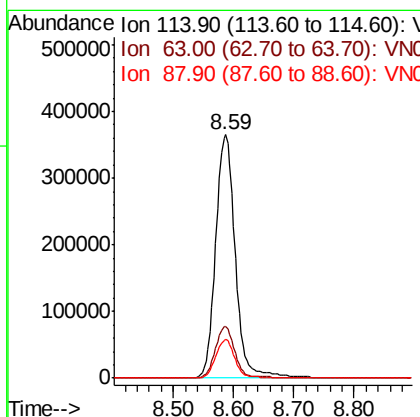
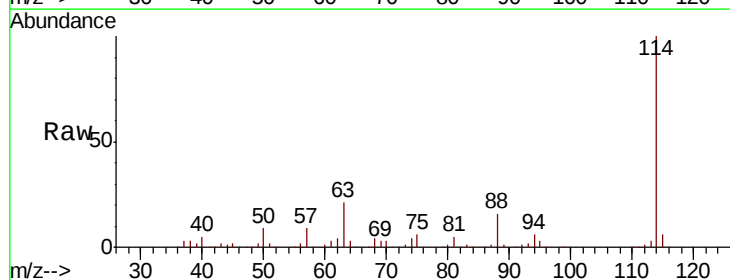
Manual Integrations
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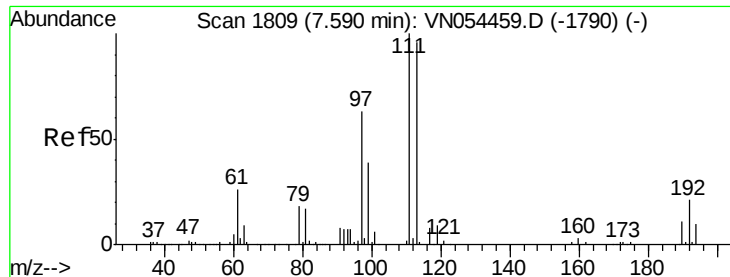
MMDadoda
 3/22/2019 3:16:11 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054458.D
 Acq: 20 Mar 2019 11:14

Tgt Ion	Ratio	Lower	Upper
114	100		
63	21.5	0.0	35.2
88	16.1	0.0	30.2





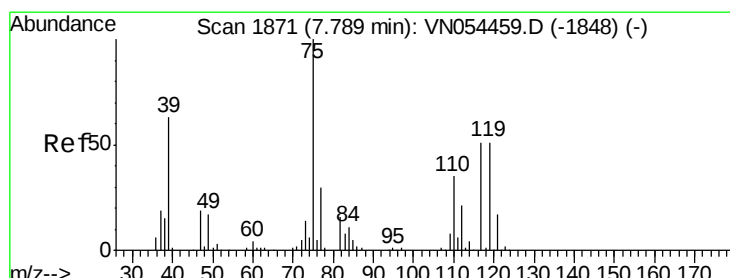
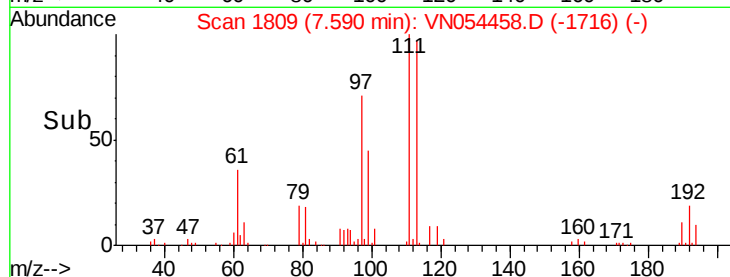
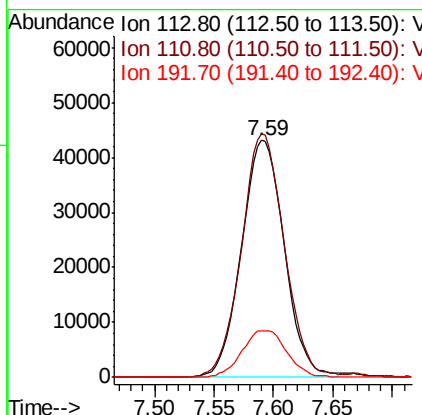
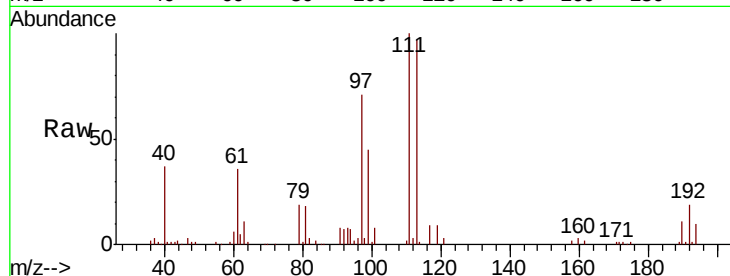
#35
Dibromofluoromethane
Concen: 20.422 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. -0.00 min
Lab File: VN054458.D
Acq: 20 Mar 2019 11:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	103.1	82.2	123.4	
192	20.7	19.2	28.8	

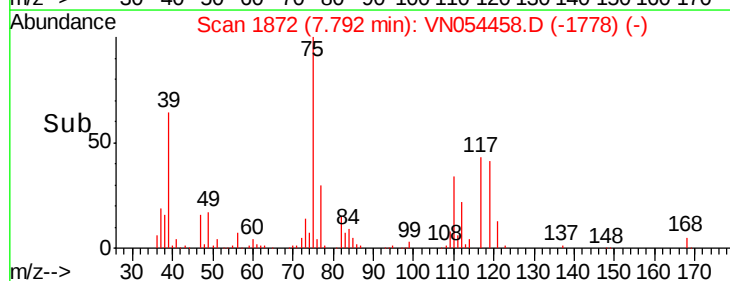
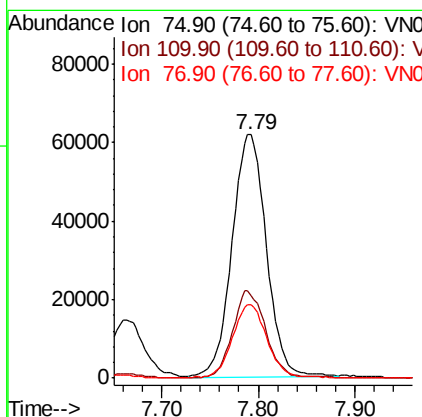
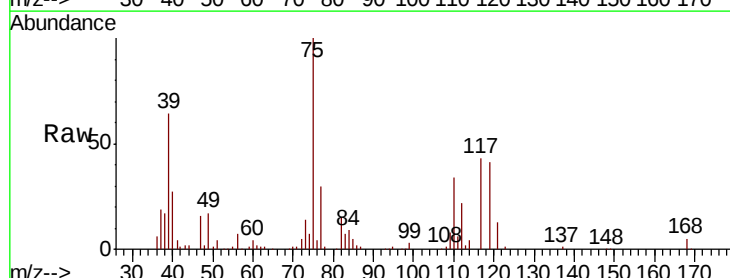
Manual Integrations
APPROVED

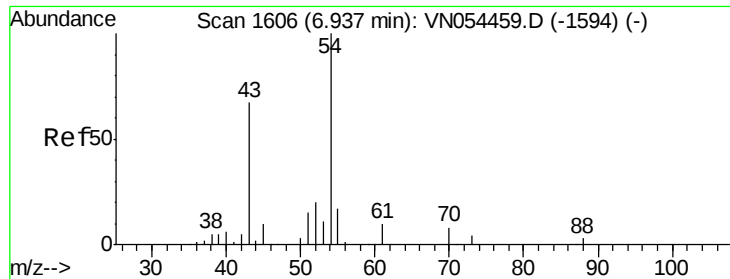
MMDadoda
3/22/2019 3:16:11 PM



#36
1,1-Dichloropropene
Concen: 20.174 ug/l
RT: 7.79 min Scan# 1872
Delta R.T. 0.00 min
Lab File: VN054458.D
Acq: 20 Mar 2019 11:14

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	35.1	19.1	57.5	
77	30.6	25.0	37.4	





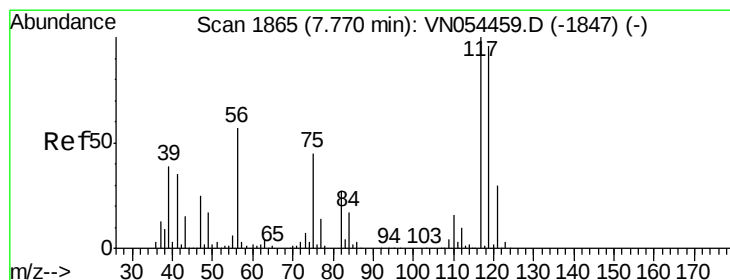
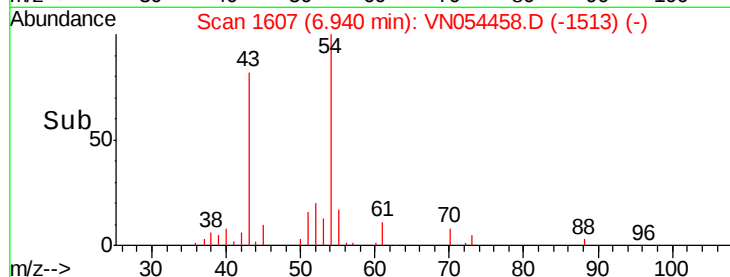
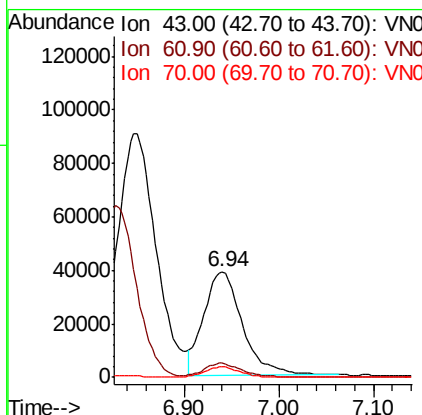
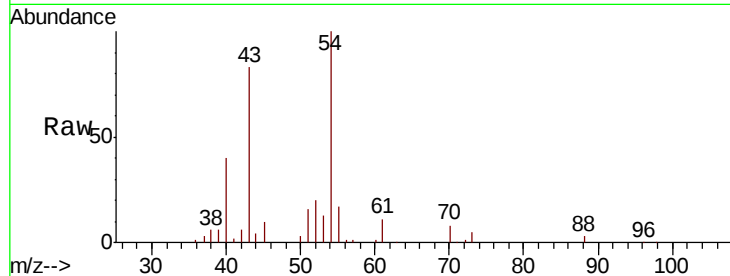
#37
Ethyl Acetate
Concen: 25.722 ug/l
RT: 6.94 min Scan# 1607
Delta R.T. 0.00 min
Lab File: VN054458.D
Acq: 20 Mar 2019 11:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	43	61	70	Resp	110970
Ion Ratio	100	13.7	9.2	Lower	Upper
		11.8	8.4		

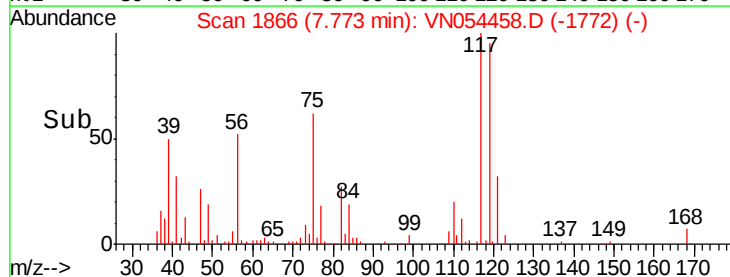
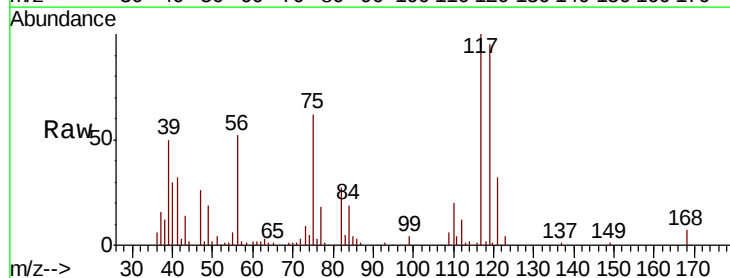
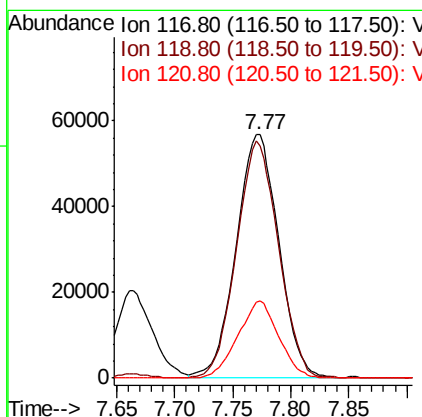
Manual Integrations
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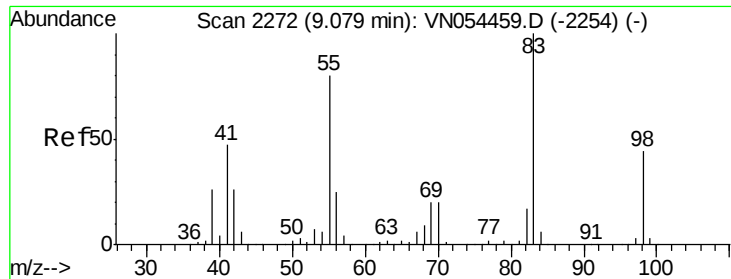
MMDadoda
3/22/2019 3:16:11 PM



#38
Carbon Tetrachloride
Concen: 18.444 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN054458.D
Acq: 20 Mar 2019 11:14

Tgt Ion	117	119	121	Resp	145226
Ion Ratio	100	95.0	31.9	Lower	Upper
		76.3	24.6		





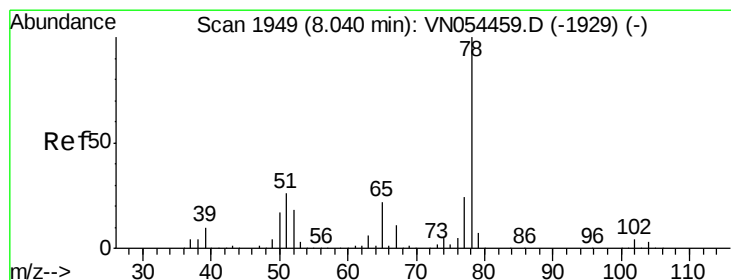
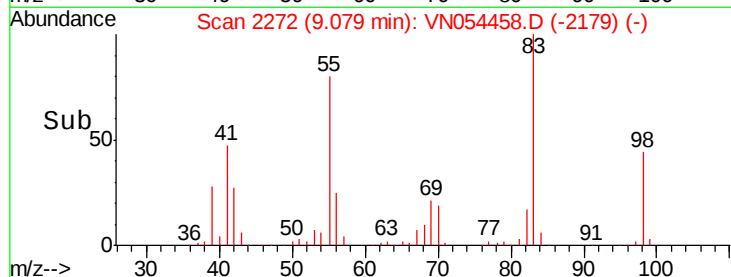
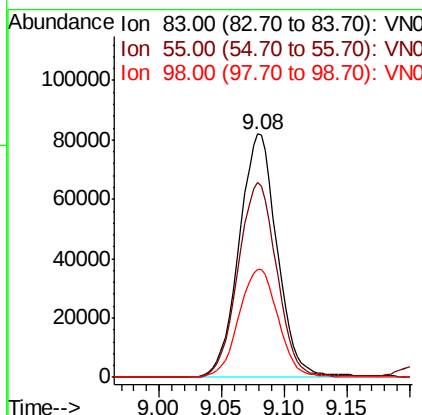
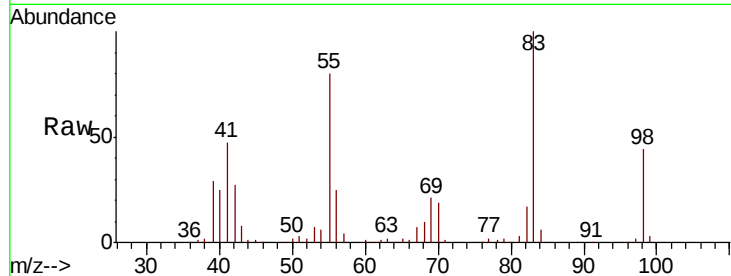
#39
Methvlcvclohexane
Concen: 18.707 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN054458.D
Acq: 20 Mar 2019 11:14

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	83.00	Resp	172815
Ion Ratio	100	Lower	Upper
83	100		
55	79.7	56.6	84.8
98	44.3	38.4	57.6

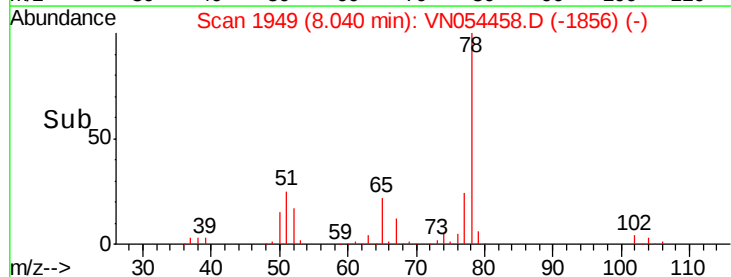
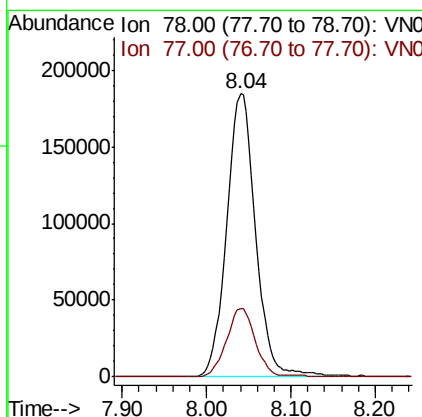
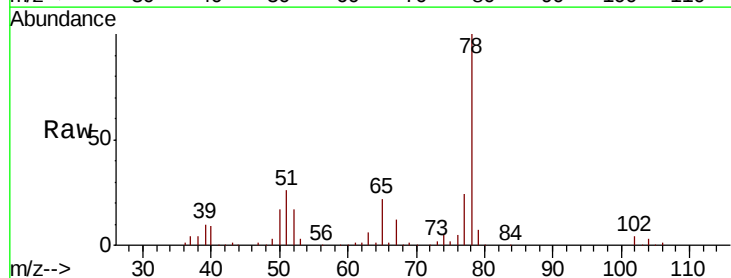
Manual Integrations
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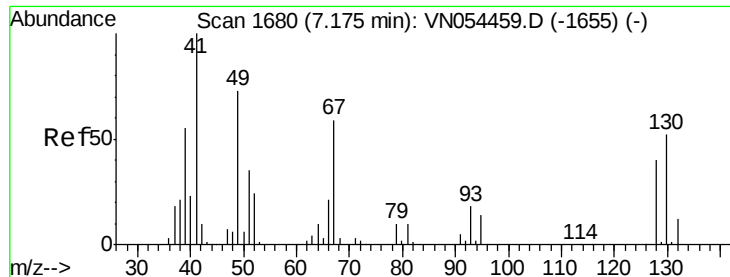
MMDadoda
3/22/2019 3:16:11 PM



#40
Benzene
Concen: 20.502 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN054458.D
Acq: 20 Mar 2019 11:14

Tgt Ion	78	Resp	440508
Ion Ratio	100	Lower	Upper
78	100		
77	24.3	19.1	28.7





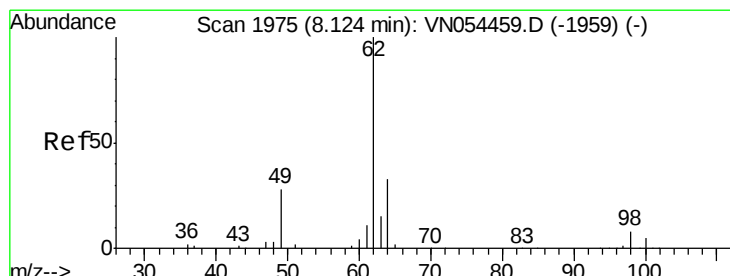
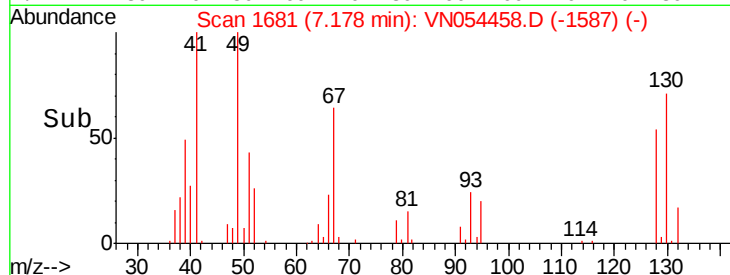
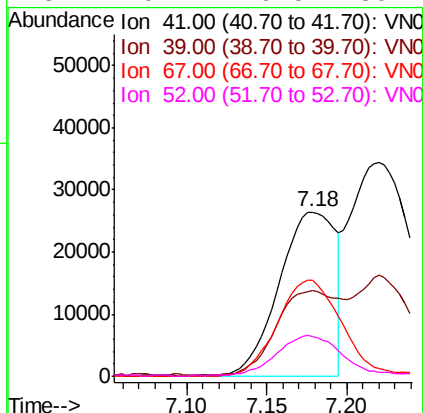
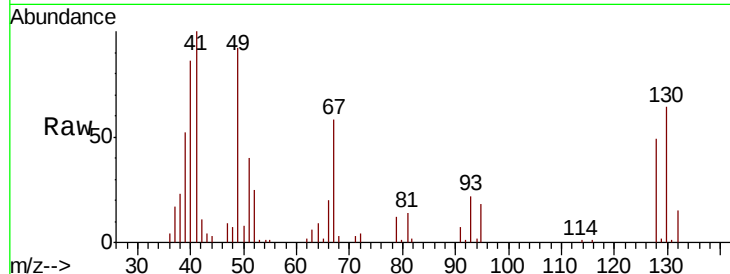
#41
Methacrylonitrile
Concen: 26.376 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VN054458.D
Acq: 20 Mar 2019 11:14

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	59.9	46.8	70.2	
67	66.9	67.0	100.4	
52	29.7	26.5	39.7	

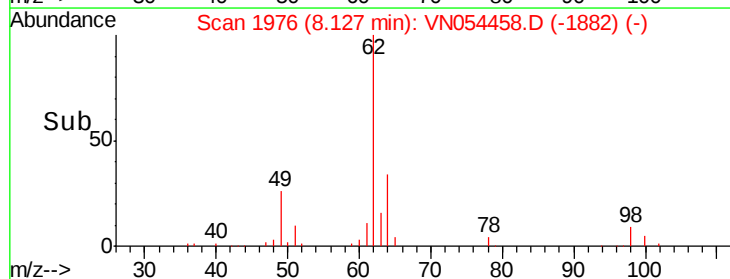
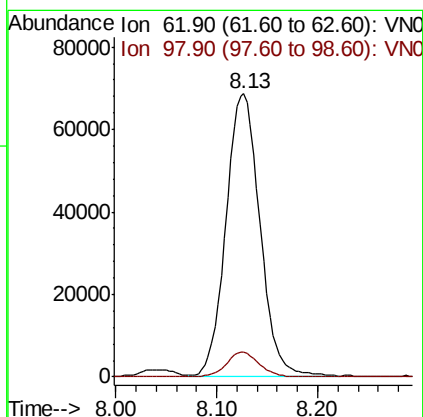
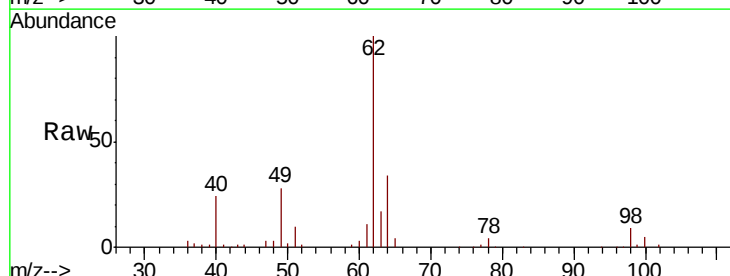
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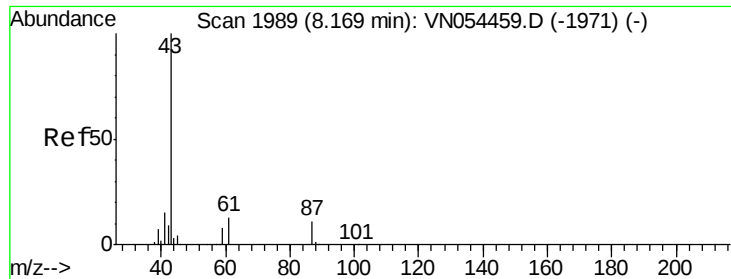
MMDadoda
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#42
1,2-Dichloroethane
Concen: 22.111 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN054458.D
Acq: 20 Mar 2019 11:14

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	8.4	0.0	18.4	





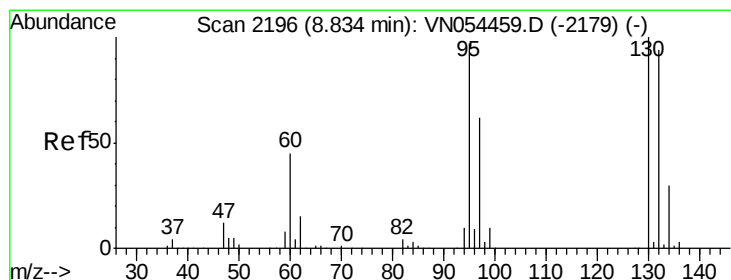
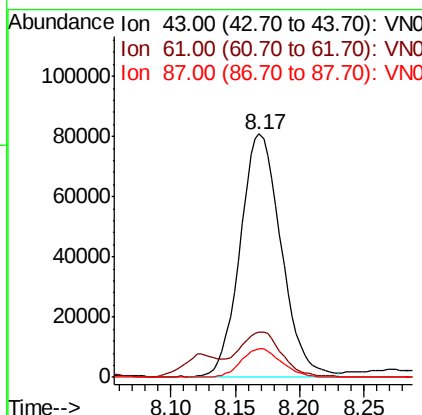
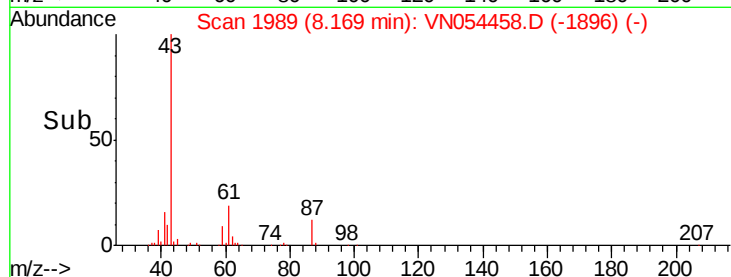
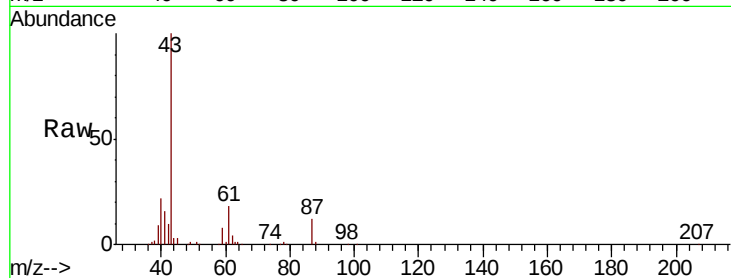
#43
Isopropyl Acetate
Concen: 23.500 ug/l
RT: 8.17 min Scan# 1989
Delta R.T. -0.00 min
Lab File: VN054458.D
Acq: 20 Mar 2019 11:14

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
61	18.9	15.8	23.8
87	11.6	12.0	18.0

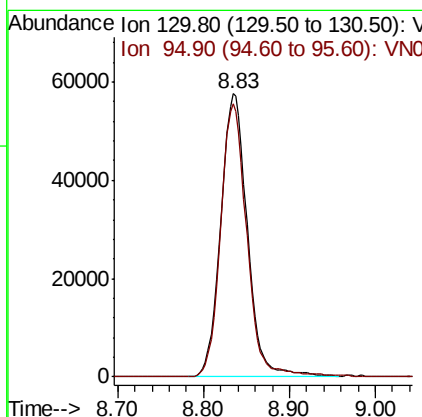
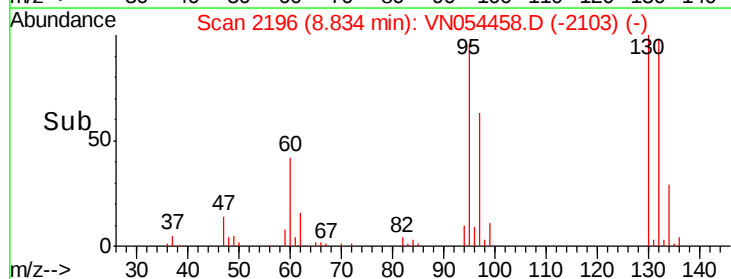
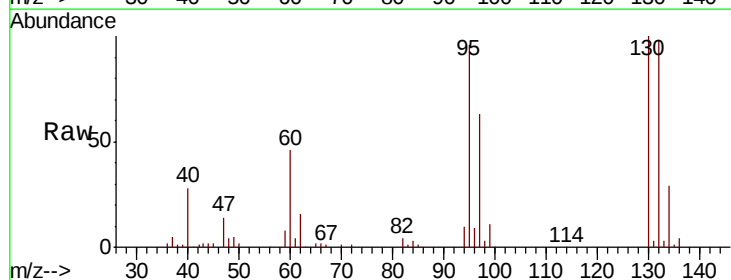
Manual Integrations
APPROVED

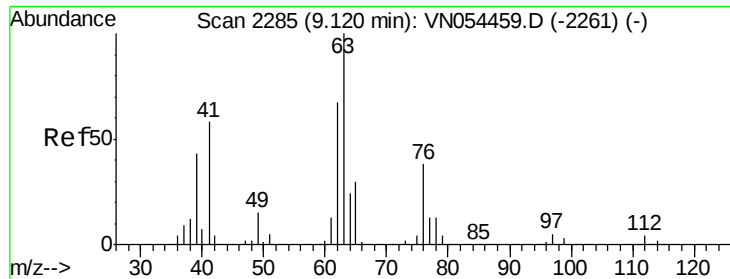
MMDadoda
3/22/2019 3:16:11 PM



#44
Trichloroethene
Concen: 18.637 ug/l
RT: 8.83 min Scan# 2196
Delta R.T. -0.00 min
Lab File: VN054458.D
Acq: 20 Mar 2019 11:14

Tgt Ion	Ratio	Lower	Upper
130	100		
95	96.4	0.0	185.2





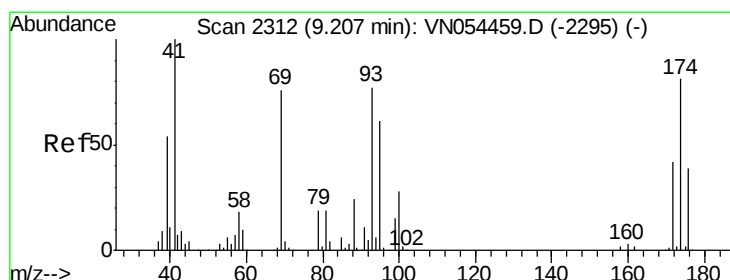
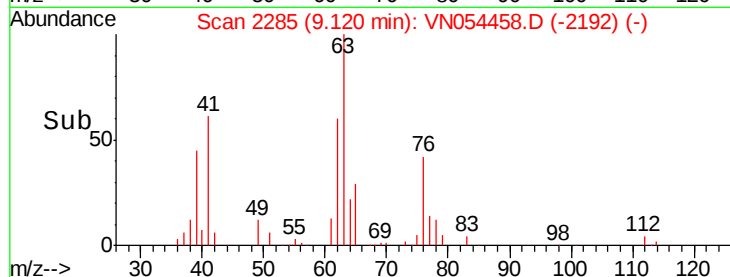
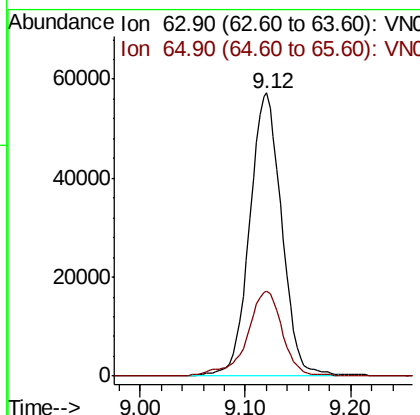
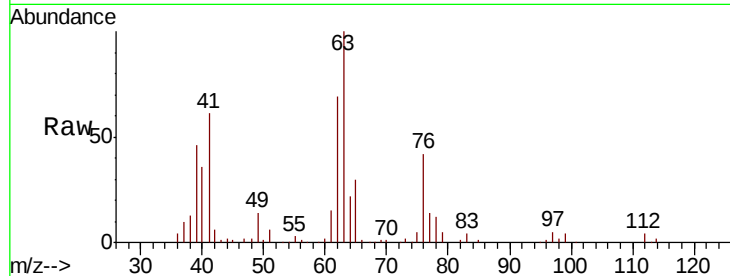
#45
 1,2-Dichloropropane
 Concen: 22.739 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. -0.00 min
 Lab File: VN054458.D
 Acq: 20 Mar 2019 11:14

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion: 63 Resp: 121313
 Ion Ratio Lower Upper
 63 100
 65 30.0 25.0 37.6

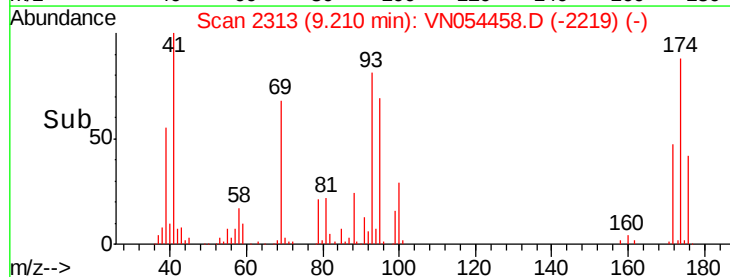
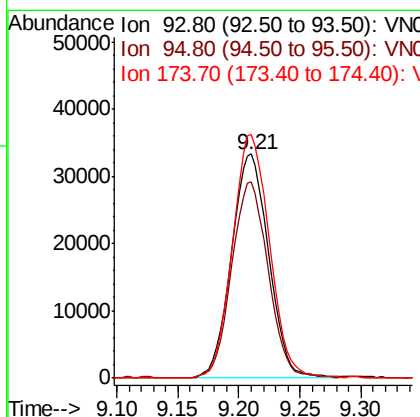
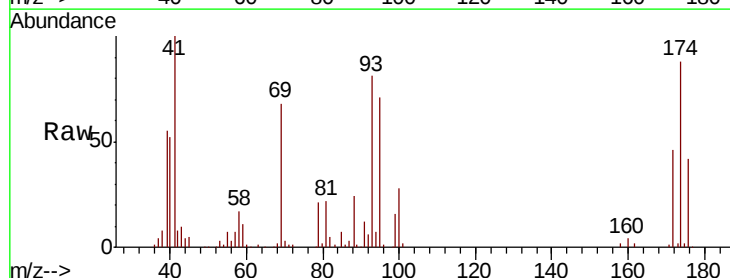
Manual Integrations
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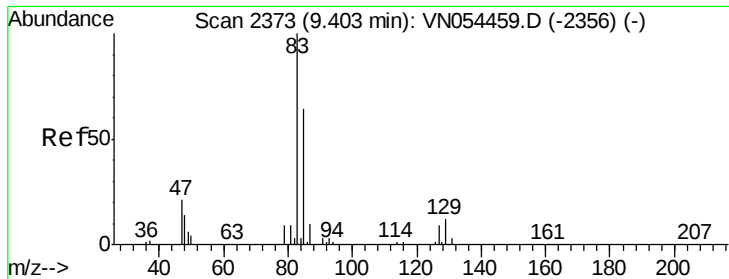
MMDadoda
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#46
 Dibromomethane
 Concen: 19.555 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN054458.D
 Acq: 20 Mar 2019 11:14

Tgt Ion: 93 Resp: 70492
 Ion Ratio Lower Upper
 93 100
 95 86.1 66.7 100.1
 174 108.2 98.5 147.7





#47

Bromodichloromethane

Concen: 20.091 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN054458.D

Acq: 20 Mar 2019 11:14

Instrument :

MSVOA_N

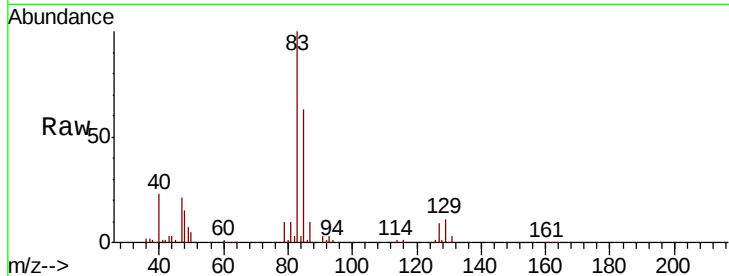
ClientSampleId :

VSTDIC020

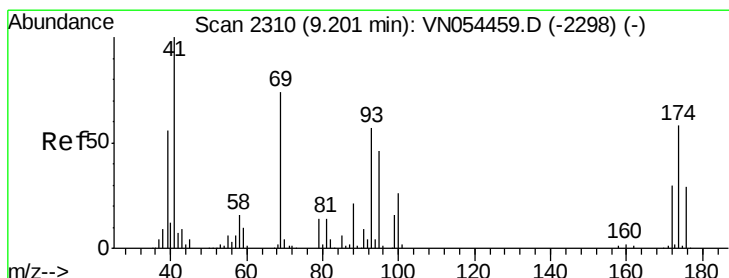
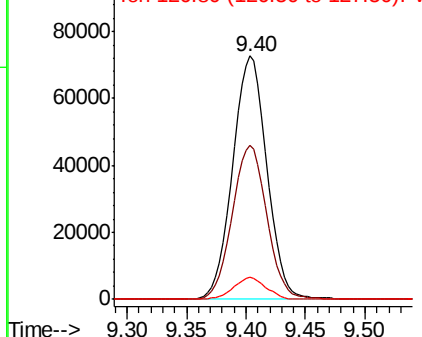
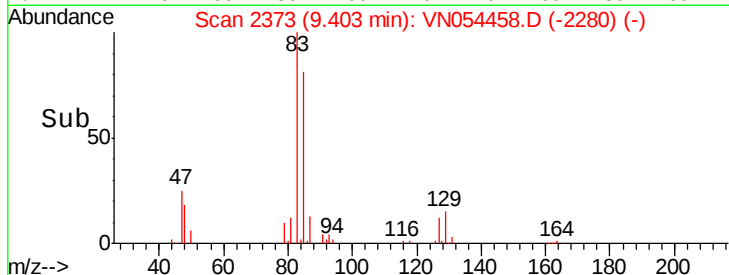
Tot Ion:	83	Resp:	145191
Ion Ratio	Lower	Upper	
83	100		
85	63.2	52.8	79.2
127	9.1	7.4	11.2

Manual Integrations
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Abundance Ion 82.90 (82.60 to 83.60): VN054458.D (-2280) (-)



#48

Methyl methacrylate

Concen: 25.202 ug/l

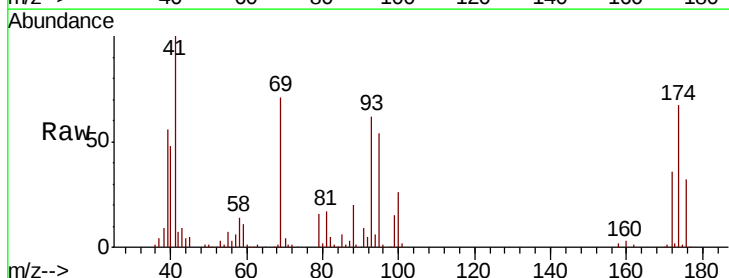
RT: 9.20 min Scan# 2311

Delta R.T. 0.00 min

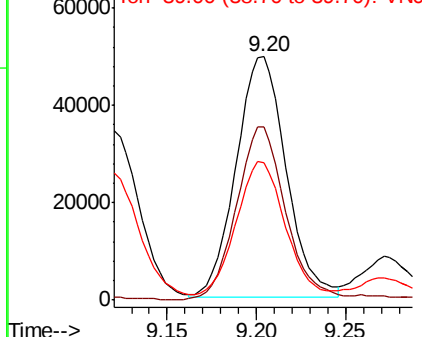
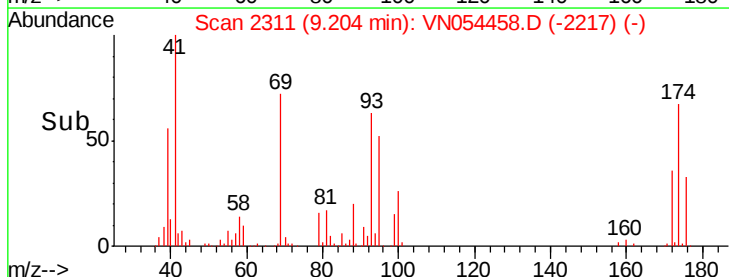
Lab File: VN054458.D

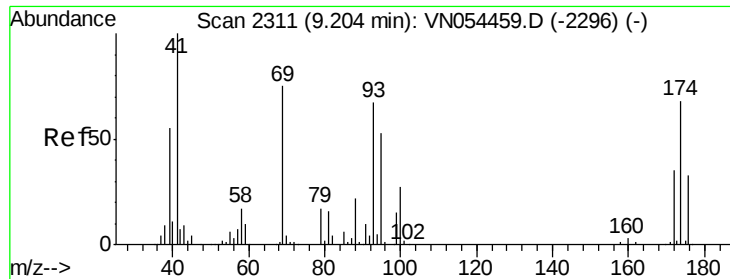
Acq: 20 Mar 2019 11:14

Tgt Ion:	41	Resp:	96849
Ion Ratio	Lower	Upper	
41	100		
69	70.7	72.6	108.8#
39	56.0	47.5	71.3



Abundance Ion 41.00 (40.70 to 41.70): VN054458.D (-2217) (-)





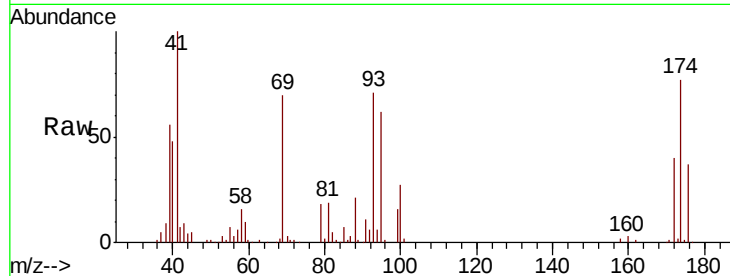
#49
1,4-Dioxane
Concen: 419.071 ug/l
RT: 9.21 min Scan# 2312
Delta R.T. 0.00 min
Lab File: VN054458.D
Acq: 20 Mar 2019 11:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
88	100		
43	36.3	24.1	36.1#
58	70.8	50.8	76.2

Manual Integrations
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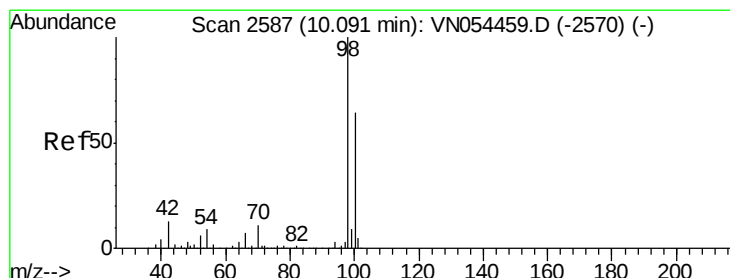
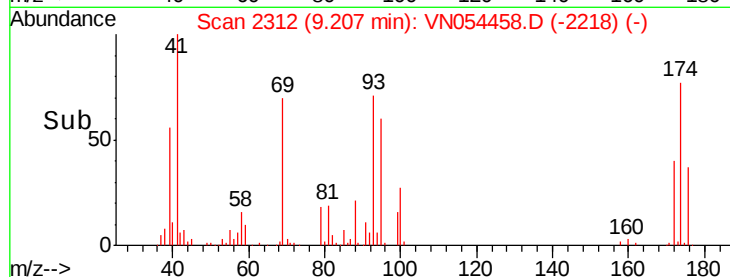
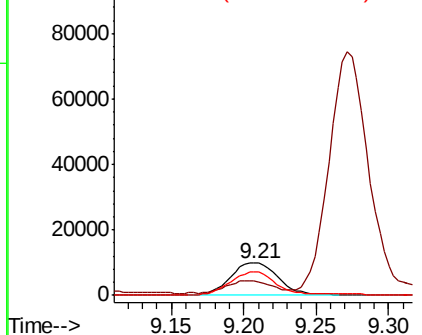


Abundance

Ion 88.00 (87.70 to 88.70): VN0

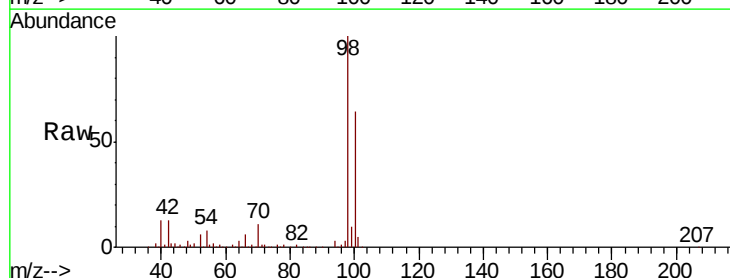
Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50
Toluene-d8
Concen: 20.749 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. -0.00 min
Lab File: VN054458.D
Acq: 20 Mar 2019 11:14

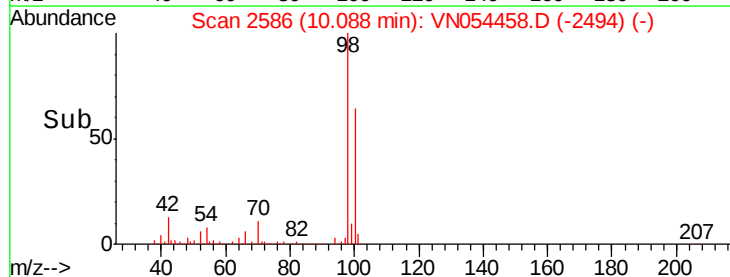
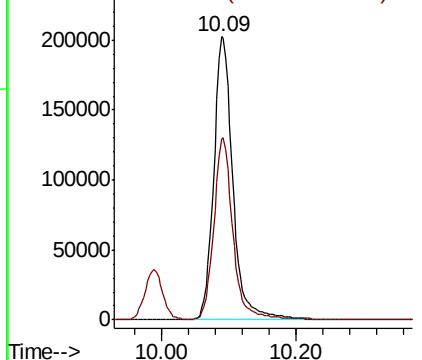
Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.2	51.2	76.8

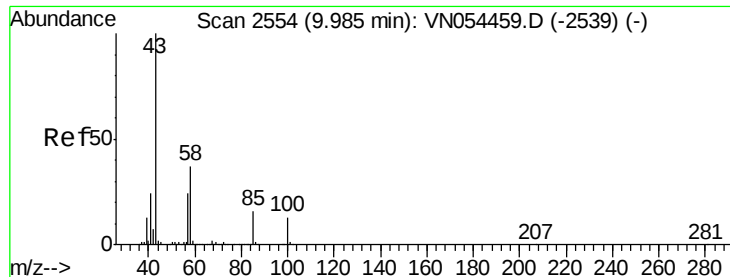


Abundance

Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





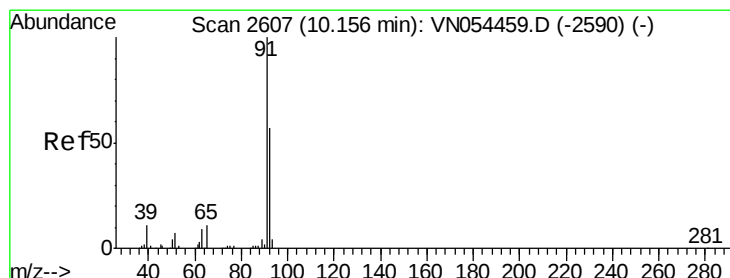
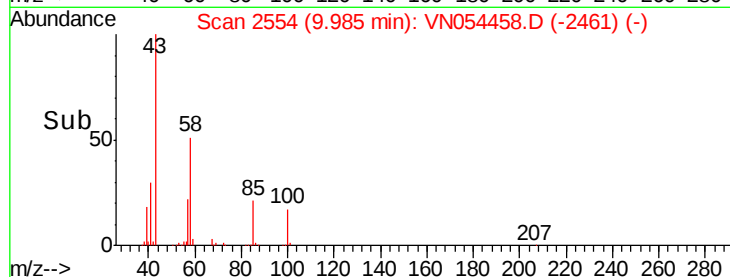
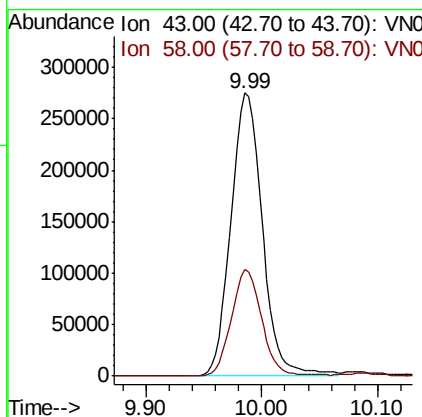
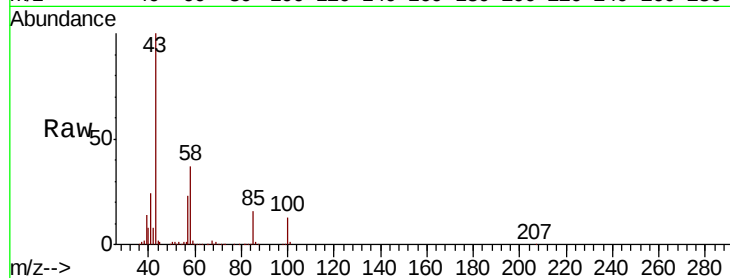
#51
4-Methyl-2-Pentanone
Concen: 128.425 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. -0.00 min
Lab File: VN054458.D
Acq: 20 Mar 2019 11:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
58	36.1	31.8	47.6

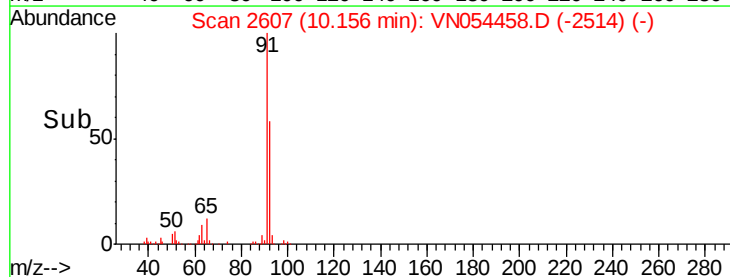
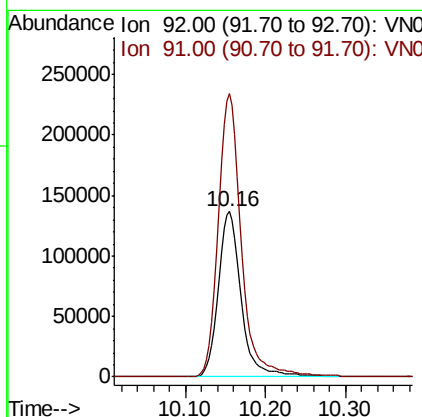
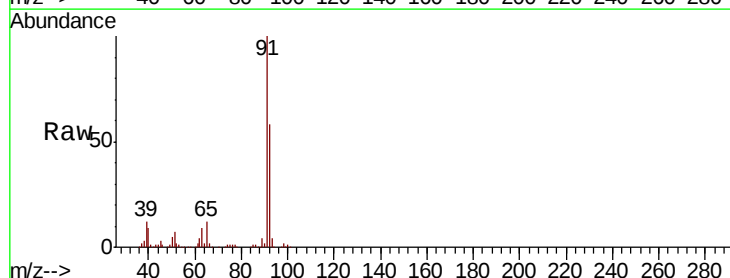
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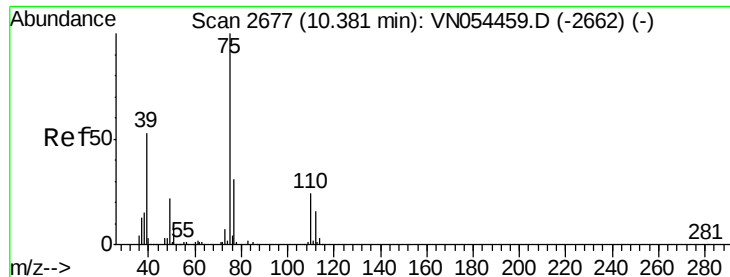
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#52
Toluene
Concen: 19.927 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. -0.00 min
Lab File: VN054458.D
Acq: 20 Mar 2019 11:14

Tgt Ion	Ratio	Lower	Upper
92	100		
91	173.3	140.7	211.1





#53

t-1,3-Dichloropropene

Concen: 17.720 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. -0.00 min

Lab File: VN054458.D

Acq: 20 Mar 2019 11:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 75 Resp: 130335

Ion Ratio Lower Upper

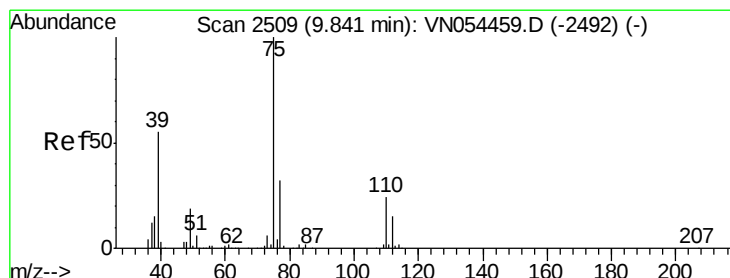
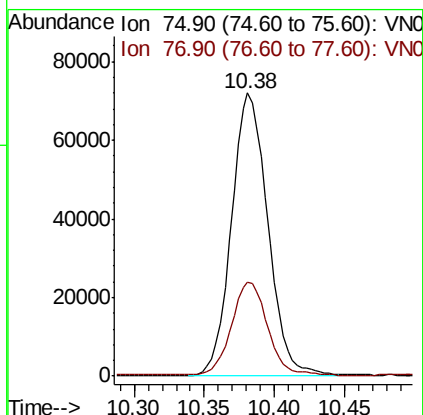
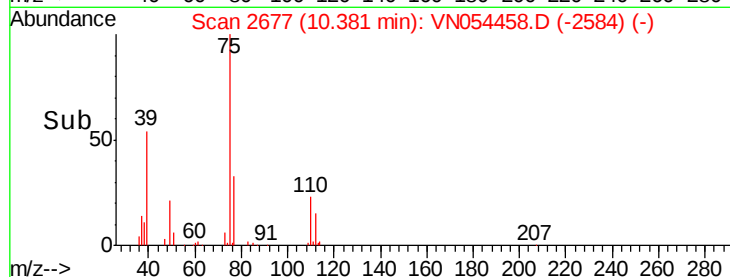
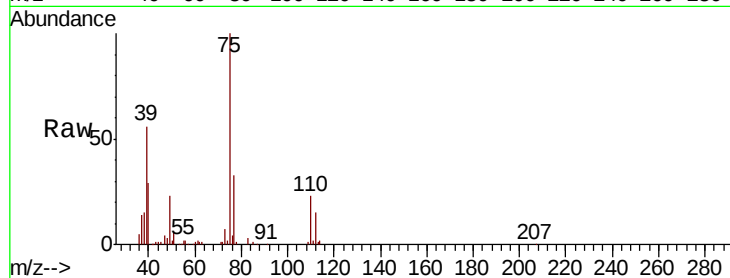
75 100

77 33.1 25.8 38.8

Manual Integrations
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#54

cis-1,3-Dichloropropene

Concen: 20.102 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VN054458.D

Acq: 20 Mar 2019 11:14

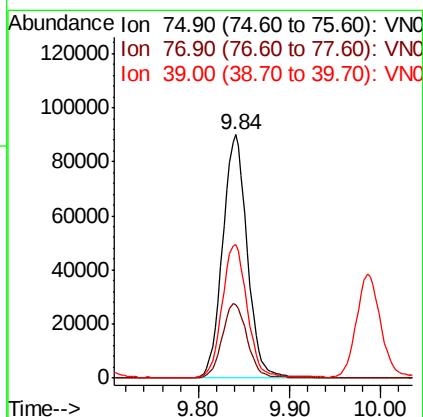
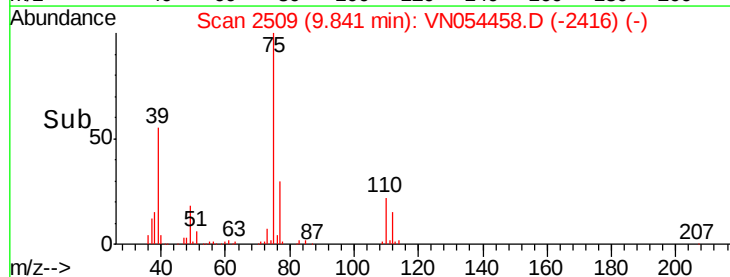
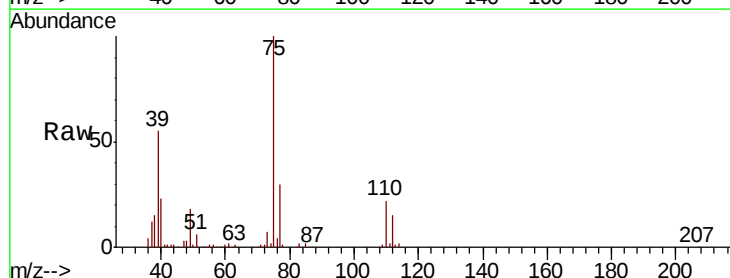
Tgt Ion: 75 Resp: 169281

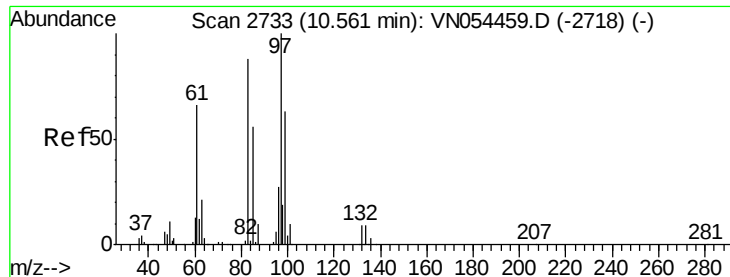
Ion Ratio Lower Upper

75 100

77 30.4 25.4 38.0

39 54.8 37.2 55.8





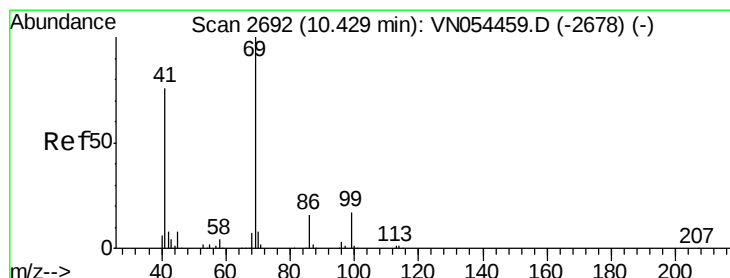
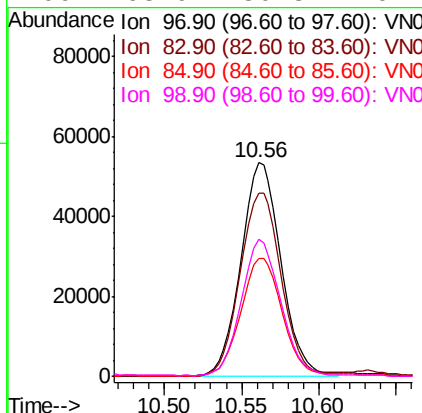
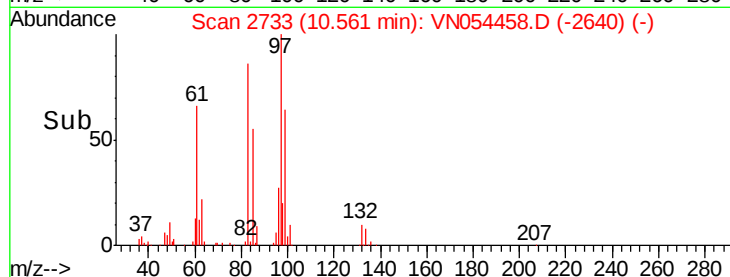
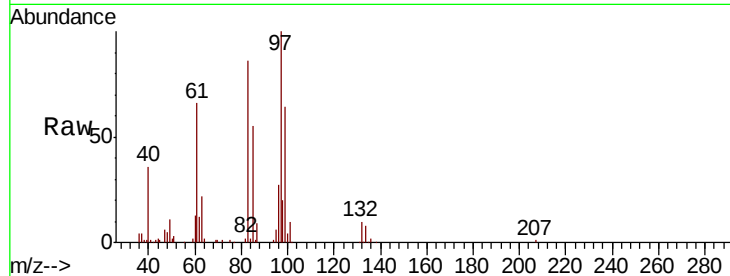
#55
 1,1,2-Trichloroethane
 Concen: 19.428 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. -0.00 min
 Lab File: VN054458.D
 Acq: 20 Mar 2019 11:14

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion:	97	Resp:	96645
Ion	Ratio	Lower	Upper
97	100		
83	85.7	66.6	100.0
85	55.3	44.4	66.6
99	63.9	50.8	76.2

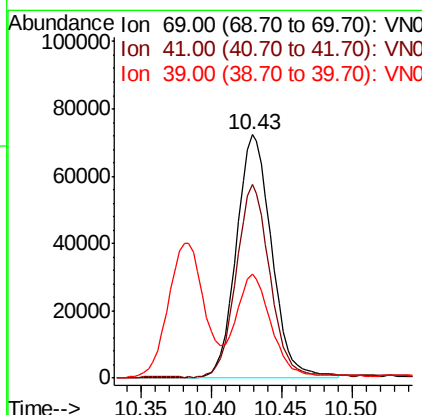
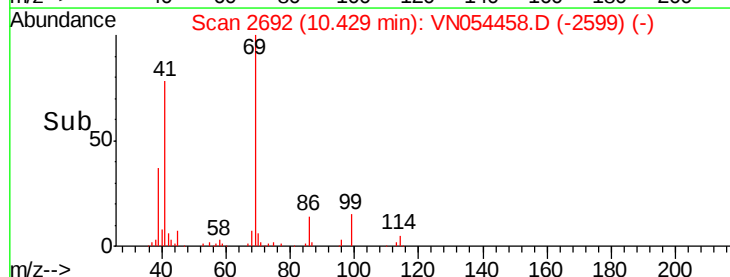
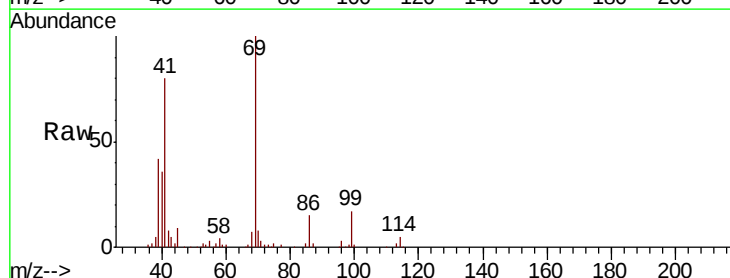
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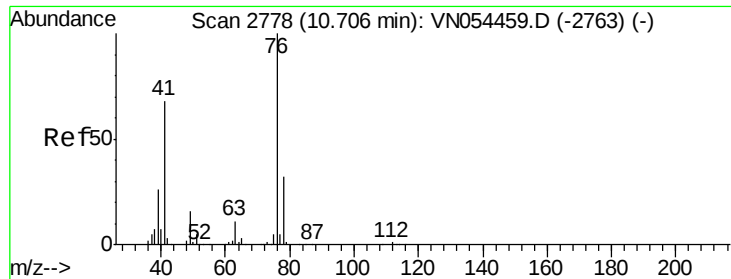
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#56
 Ethyl methacrylate
 Concen: 21.438 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. -0.00 min
 Lab File: VN054458.D
 Acq: 20 Mar 2019 11:14

Tgt Ion:	69	Resp:	127160
Ion	Ratio	Lower	Upper
69	100		
41	75.2	49.4	74.2#
39	41.0	28.3	42.5





#57

1,3-Dichloropropane

Concen: 20.972 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN054458.D

Acq: 20 Mar 2019 11:14

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion: 76 Resp: 170582

Ion Ratio Lower Upper

76 100

78 32.9

25.7

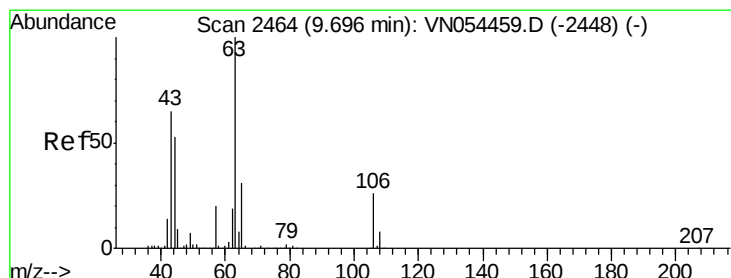
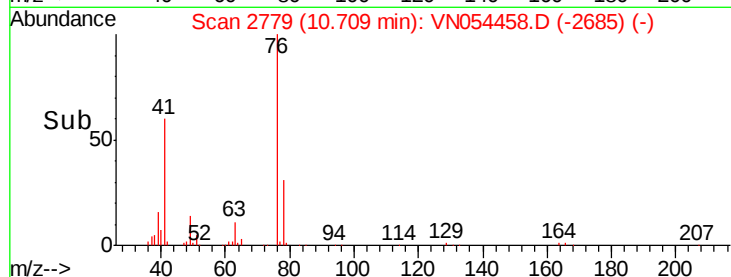
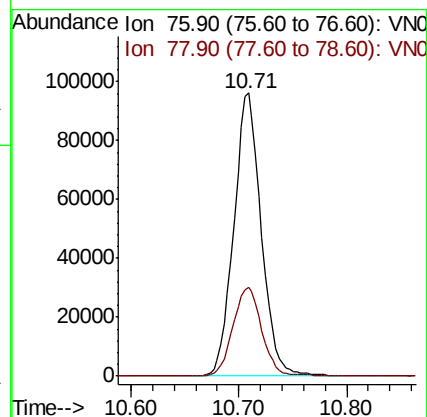
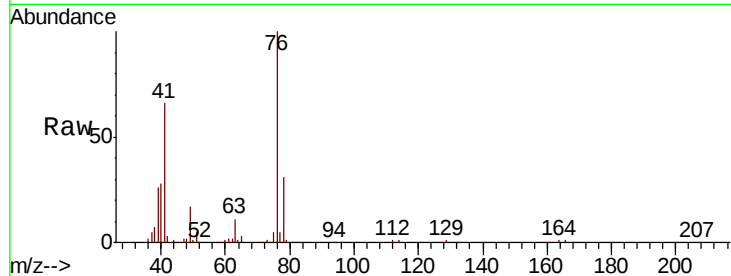
38.5

Manual Integrations

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#58

2-Chloroethyl Vinyl ether

Concen: 111.653 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. -0.00 min

Lab File: VN054458.D

Acq: 20 Mar 2019 11:14

Tgt Ion: 63 Resp: 250868

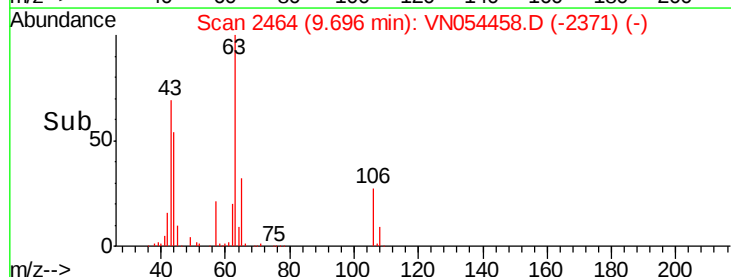
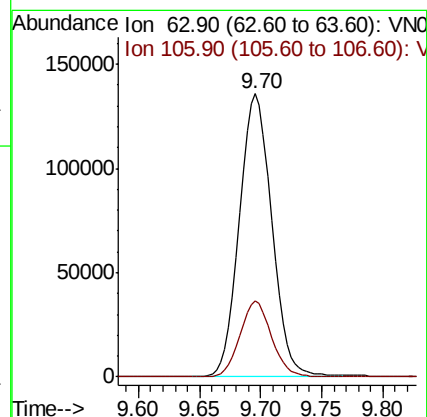
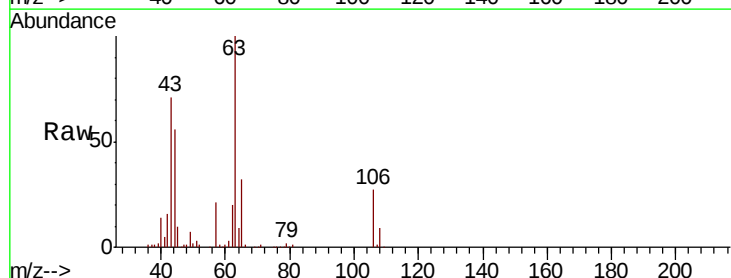
Ion Ratio Lower Upper

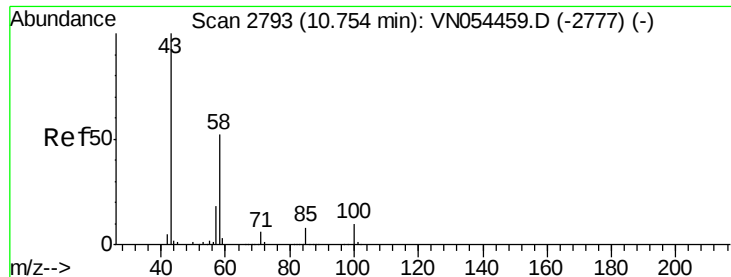
63 100

106 26.1

24.4

36.6





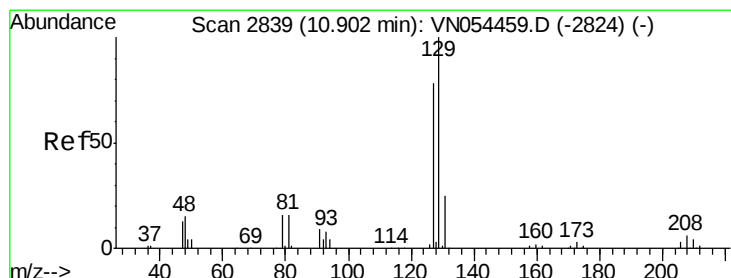
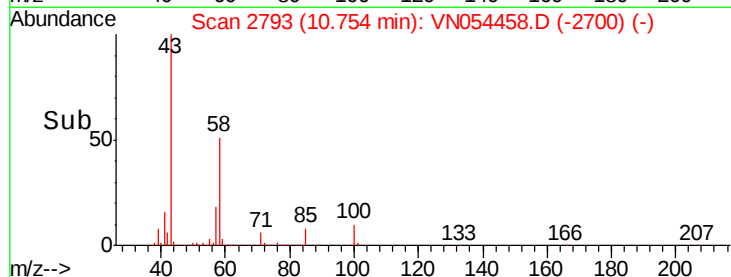
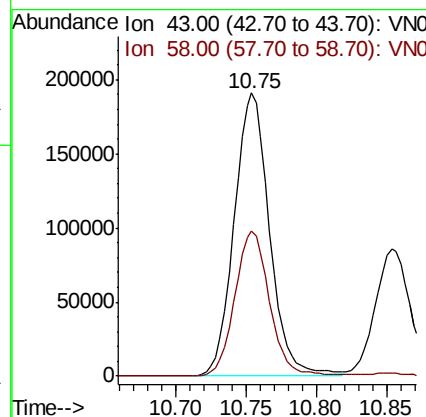
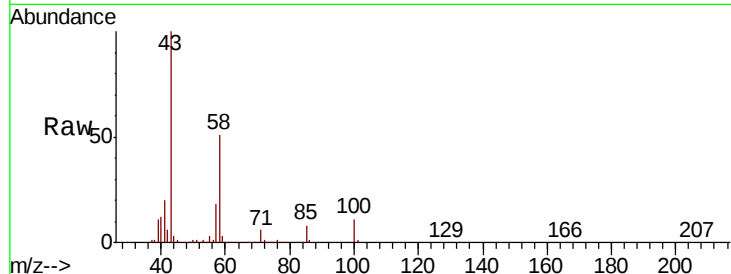
#59
2-Hexanone
Concen: 124.863 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. -0.00 min
Lab File: VN054458.D
Acq: 20 Mar 2019 11:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	43	Resp	332955
Ion Ratio	100	Lower	Upper
43	100		
58	50.8	28.0	83.9

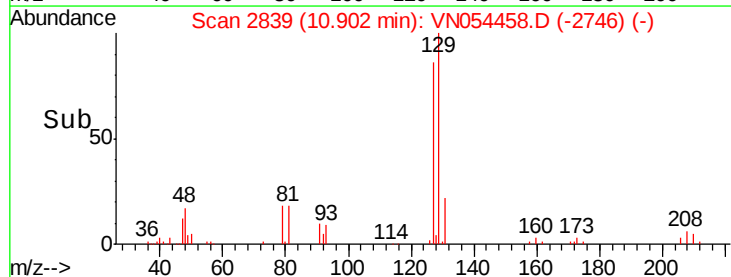
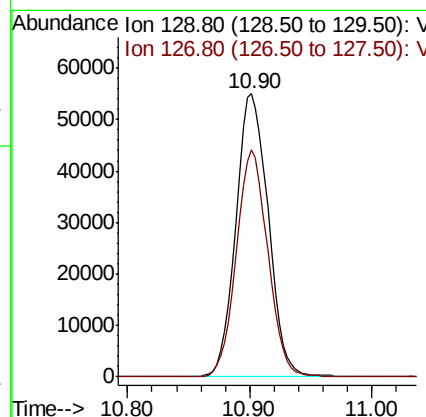
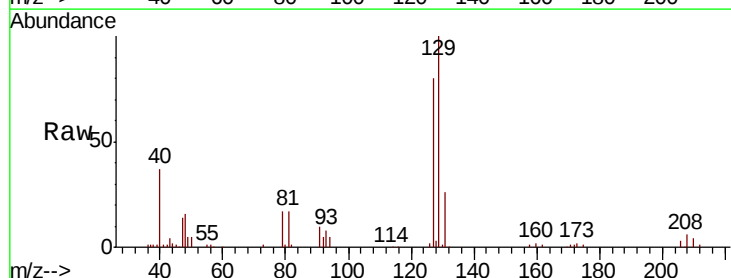
Manual Integrations
APPROVED

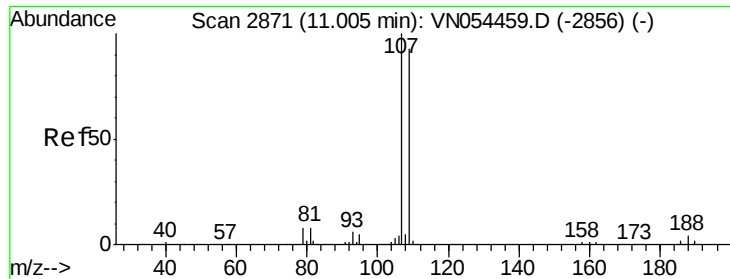
MMDadoda
3/22/2019 3:16:11 PM



#60
Dibromochloromethane
Concen: 18.081 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN054458.D
Acq: 20 Mar 2019 11:14

Tgt Ion	129	Resp	101235
Ion Ratio	100	Lower	Upper
129	100		
127	78.2	38.6	115.8





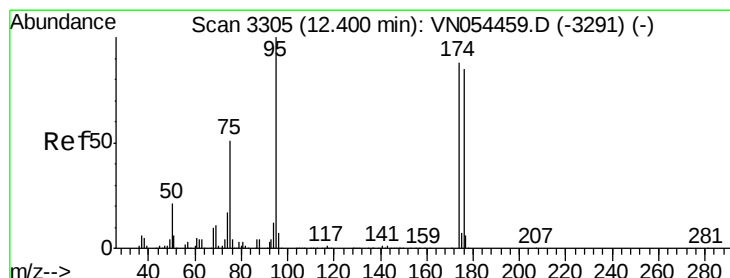
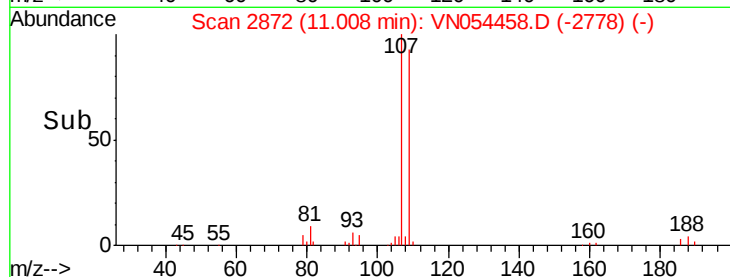
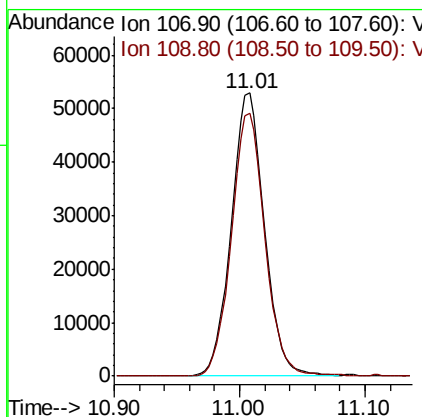
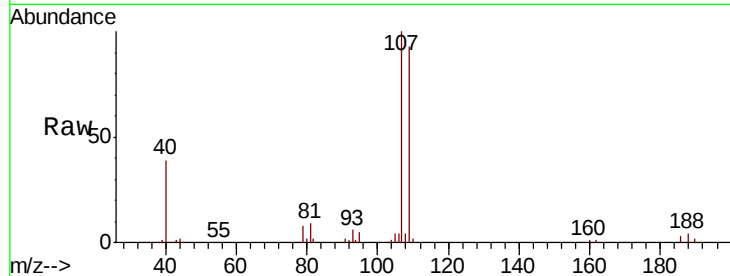
#61
 1,2-Dibromoethane
 Concen: 19.203 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN054458.D
 Acq: 20 Mar 2019 11:14

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion:107 Resp: 97076
 Ion Ratio Lower Upper
 107 100
 109 93.7 75.9 113.9

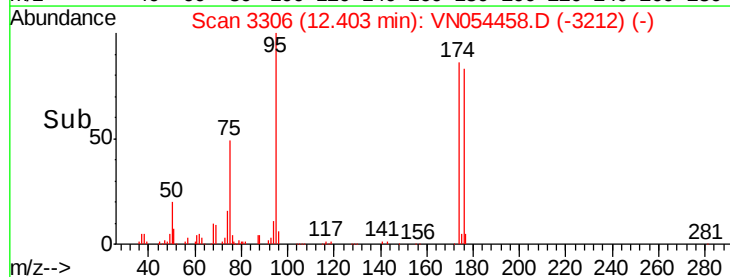
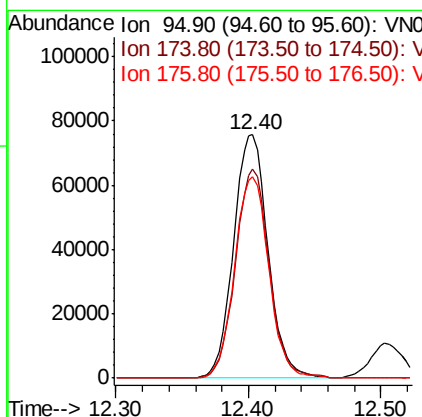
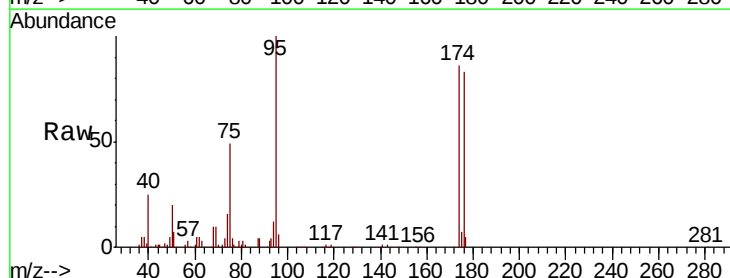
Manual Integrations
 APPROVED

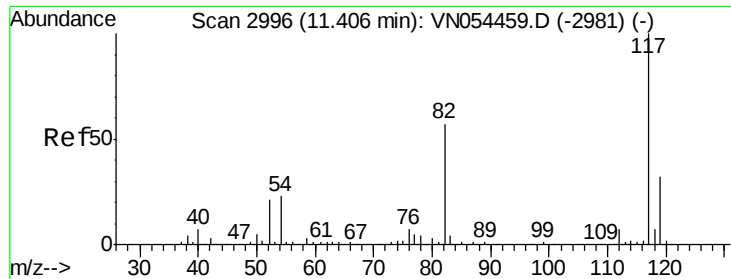
MMDadoda
 3/22/2019 3:16:11 PM



#62
 4-Bromofluorobenzene
 Concen: 20.088 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.00 min
 Lab File: VN054458.D
 Acq: 20 Mar 2019 11:14

Tgt Ion: 95 Resp: 136501
 Ion Ratio Lower Upper
 95 100
 174 84.2 0.0 191.0
 176 82.5 0.0 187.4





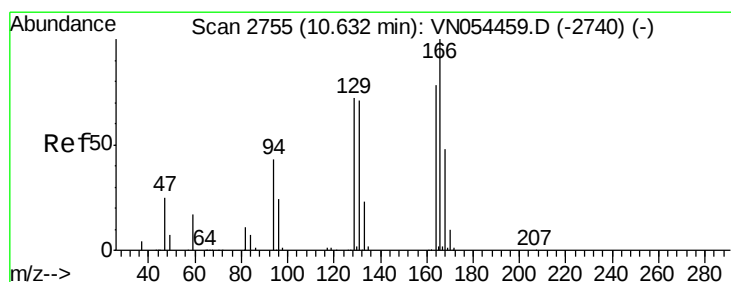
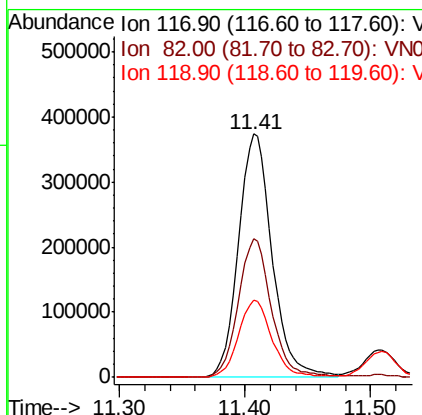
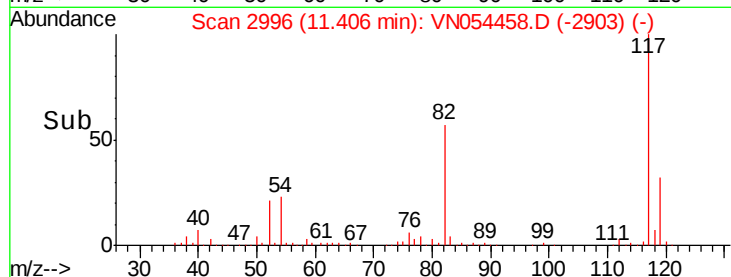
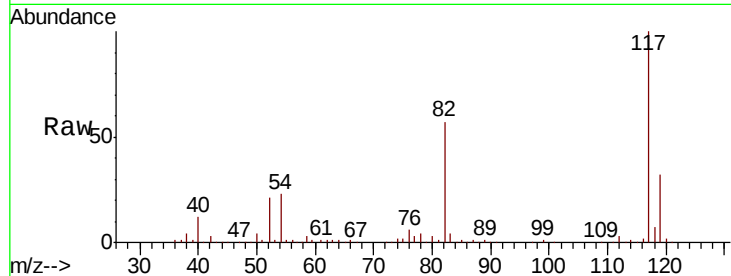
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054458.D
Acq: 20 Mar 2019 11:14

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
117	100		
82	56.7	40.0	60.0
119	31.7	25.8	38.6

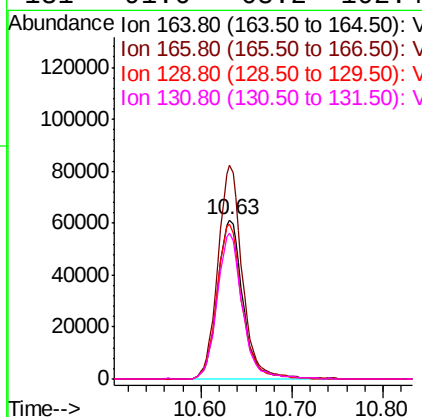
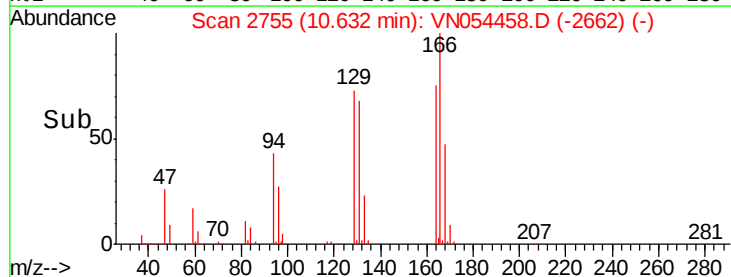
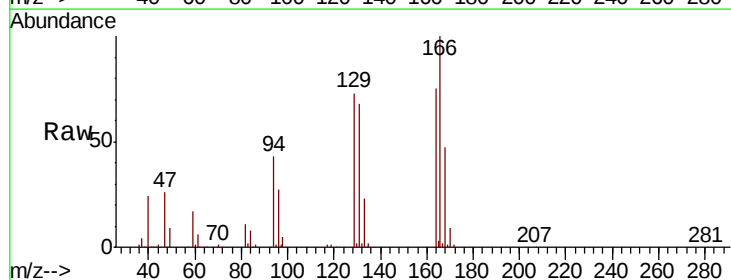
Manual Integrations
APPROVED

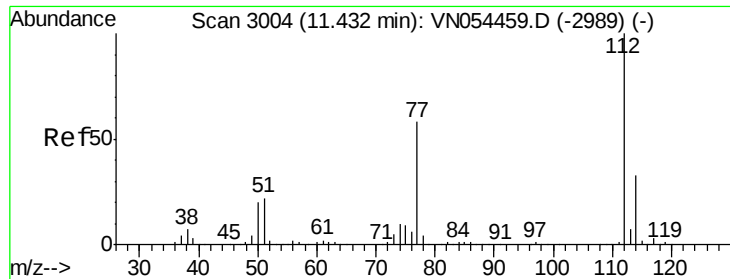
MMDadoda
3/22/2019 3:16:11 PM



#64
Tetrachloroethene
Concen: 17.621 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN054458.D
Acq: 20 Mar 2019 11:14

Tgt Ion	Ratio	Lower	Upper
164	100		
166	134.0	103.9	155.9
129	97.5	71.1	106.7
131	91.6	68.2	102.4





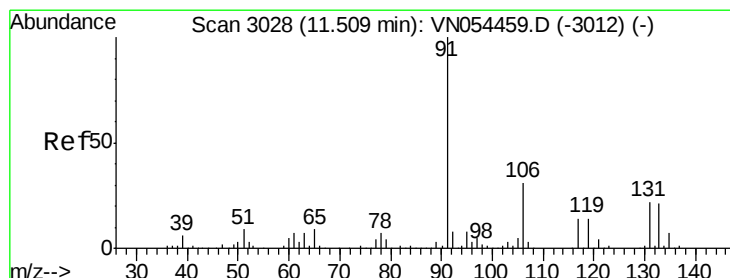
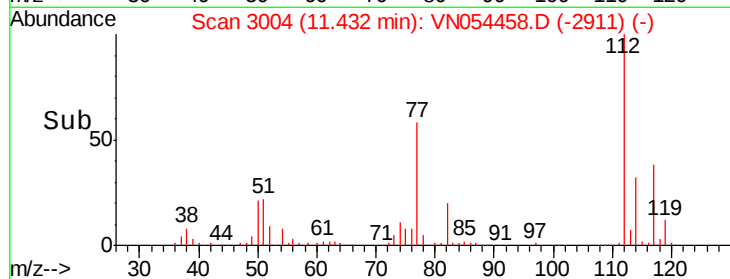
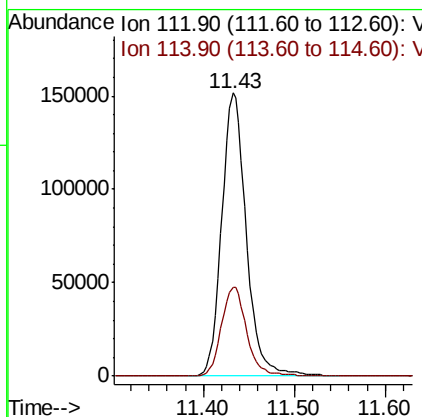
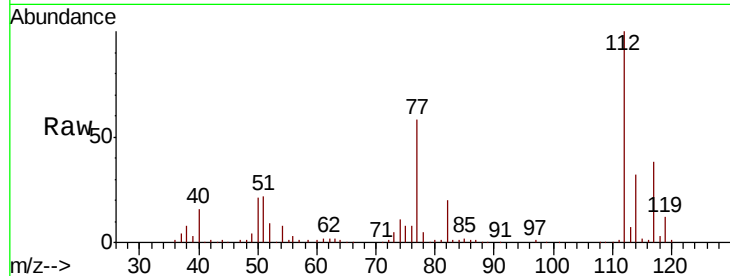
#65
Chlorobenzene
Concen: 18.546 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN054458.D
Acq: 20 Mar 2019 11:14

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion:112 Resp: 284439
Ion Ratio Lower Upper
112 100
114 31.5 25.9 38.9

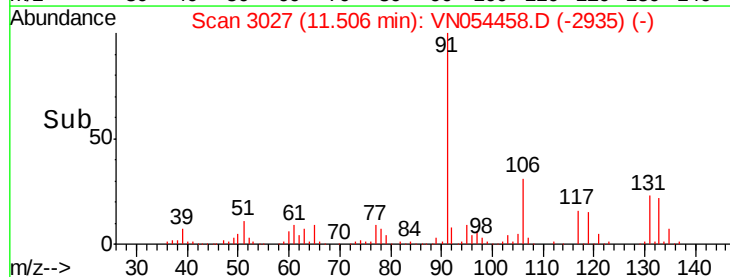
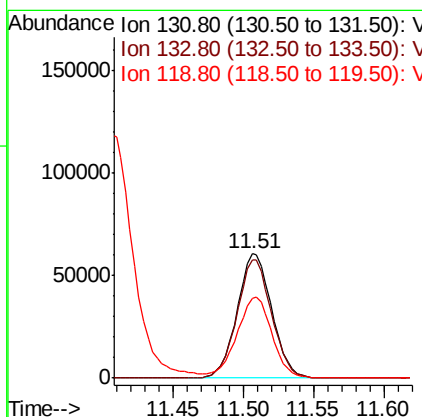
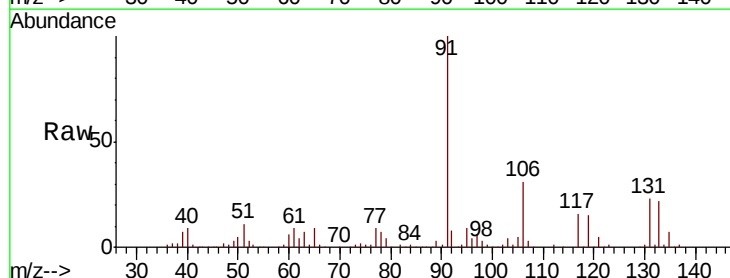
Manual Integrations
APPROVED

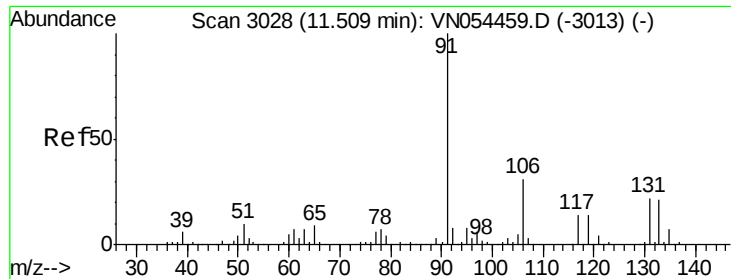
MMDadoda
3/22/2019 3:16:11 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 18.697 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. -0.00 min
Lab File: VN054458.D
Acq: 20 Mar 2019 11:14

Tgt Ion:131 Resp: 104174
Ion Ratio Lower Upper
131 100
133 95.0 47.6 142.9
119 66.8 32.4 97.0





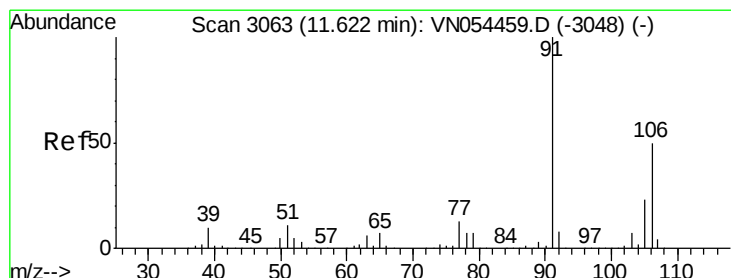
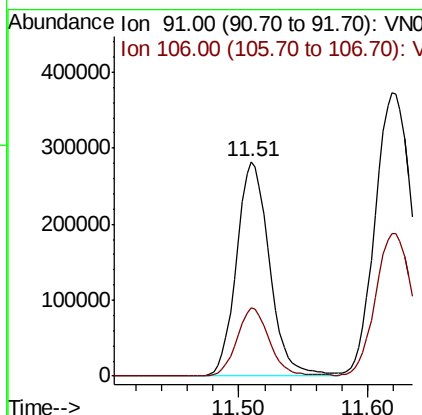
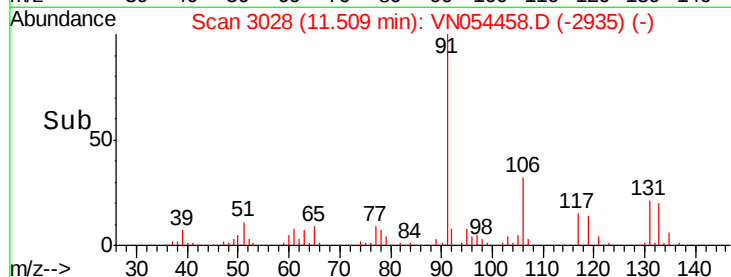
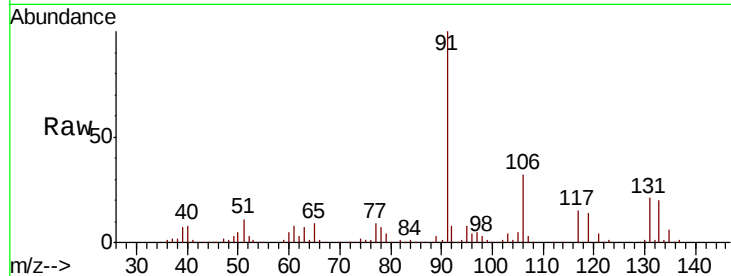
#67
Ethyl Benzene
Concen: 19.795 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN054458.D
Acq: 20 Mar 2019 11:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion: 91 Resp: 503258
Ion Ratio Lower Upper
91 100
106 31.6 25.5 38.3

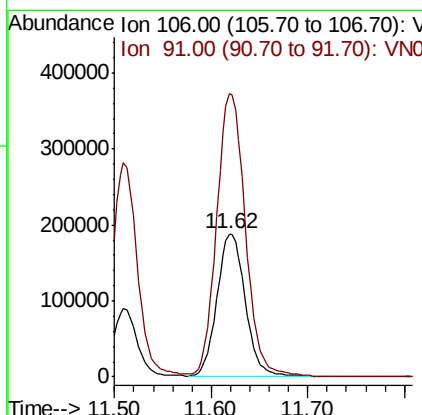
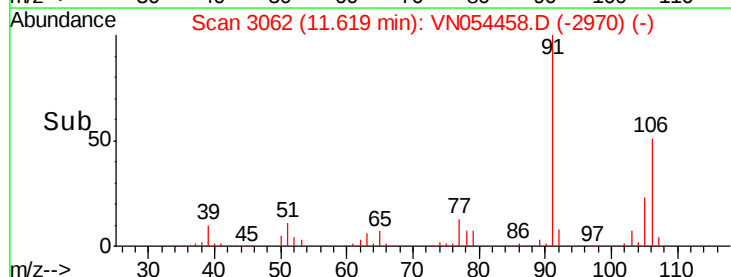
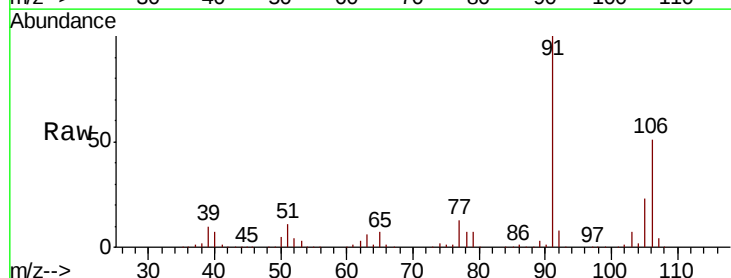
Manual Integrations
APPROVED

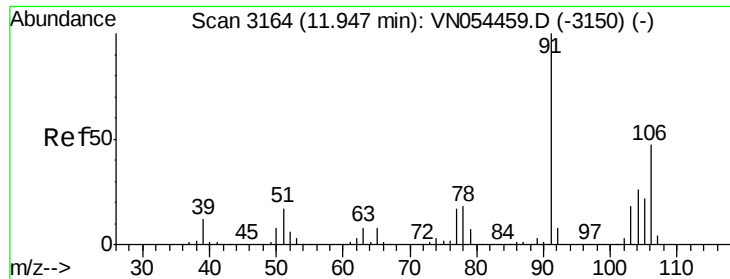
MMDadoda
3/22/2019 3:16:11 PM



#68
m/p-Xylenes
Concen: 38.772 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN054458.D
Acq: 20 Mar 2019 11:14

Tgt Ion: 106 Resp: 385267
Ion Ratio Lower Upper
106 100
91 200.5 159.4 239.2





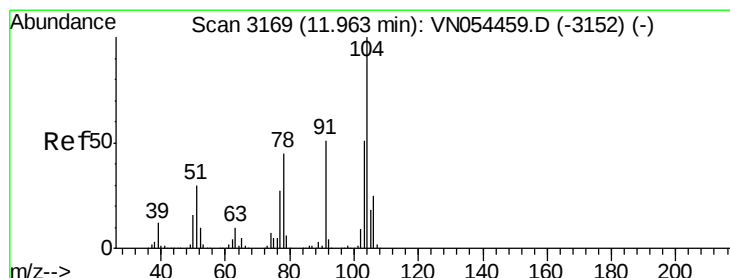
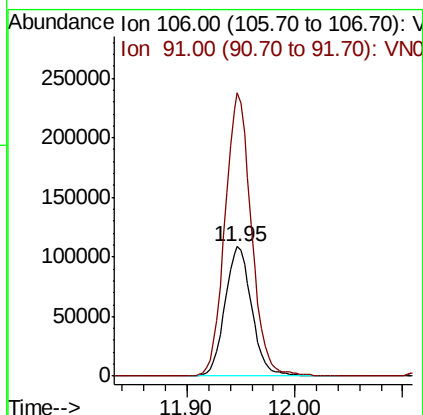
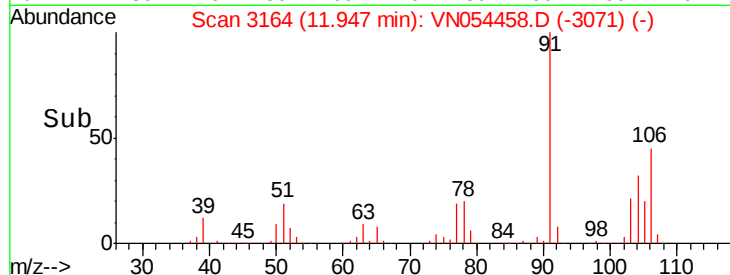
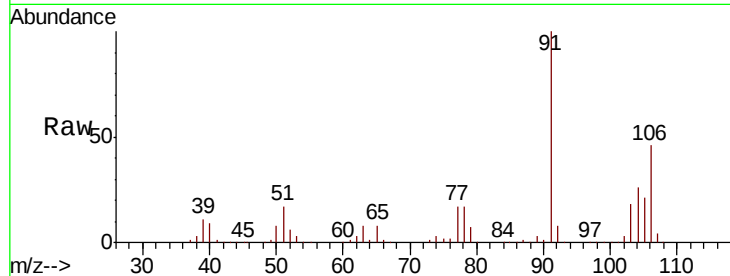
#69
o-Xylene
Concen: 19.374 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN054458.D
Acq: 20 Mar 2019 11:14

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion:106 Resp: 187673
Ion Ratio Lower Upper
106 100
91 216.3 105.7 317.1

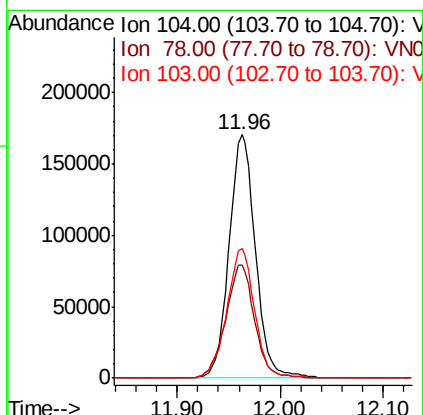
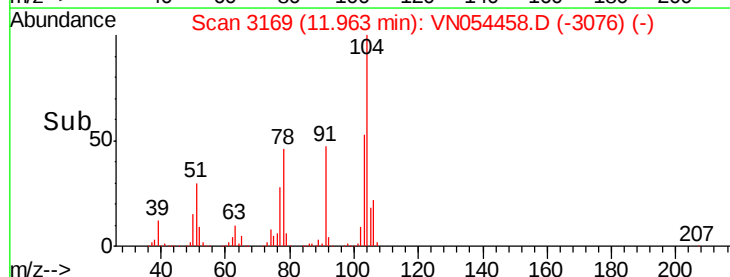
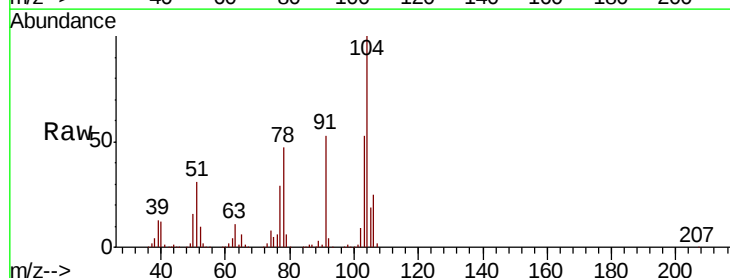
Manual Integrations
APPROVED

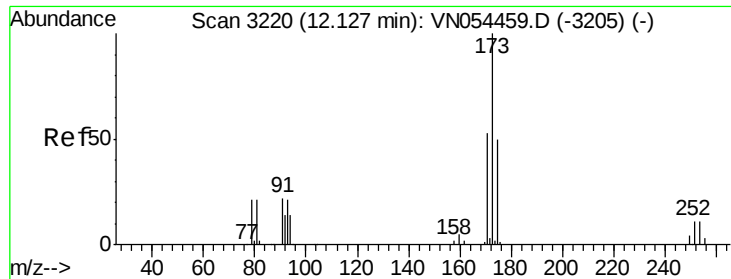
MMDadoda
3/22/2019 3:16:11 PM



#70
Styrene
Concen: 20.009 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN054458.D
Acq: 20 Mar 2019 11:14

Tgt Ion:104 Resp: 303975
Ion Ratio Lower Upper
104 100
78 50.9 38.2 57.2
103 56.0 44.4 66.6





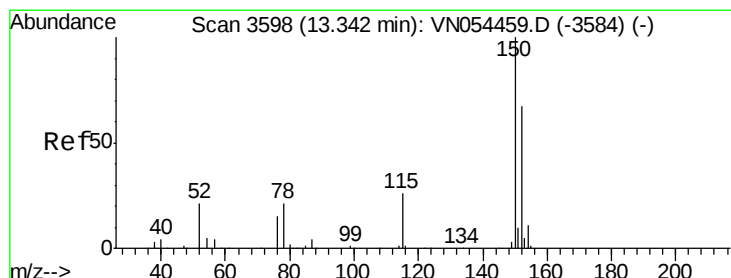
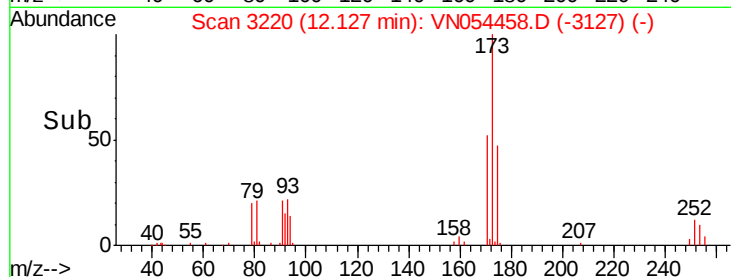
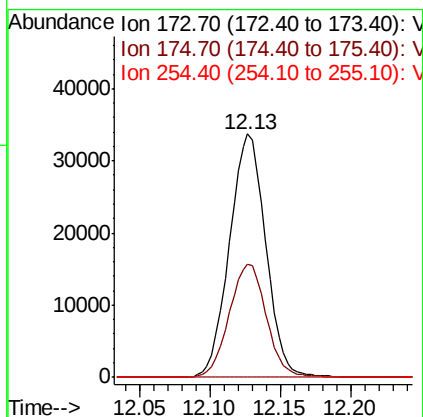
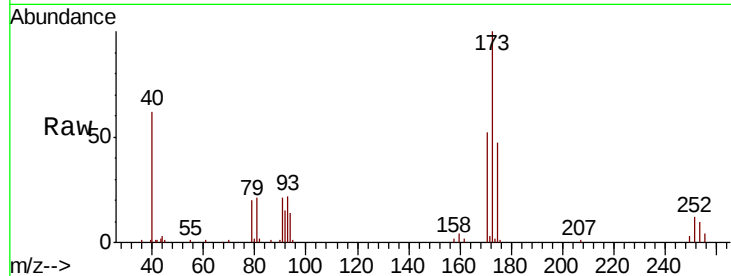
#71
Bromoform
Concen: 16.442 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. -0.00 min
Lab File: VN054458.D
Acq: 20 Mar 2019 11:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
173	100		
175	47.5	24.4	73.2
254	0.0	0.1	0.1#

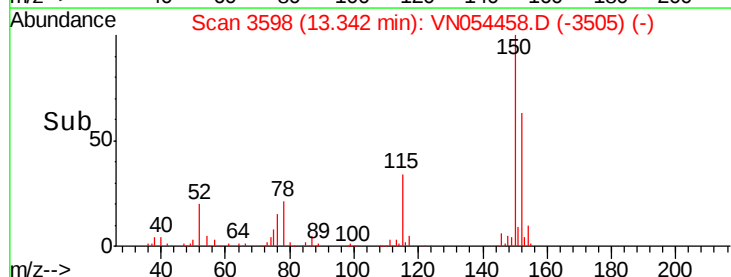
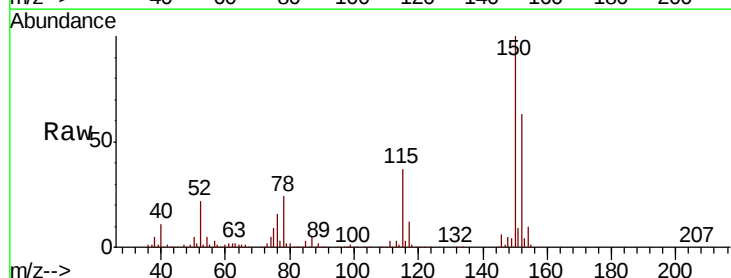
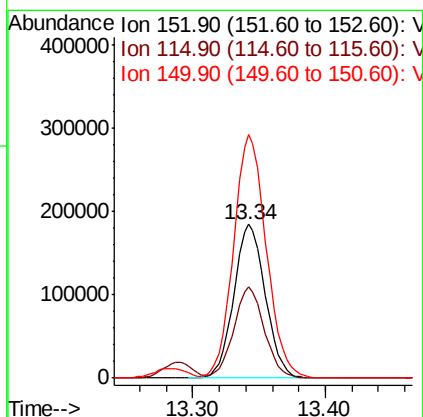
Manual Integrations
APPROVED

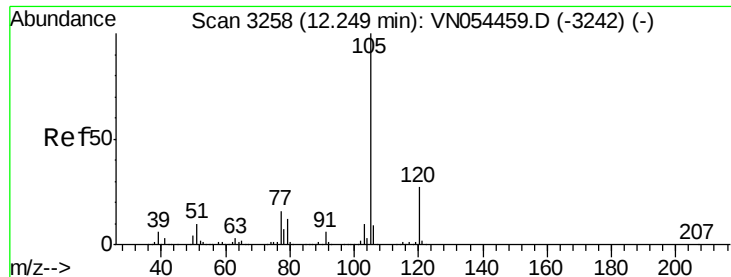
MMDadoda
3/22/2019 3:16:11 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN054458.D
Acq: 20 Mar 2019 11:14

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.7	27.2	81.6
150	164.6	0.0	349.2





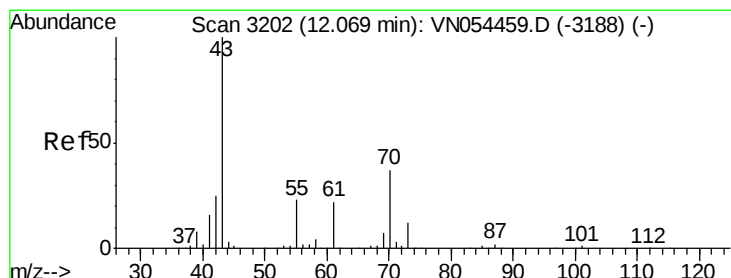
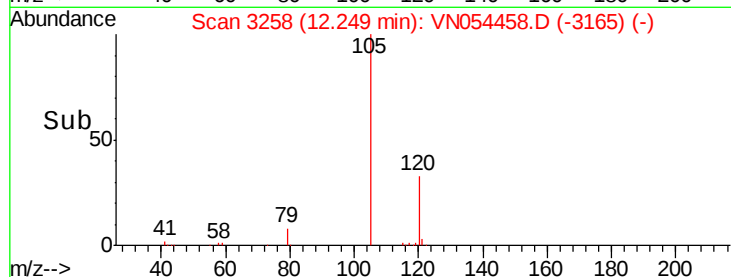
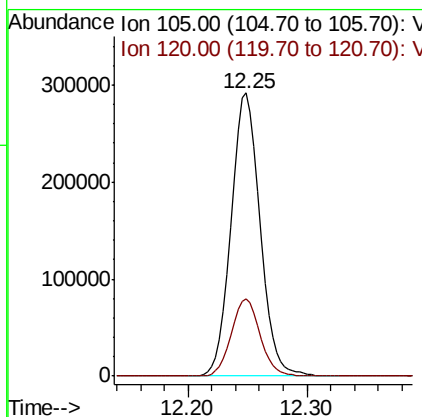
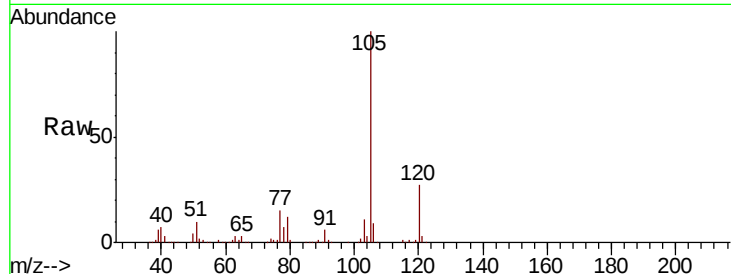
#73
Isopropylbenzene
Concen: 20.315 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. -0.00 min
Lab File: VN054458.D
Acq: 20 Mar 2019 11:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
105	100		
120	27.2	13.8	41.3

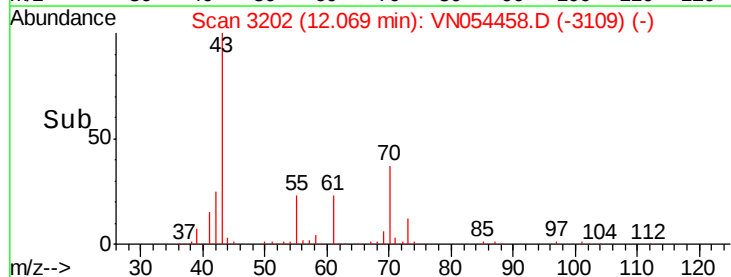
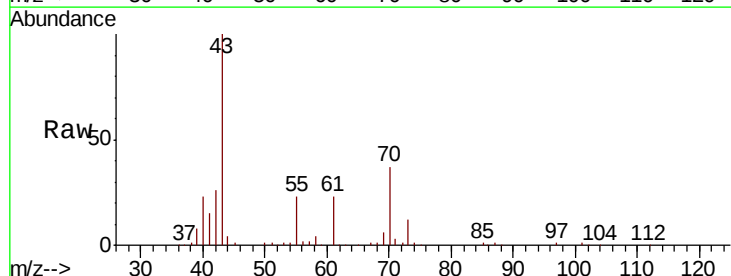
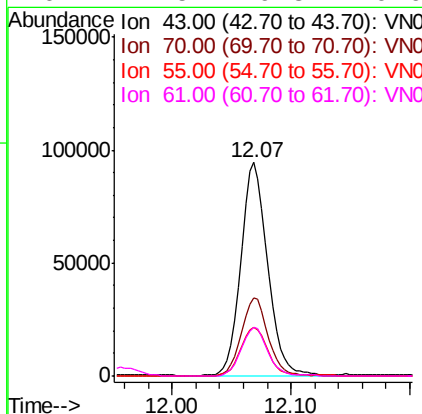
Manual Integrations
APPROVED

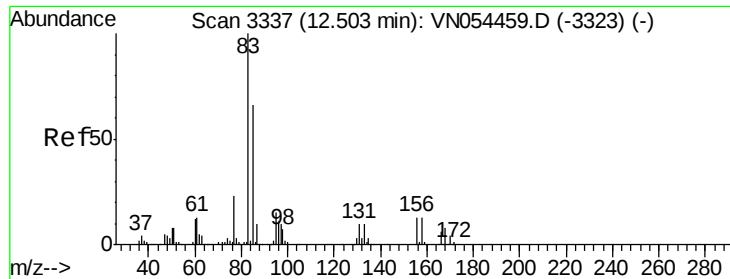
MMDadoda
3/22/2019 3:16:11 PM



#74
N-ethyl acetate
Concen: 27.545 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. -0.00 min
Lab File: VN054458.D
Acq: 20 Mar 2019 11:14

Tgt Ion	Ratio	Lower	Upper
43	100		
70	36.5	35.4	53.0
55	22.9	19.8	29.6
61	22.5	19.8	29.6





#75

1,1,2,2-Tetrachloroethane

Concen: 21.725 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN054458.D

Acq: 20 Mar 2019 11:14

Instrument :

MSVOA_N

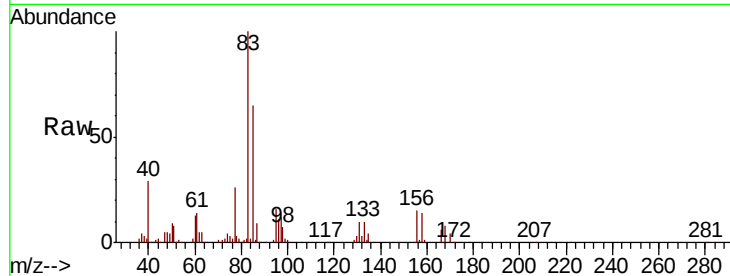
ClientSampleId :

VSTDIC020

Tot Ion:	83	Resp:	112226
Ion Ratio	Lower	Upper	
83	100		
131	11.1	5.8	17.4
85	65.9	32.2	96.6

Manual Integrations
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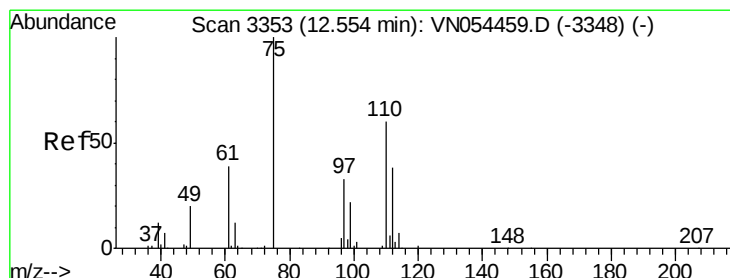
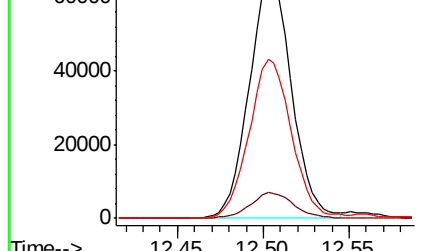
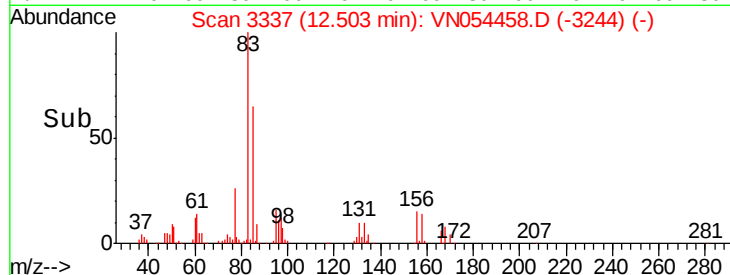


Abundance Ion 82.90 (82.60 to 83.60): VN054459.D (-3323) (-)

Ion 130.80 (130.50 to 131.50): VN054459.D (-3323) (-)

Ion 84.90 (84.60 to 85.60): VN054459.D (-3323) (-)

Time-->



#76

1,2,3-Trichloropropane

Concen: 22.087 ug/l m

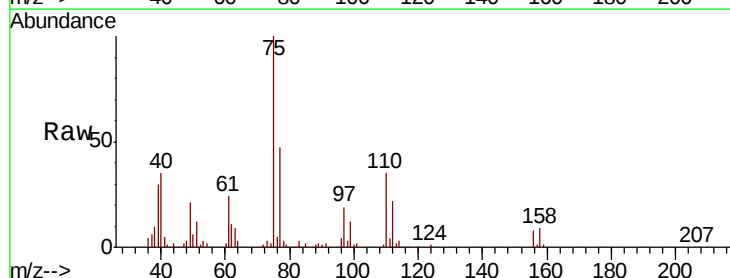
RT: 12.55 min Scan# 3353

Delta R.T. -0.00 min

Lab File: VN054458.D

Acq: 20 Mar 2019 11:14

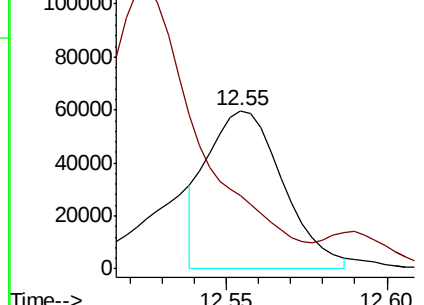
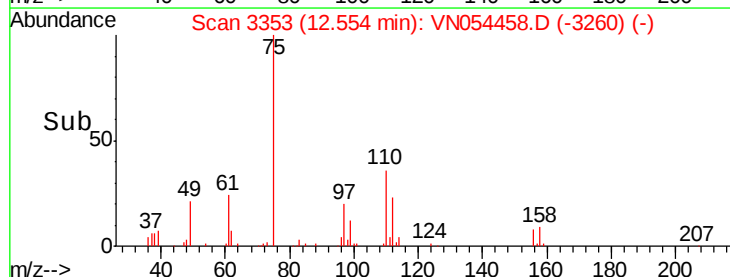
Tgt Ion:	75	Resp:	98432
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0

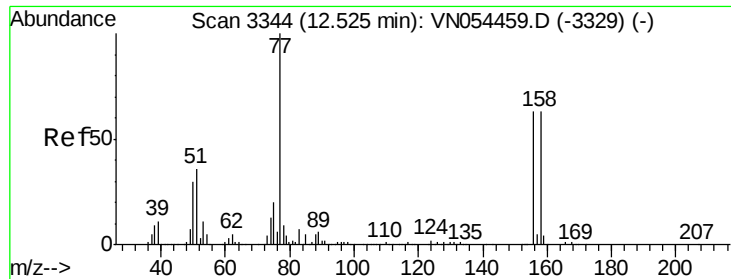


Abundance Ion 74.90 (74.60 to 75.60): VN054459.D (-3348) (-)

Ion 77.00 (76.70 to 77.70): VN054459.D (-3348) (-)

Time-->





#77

Bromobenzene

Concen: 18.454 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN054458.D

Acq: 20 Mar 2019 11:14

Instrument :

MSVOA_N

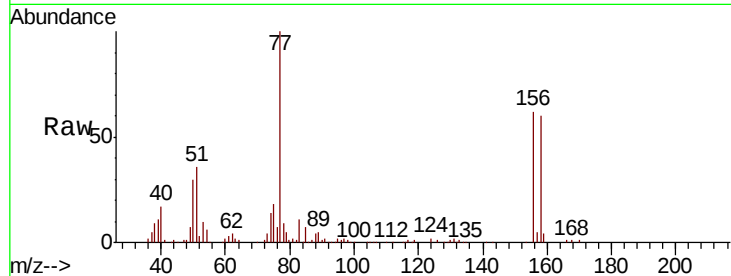
ClientSampled :

VSTDIC020

Tot Ion	Ratio	Lower	Upper
156	100		
77	189.8	81.5	244.4
158	99.6	49.0	147.2

Manual Integrations
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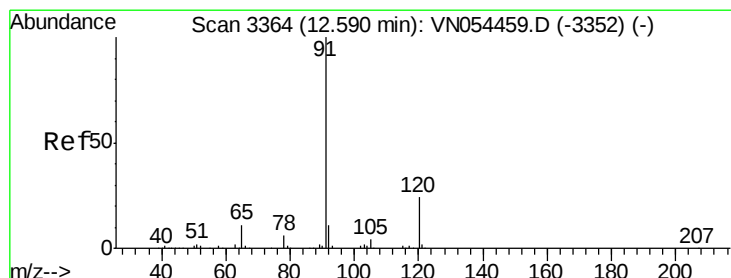
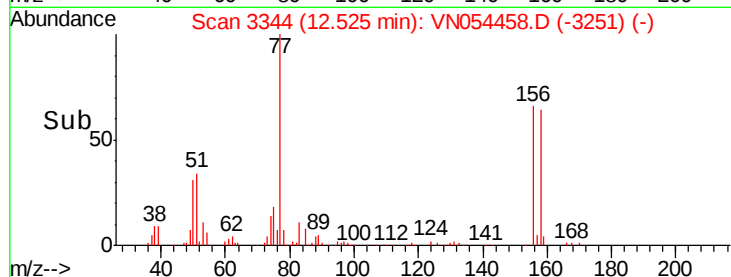
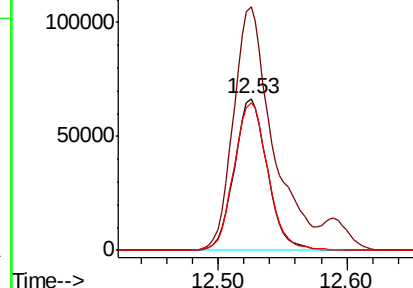
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VNO

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 20.225 ug/l

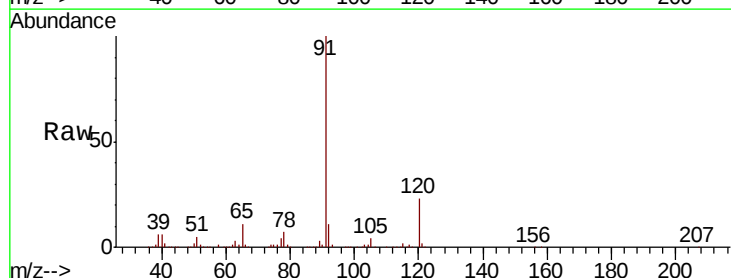
RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN054458.D

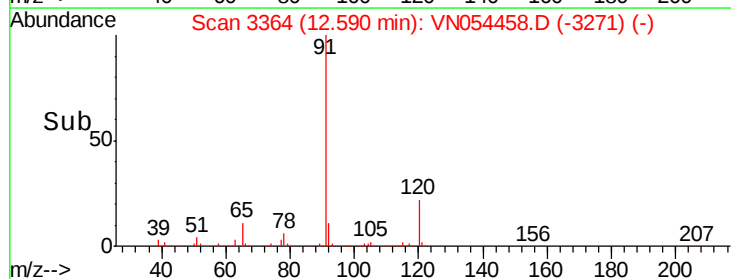
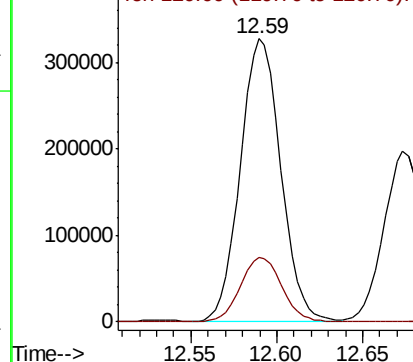
Acq: 20 Mar 2019 11:14

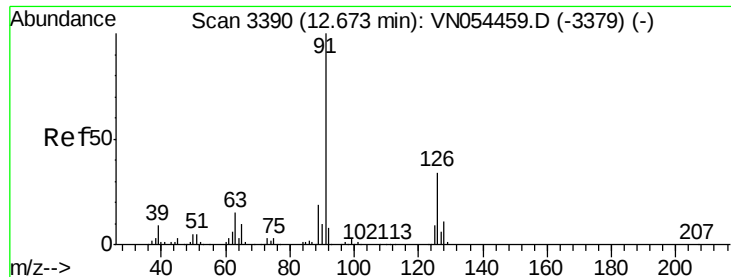
Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.5	12.3	36.9



Abundance Ion 91.00 (90.70 to 91.70): VNO

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 20.821 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN054458.D

Acq: 20 Mar 2019 11:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 91 Resp: 329358

Ion Ratio Lower Upper

91 100

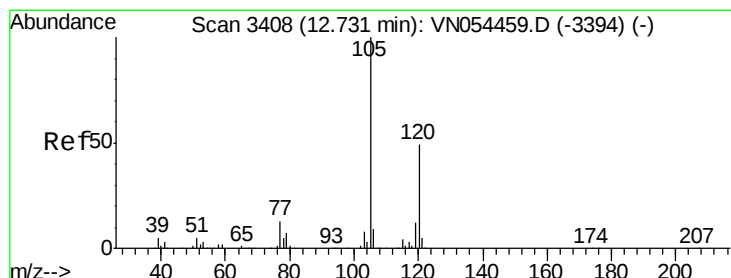
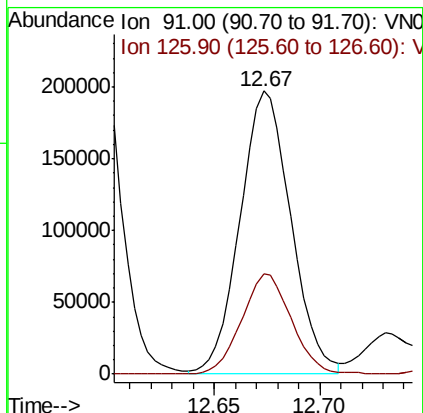
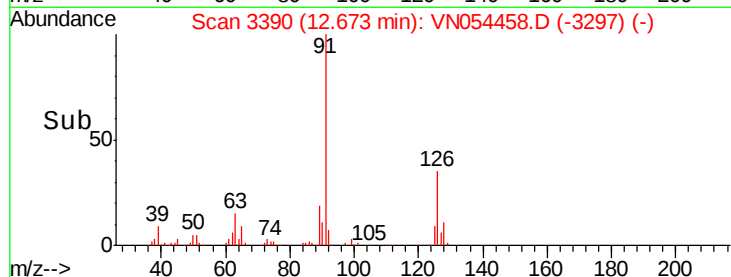
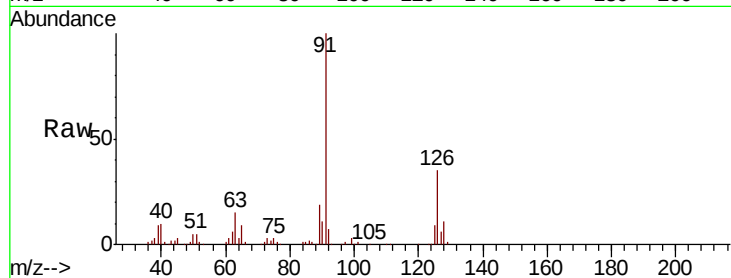
126 34.8 18.7 56.1

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 19.949 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN054458.D

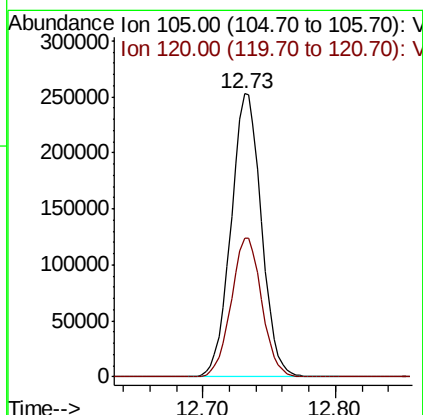
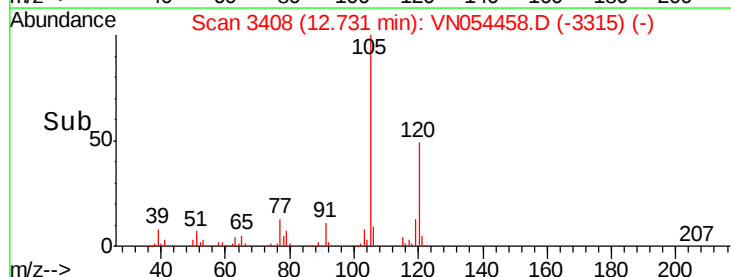
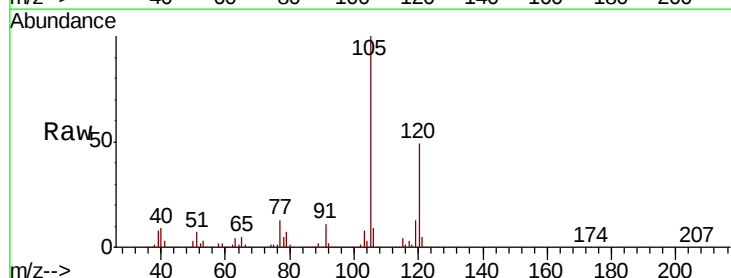
Acq: 20 Mar 2019 11:14

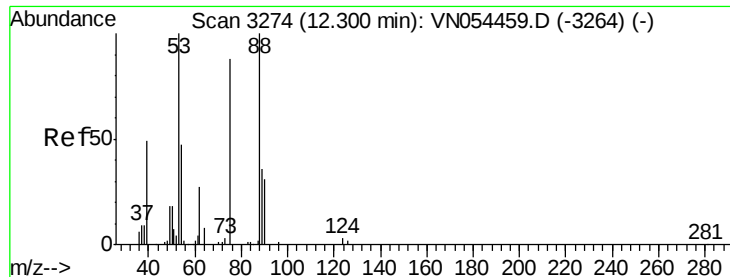
Tgt Ion: 105 Resp: 402335

Ion Ratio Lower Upper

105 100

120 49.3 25.0 75.0





#81

trans-1,4-Dichloro-2-butene

Concen: 17.246 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. -0.00 min

Lab File: VN054458.D

Acq: 20 Mar 2019 11:14

Instrument :

MSVOA_N

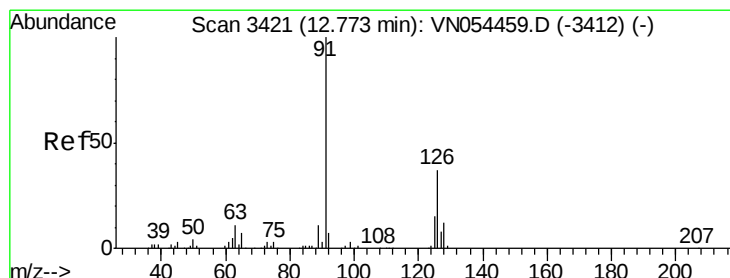
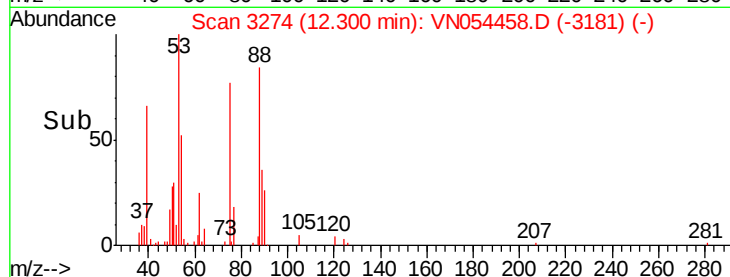
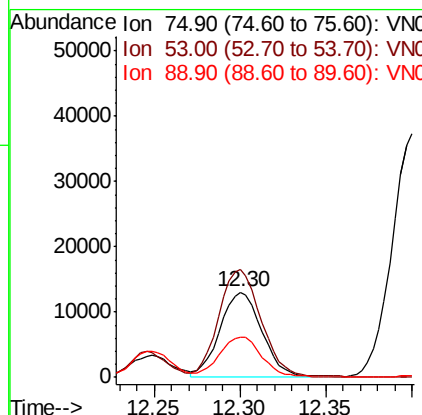
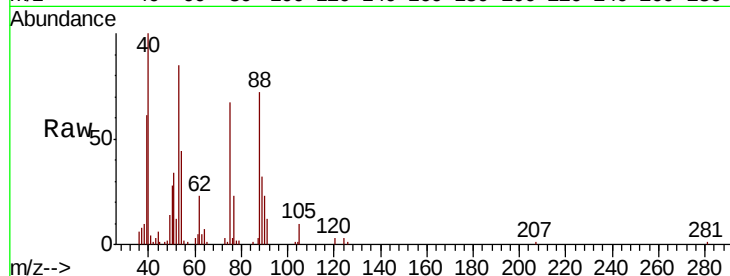
ClientSampled :

VSTDIC020

Tot Ion	Ratio	Lower	Upper
75	100		
53	122.7	76.2	114.2#
89	47.0	39.2	58.8

Manual Integrations
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#82

4-Chlorotoluene

Concen: 20.253 ug/l

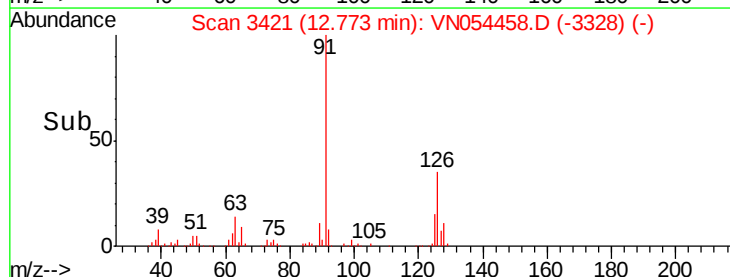
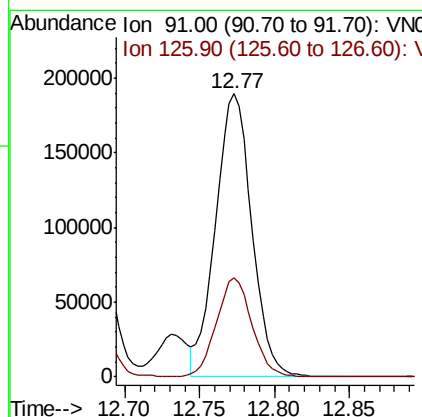
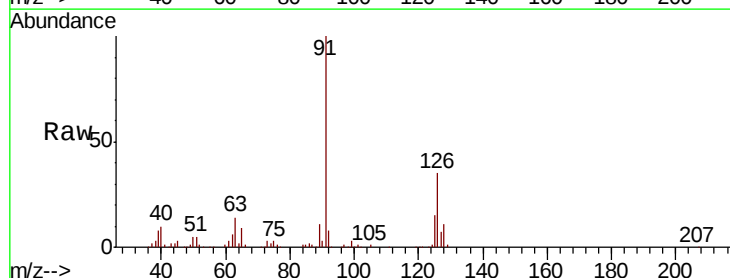
RT: 12.77 min Scan# 3421

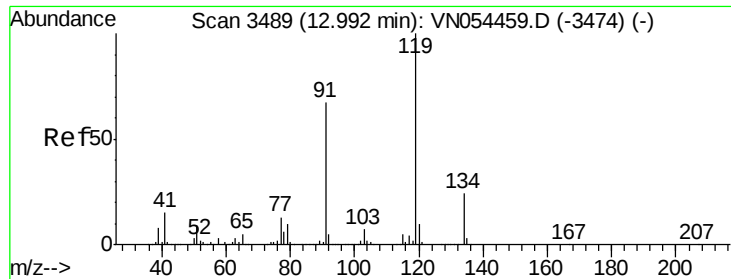
Delta R.T. -0.00 min

Lab File: VN054458.D

Acq: 20 Mar 2019 11:14

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.2	18.1	54.1





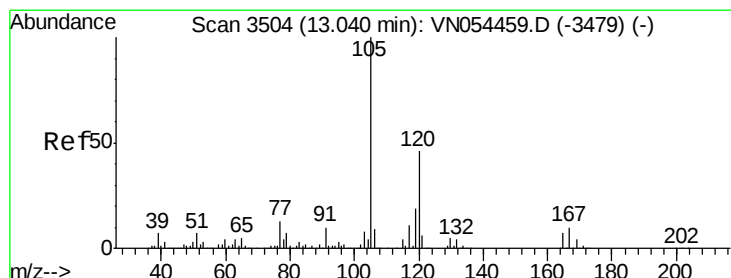
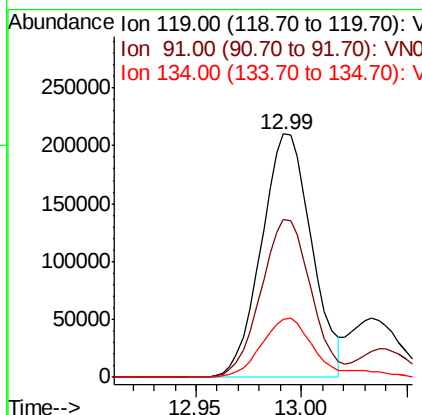
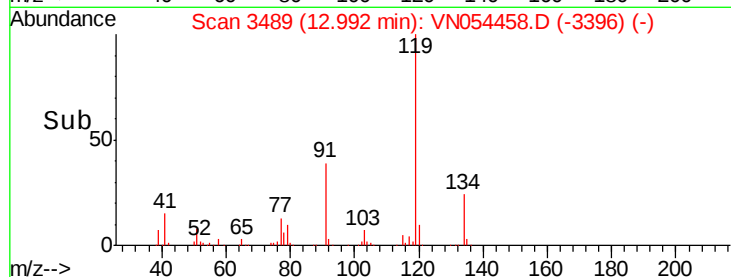
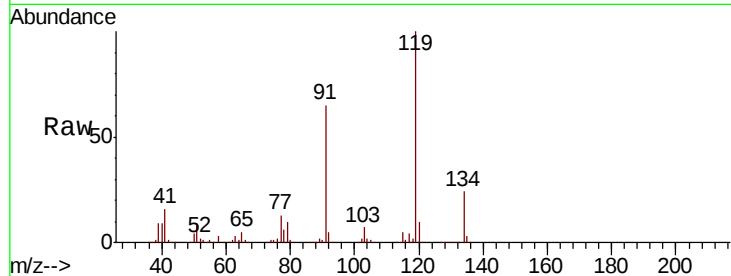
#83
tert-Butylbenzene
Concen: 18.786 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. -0.00 min
Lab File: VN054458.D
Acq: 20 Mar 2019 11:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
119	100		
91	64.6	30.9	92.8
134	24.3	13.2	39.6

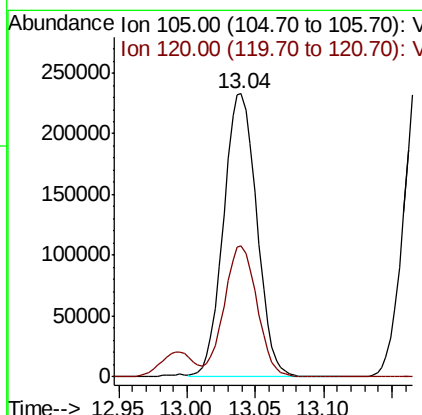
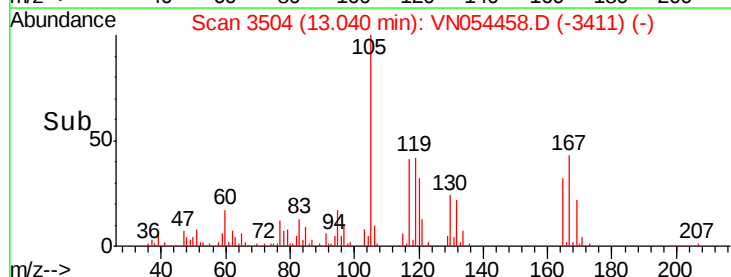
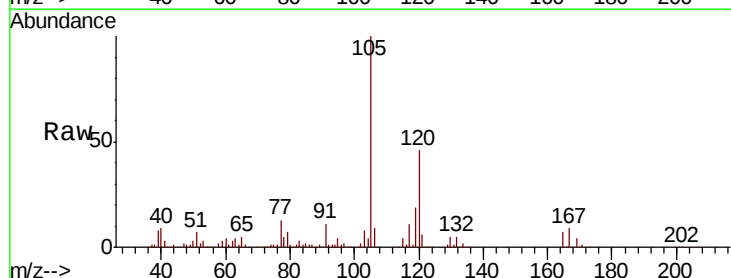
Manual Integrations
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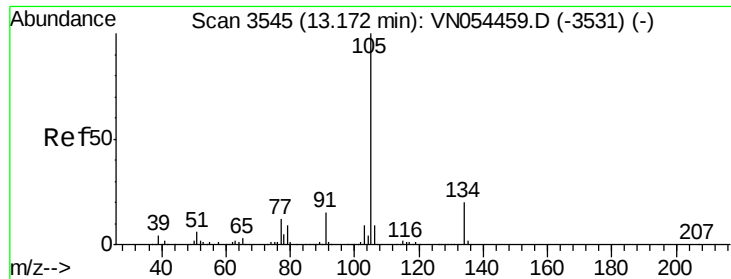
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#84
1,2,4-Trimethylbenzene
Concen: 19.989 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. -0.00 min
Lab File: VN054458.D
Acq: 20 Mar 2019 11:14

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.6	23.4	70.3





#85

sec-Butylbenzene

Concen: 18.017 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN054458.D

Acq: 20 Mar 2019 11:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:105 Resp: 433730

Ion Ratio Lower Upper

105 100

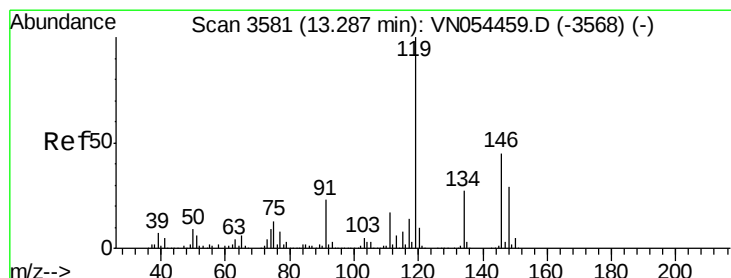
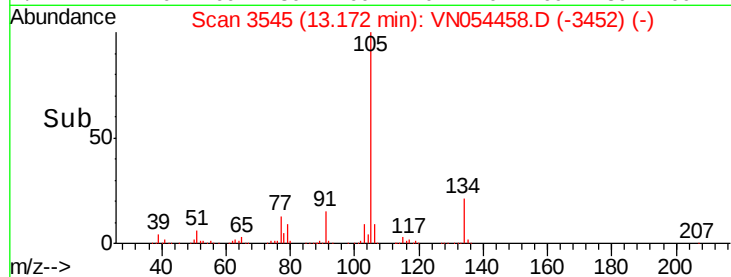
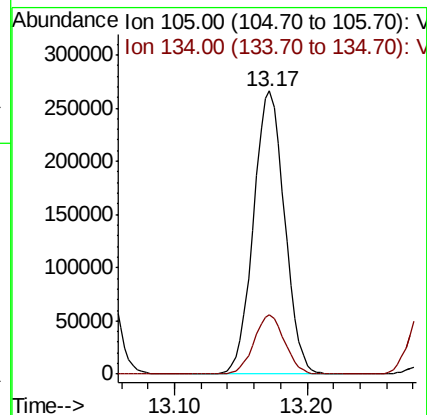
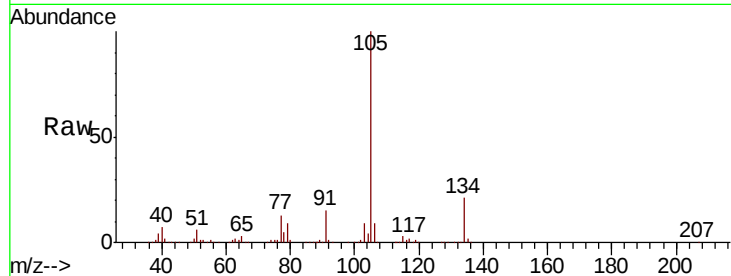
134 20.7 10.7 32.1

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 18.412 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN054458.D

Acq: 20 Mar 2019 11:14

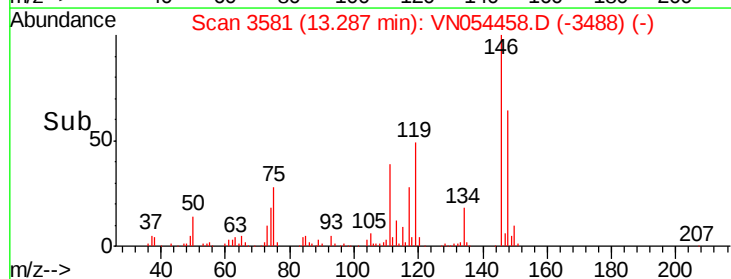
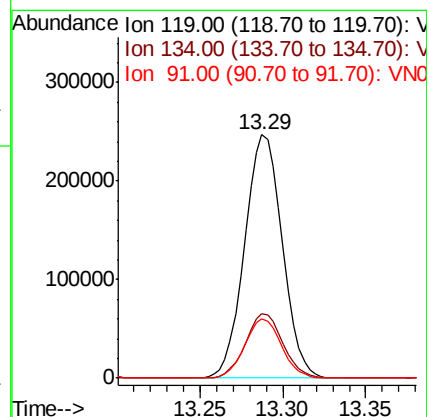
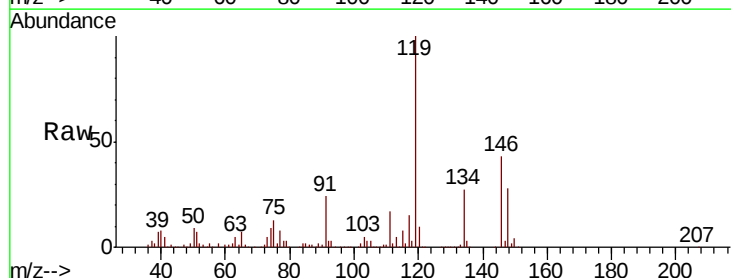
Tgt Ion:119 Resp: 388861

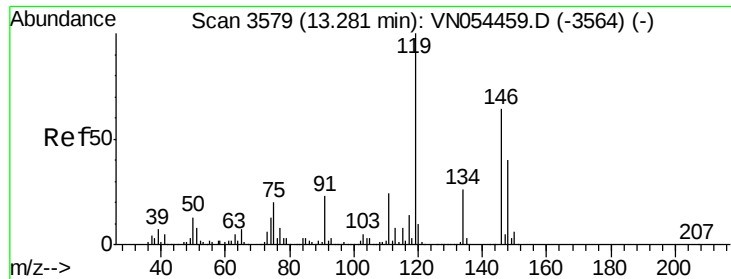
Ion Ratio Lower Upper

119 100

134 26.4 13.6 40.8

91 23.8 11.1 33.3





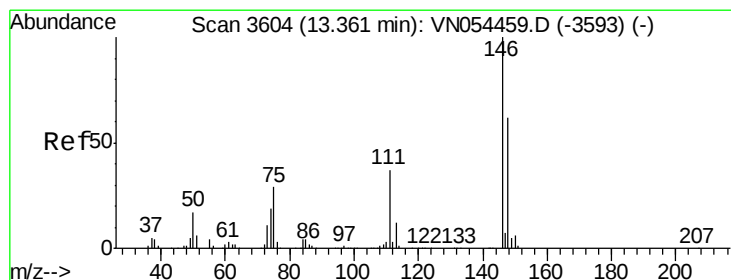
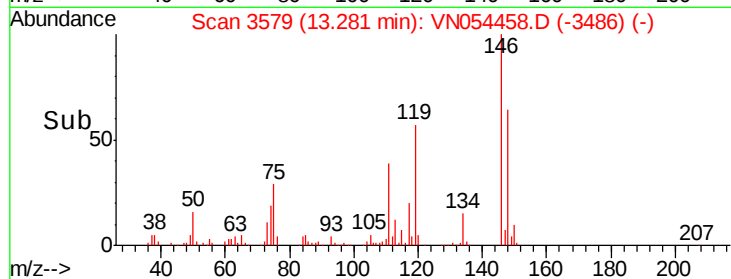
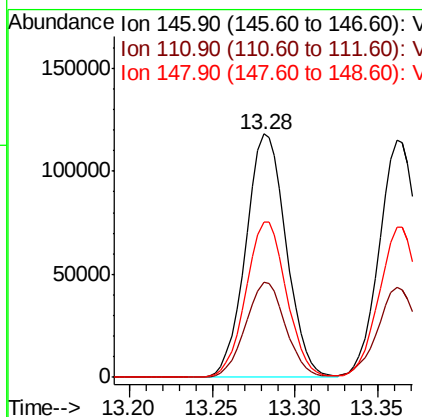
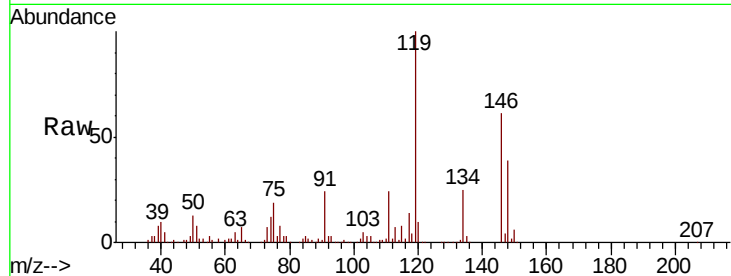
#87
 1,3-Dichlorobenzene
 Concen: 18.476 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. -0.00 min
 Lab File: VN054458.D
 Acq: 20 Mar 2019 11:14

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.8	18.8	56.3
148	64.0	32.2	96.6

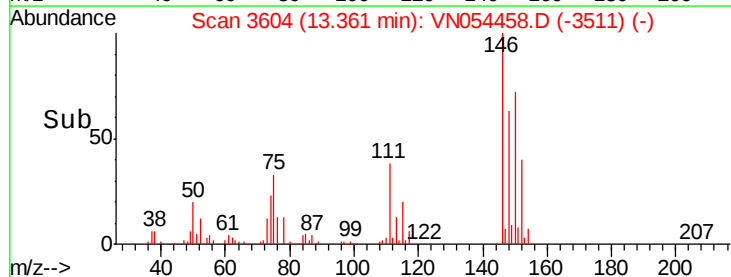
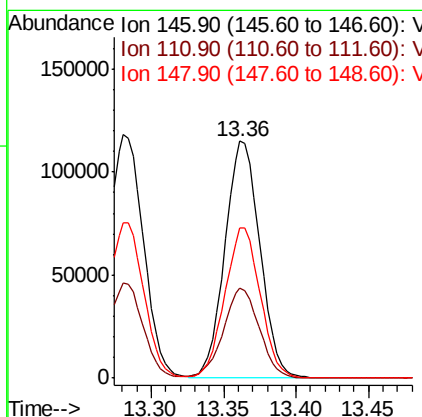
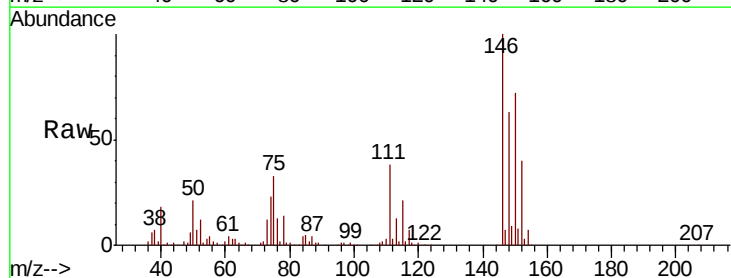
Manual Integrations
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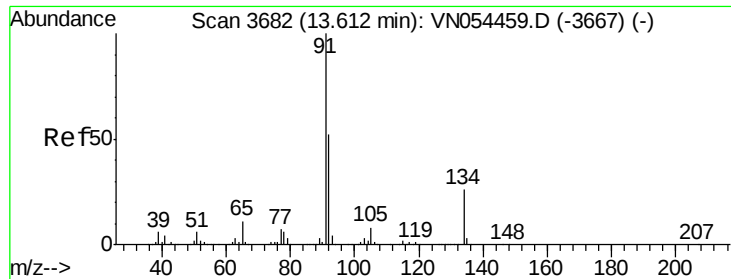
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#88
 1,4-Dichlorobenzene
 Concen: 18.142 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. -0.00 min
 Lab File: VN054458.D
 Acq: 20 Mar 2019 11:14

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.1	18.1	54.1
148	64.5	32.0	96.0





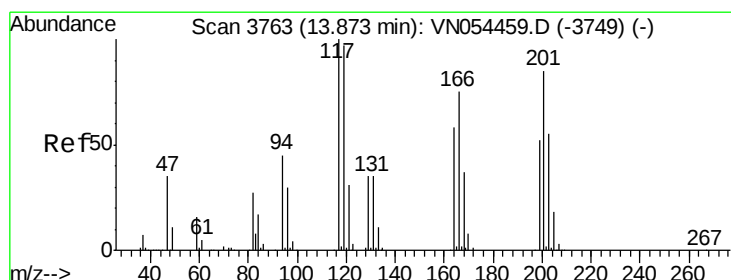
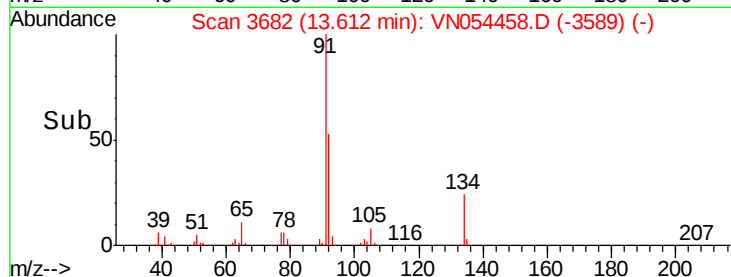
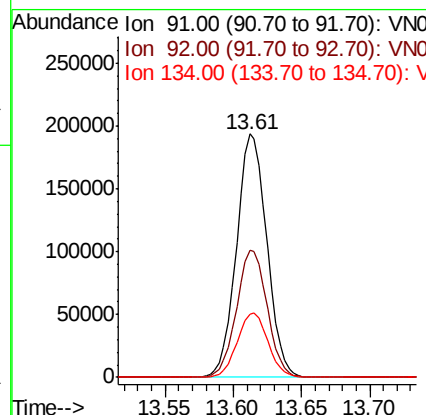
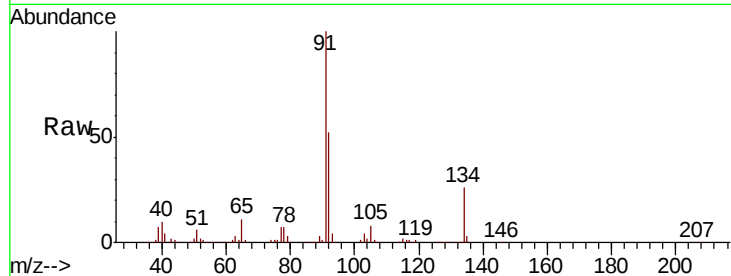
#89
n-Butylbenzene
Concen: 18.610 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. -0.00 min
Lab File: VN054458.D
Acq: 20 Mar 2019 11:14

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.8	26.2	78.6
134	26.9	14.3	42.9

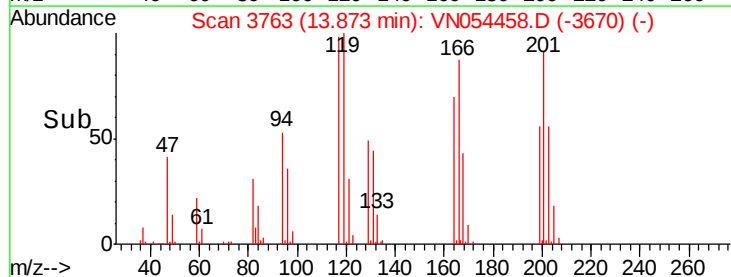
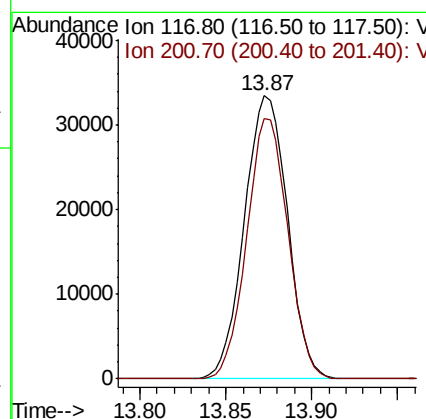
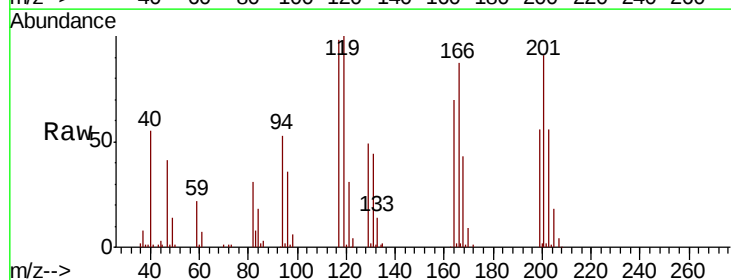
Manual Integrations
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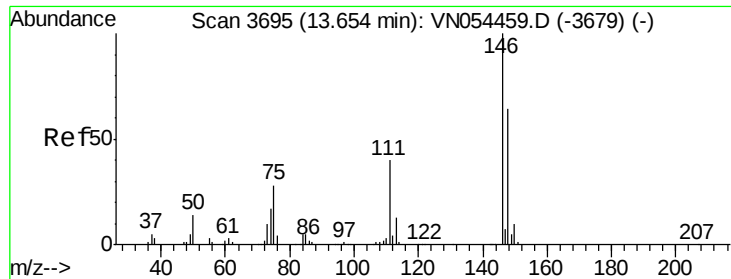
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#90
Hexachloroethane
Concen: 16.685 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN054458.D
Acq: 20 Mar 2019 11:14

Tgt Ion	Ratio	Lower	Upper
117	100		
201	87.8	48.1	144.4





#91

1,2-Dichlorobenzene

Concen: 18.869 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. -0.00 min

Lab File: VN054458.D

Acq: 20 Mar 2019 11:14

Instrument :

MSVOA_N

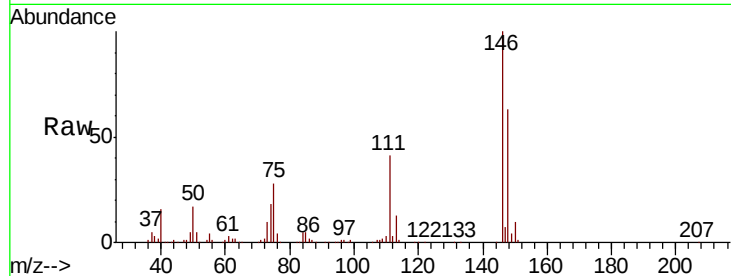
ClientSampleId :

VSTDIC020

Tot Ion:	146	Resp:	199426
Ion Ratio	Lower	Upper	
146	100		
111	40.9	19.1	57.3
148	63.2	32.4	97.0

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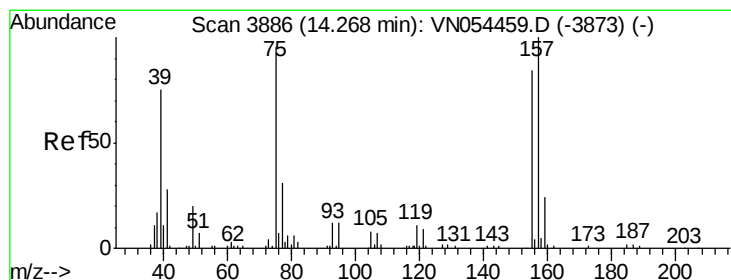
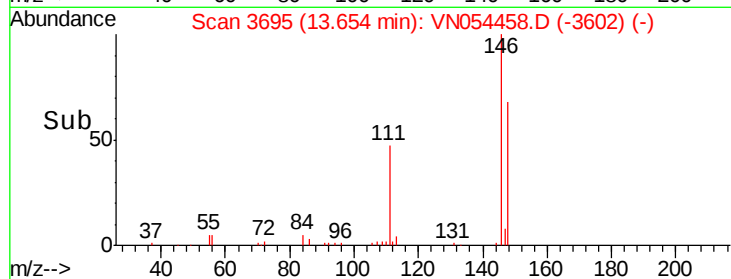
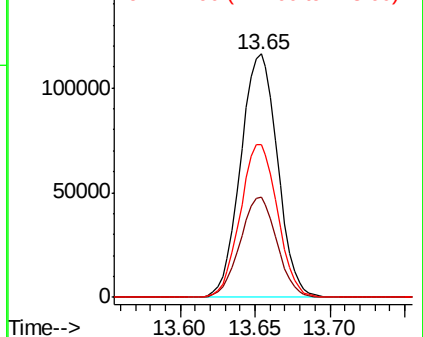


Abundance

Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 20.621 ug/l

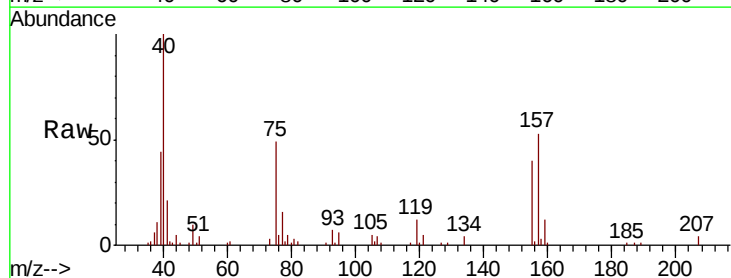
RT: 14.26 min Scan# 3885

Delta R.T. -0.00 min

Lab File: VN054458.D

Acq: 20 Mar 2019 11:14

Tgt Ion:	75	Resp:	16484
Ion Ratio	Lower	Upper	
75	100		
155	88.2	50.1	150.3
157	110.7	63.1	189.3

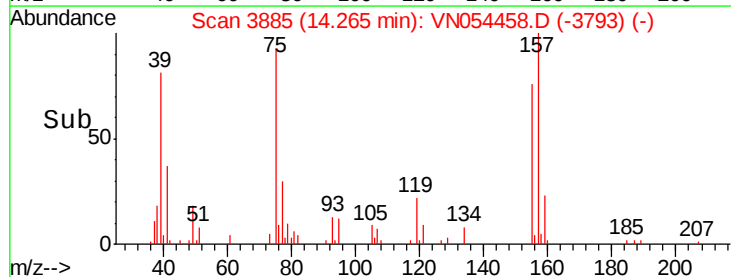
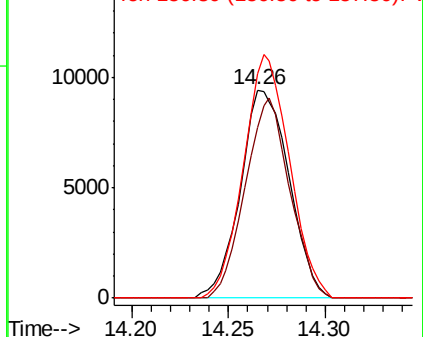


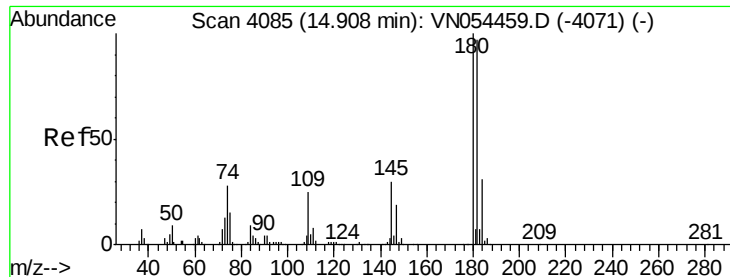
Abundance

Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





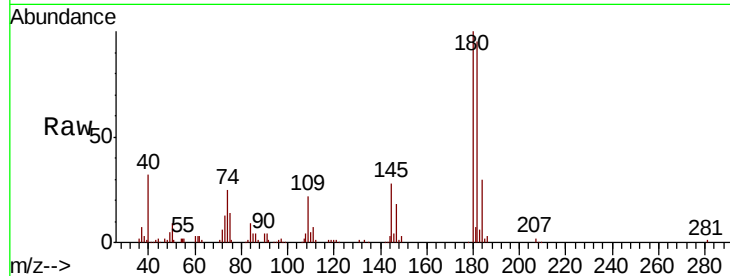
#93
 1,2,4-Trichlorobenzene
 Concen: 17.572 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN054458.D
 Acq: 20 Mar 2019 11:14

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
180	100	95981		
182	95.4	48.0	144.2	
145	28.5	14.2	42.8	

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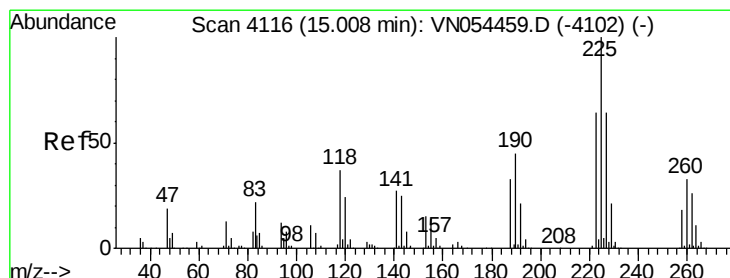
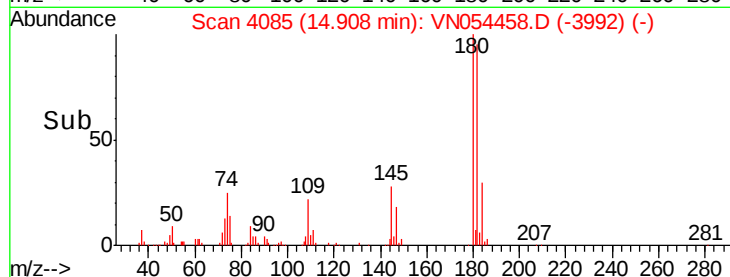
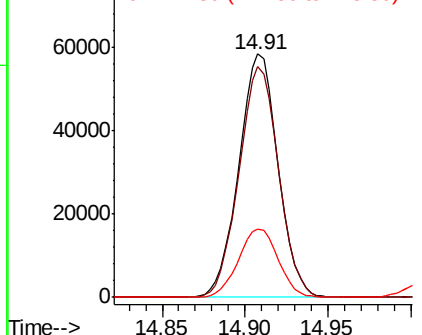


Abundance

Ion 179.80 (179.50 to 180.50): V

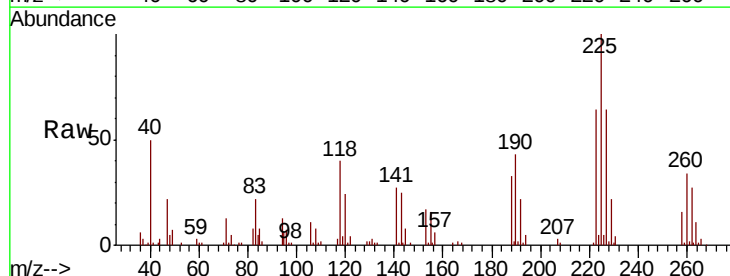
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
 Hexachlorobutadiene
 Concen: 15.277 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. -0.00 min
 Lab File: VN054458.D
 Acq: 20 Mar 2019 11:14

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	61500		
223	63.7	31.1	93.5	
227	65.8	31.9	95.9	

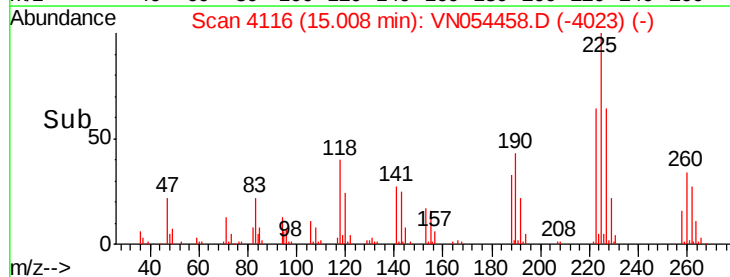
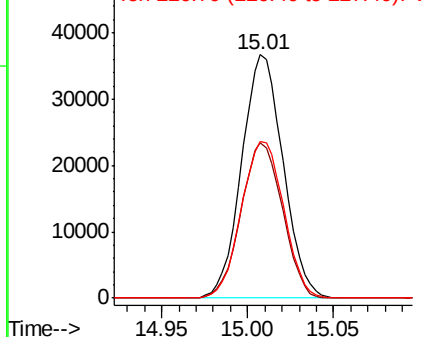


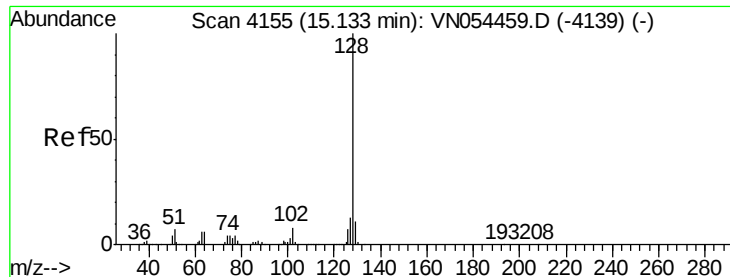
Abundance

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: 18.401 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN054458.D

Acq: 20 Mar 2019 11:14

Instrument :

MSVOA_N

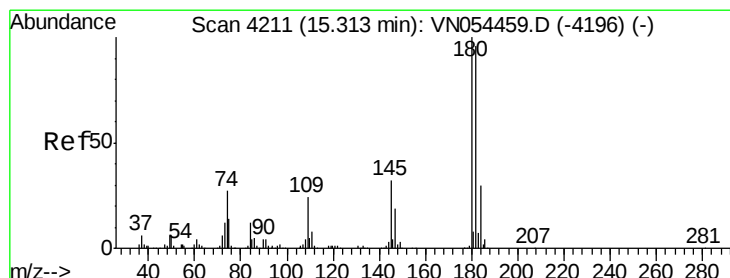
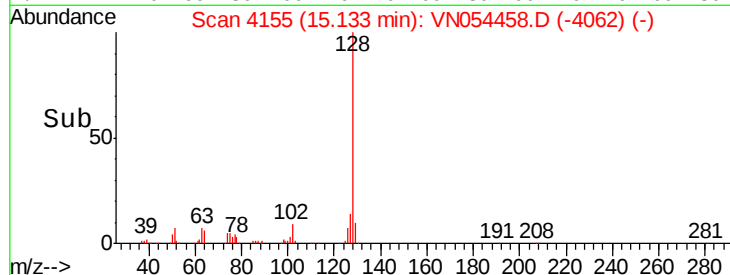
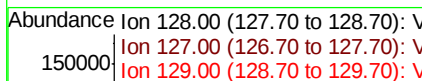
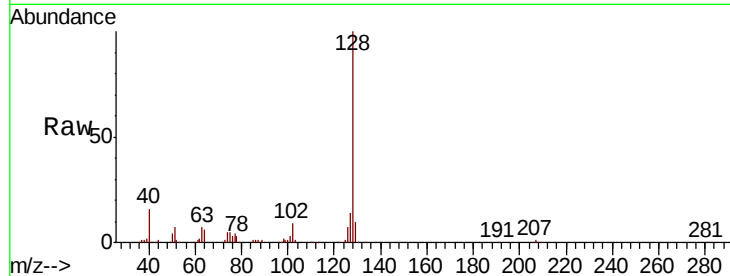
ClientSampleId :

VSTDIC020

Tot Ion:	128	Resp:	206743
Ion Ratio	Lower	Upper	
128	100		
127	13.7	10.1	15.1
129	10.8	8.7	13.1

Manual Integrations
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#96

1,2,3-Trichlorobenzene

Concen: 17.062 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. -0.00 min

Lab File: VN054458.D

Acq: 20 Mar 2019 11:14

Tgt Ion:	180	Resp:	95810
Ion Ratio	Lower	Upper	
180	100		
182	96.0	47.5	142.6
145	31.0	14.8	44.3

