

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN121718\
 Data File : VN052940.D
 Acq On : 17 Dec 2018 20:58
 Operator : MD\SY
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 27 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 12/18/2018 1:33:37 PM

Quant Time: Dec 18 06:25:57 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 13 01:08:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1083833	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1672035	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1500698	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	717006	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	569198	49.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.78%	
35) Dibromofluoromethane	7.59	113	370610	39.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	79.42%	
50) Toluene-d8	10.09	98	2012298	49.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.46%	
62) 4-Bromofluorobenzene	12.40	95	708863	51.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.40%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	515099	46.168	ug/l	100
3) Chloromethane	2.06	50	621964	46.448	ug/l	99
4) Vinyl Chloride	2.19	62	630537	47.067	ug/l	100
5) Bromomethane	2.57	94	406141	49.153	ug/l	99
6) Chloroethane	2.71	64	374914	47.346	ug/l	99
7) Trichlorofluoromethane	3.03	101	794376	47.828	ug/l	99
8) Diethyl Ether	3.41	74	309297	51.051	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.77	101	496138	48.199	ug/l	99
10) Methyl Iodide	3.96	142	730906	50.702	ug/l	100
11) Tert butyl alcohol	4.77	59	183017	284.222	ug/l	99
12) 1,1-Dichloroethene	3.74	96	486137	48.786	ug/l	98
13) Acrolein	3.61	56	97595	160.979	ug/l	100
14) Allyl chloride	4.33	41	763006	46.880	ug/l	98
15) Acrylonitrile	4.99	53	944855	261.554	ug/l	100
16) Acetone	3.81	43	602790	232.894	ug/l	97
17) Carbon Disulfide	4.06	76	1431086	46.750	ug/l	99
18) Methyl Acetate	4.32	43	518138	54.547	ug/l	99
19) Methyl tert-butyl Ether	5.04	73	1399157	51.721	ug/l	100
20) Methylene Chloride	4.55	84	571649	49.078	ug/l	97
21) trans-1,2-Dichloroethene	5.05	96	511143	47.347	ug/l	99
22) Diisopropyl ether	5.95	45	1696581	48.861	ug/l	97
23) Vinyl Acetate	5.90	43	5007268	242.352	ug/l	99
24) 1,1-Dichloroethane	5.85	63	977243	48.805	ug/l	99
25) 2-Butanone	6.83	43	993319	247.336	ug/l	97
26) 2,2-Dichloropropane	6.83	77	676431	45.874	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	598318	48.831	ug/l	99
28) Bromochloromethane	7.20	49	443245	49.297	ug/l	97
29) Tetrahydrofuran	7.21	42	707491	258.047	ug/l	99
30) Chloroform	7.37	83	952896	48.801	ug/l	100
31) Cyclohexane	7.65	56	904520	46.274	ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	808256	49.474	ug/l	99
36) 1,1-Dichloropropene	7.79	75	737033	47.868	ug/l	100
37) Ethyl Acetate	6.93	43	469294	50.736	ug/l	99
38) Carbon Tetrachloride	7.78	117	683669	48.239	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	892853	47.253	ug/l	98
40) Benzene	8.04	78	2236636	48.399	ug/l	100
41) Methacrylonitrile	7.17	41	259677	50.668	ug/l	95
42) 1,2-Dichloroethane	8.12	62	673080	48.379	ug/l	99
43) Isopropyl Acetate	8.16	43	921302	48.580	ug/l	99
44) Trichloroethene	8.84	130	633644	50.763	ug/l	97
45) 1,2-Dichloropropane	9.12	63	597780	49.386	ug/l	100
46) Dibromomethane	9.21	93	344991	49.145	ug/l	98
47) Bromodichloromethane	9.40	83	724625	49.779	ug/l	100
48) Methyl methacrylate	9.20	41	440356	52.948	ug/l	100
49) 1,4-Dioxane	9.20	88	105001	1112.279	ug/l	97
51) 4-Methyl-2-Pentanone	9.99	43	2271395	261.201	ug/l	99
52) Toluene	10.16	92	1385724	49.509	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	776084	52.981	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	889551	50.961	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	501282	50.172	ug/l	97
56) Ethyl methacrylate	10.43	69	699956	54.589	ug/l	98
57) 1,3-Dichloropropane	10.71	76	857787	50.065	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	1919632	268.308	ug/l	99
59) 2-Hexanone	10.75	43	1538744	258.200	ug/l	99
60) Dibromochloromethane	10.90	129	553589	51.266	ug/l	100
61) 1,2-Dibromoethane	11.01	107	507228	51.359	ug/l	100
64) Tetrachloroethene	10.63	164	729428	56.553	ug/l	99
65) Chlorobenzene	11.44	112	1521135	48.857	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	545232	50.354	ug/l	100
67) Ethyl Benzene	11.51	91	2658683	49.726	ug/l	100
68) m/p-Xylenes	11.62	106	2022525	100.742	ug/l	99
69) o-Xylene	11.95	106	984554	50.222	ug/l	99
70) Styrene	11.96	104	1619149	51.378	ug/l	100
71) Bromoform	12.13	173	387647	52.696	ug/l #	100
73) Isopropylbenzene	12.25	105	2600909	48.584	ug/l	100
74) N-amyl acetate	12.07	43	804753	54.755	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	534763	44.572	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	514653m	48.650	ug/l	
77) Bromobenzene	12.53	156	673228	49.443	ug/l	98
78) n-propylbenzene	12.59	91	2982007	48.841	ug/l	100
79) 2-Chlorotoluene	12.68	91	1735065	48.069	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	2117050	48.988	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	185567	56.353	ug/l	96
82) 4-Chlorotoluene	12.77	91	1780585	48.248	ug/l	99
83) tert-Butylbenzene	12.99	119	1843660	48.362	ug/l	100
84) 1,2,4-Trimethylbenzene	13.04	105	2164587	49.476	ug/l	100
85) sec-Butylbenzene	13.17	105	2521211	48.835	ug/l	100
86) p-Isopropyltoluene	13.29	119	2202426	49.240	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	1181182	48.815	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	1161174	48.458	ug/l	99
89) n-Butylbenzene	13.62	91	1877668	49.866	ug/l	99
90) Hexachloroethane	13.88	117	336492	44.927	ug/l	100
91) 1,2-Dichlorobenzene	13.65	146	1136671	48.835	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	99656	55.103	ug/l	98

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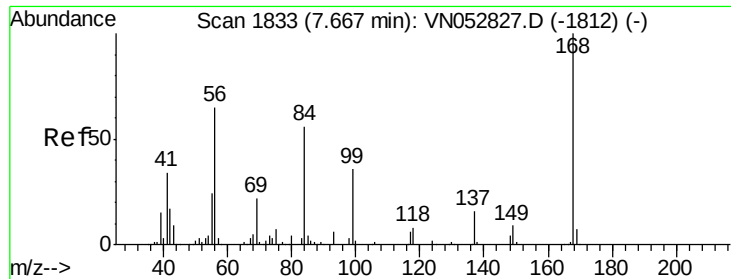
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	655729	51.826	ug/l	99
94) Hexachlorobutadiene	15.01	225	344022	46.975	ug/l	99
95) Naphthalene	15.13	128	1469600	56.081	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	579010	49.873	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN052940.D

Acq: 17 Dec 2018 20:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion:168 Resp: 1083833

Ion Ratio Lower Upper

168 100

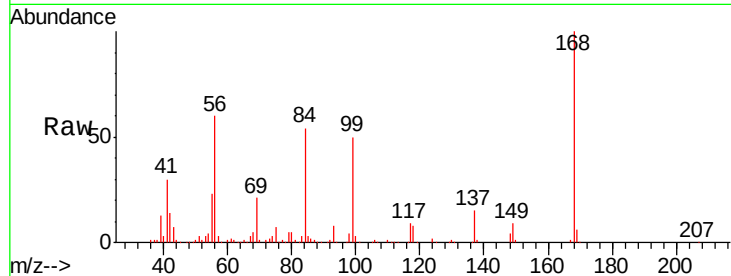
99 49.7 40.2 60.2

Manual Integrations

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12/18/2018 1:33:37 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

500000

400000

300000

200000

100000

0

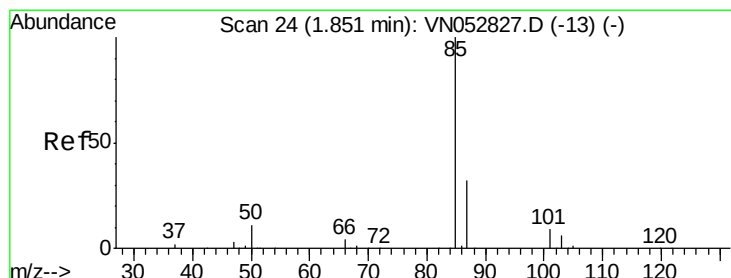
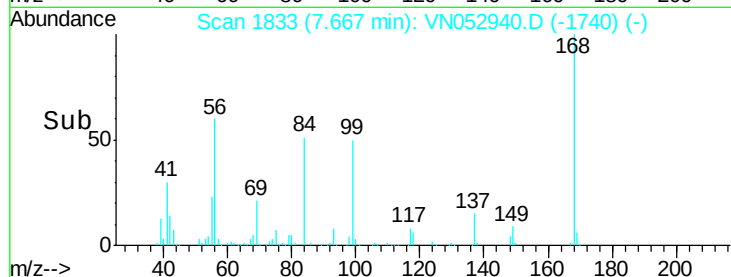
7.67

7.60

7.70

7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 46.168 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN052940.D

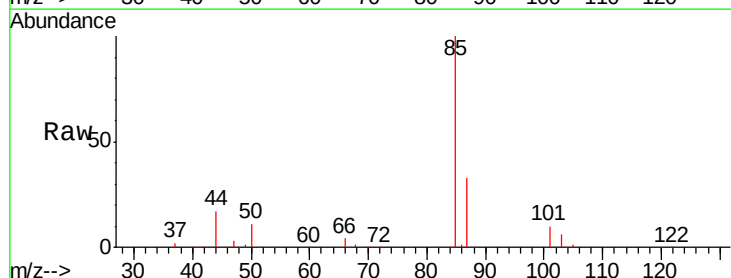
Acq: 17 Dec 2018 20:58

Tgt Ion: 85 Resp: 515099

Ion Ratio Lower Upper

85 100

87 32.6 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

400000

300000

200000

100000

0

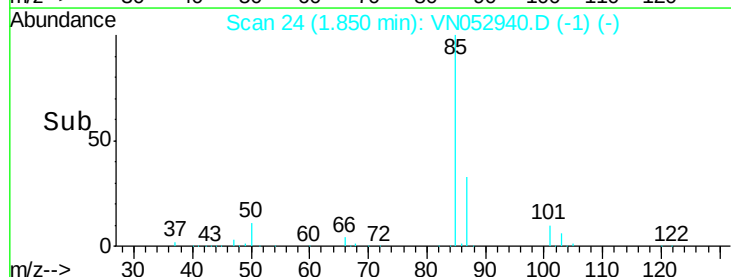
1.85

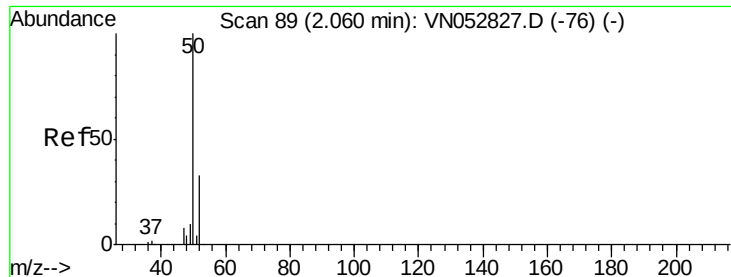
1.80

1.90

1.95

Time-->





#3

Chloromethane

Concen: 46.448 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN052940.D

Acq: 17 Dec 2018 20:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 50 Resp: 621964

Ion Ratio Lower Upper

50 100

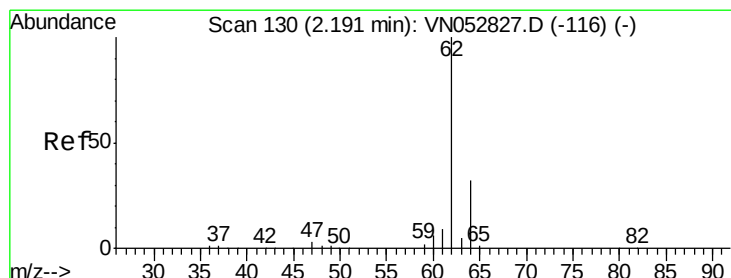
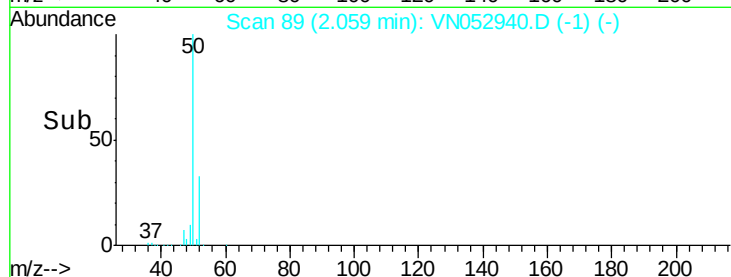
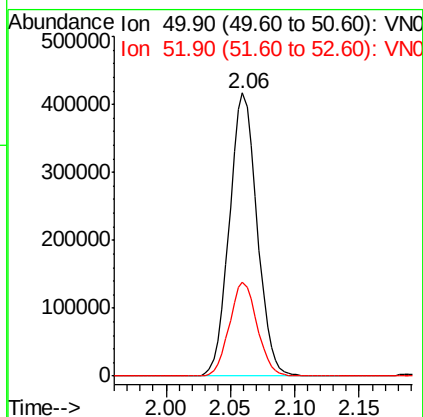
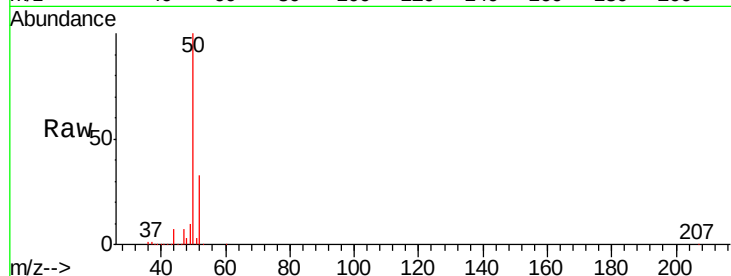
52 33.2 26.2 39.4

Manual Integrations

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12/18/2018 1:33:37 PM



#4

Vinyl Chloride

Concen: 47.067 ug/l

RT: 2.19 min Scan# 130

Delta R.T. -0.00 min

Lab File: VN052940.D

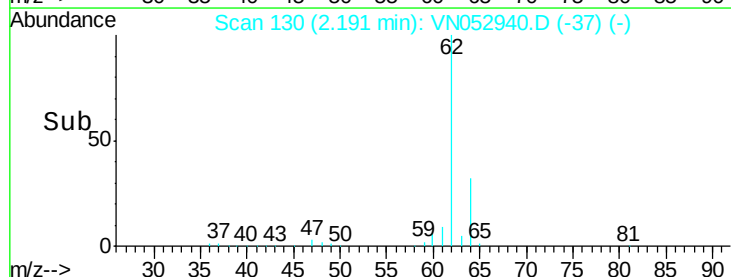
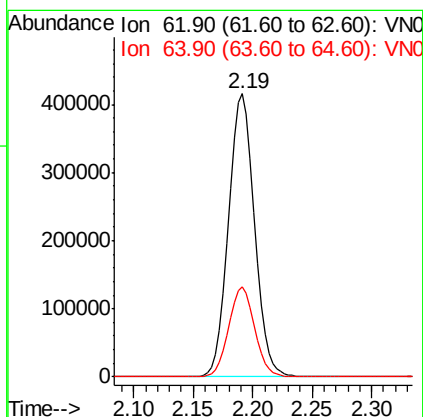
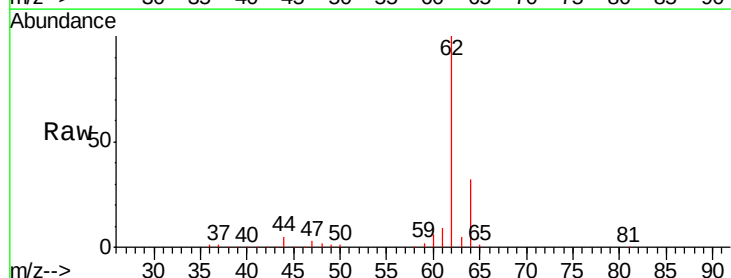
Acq: 17 Dec 2018 20:58

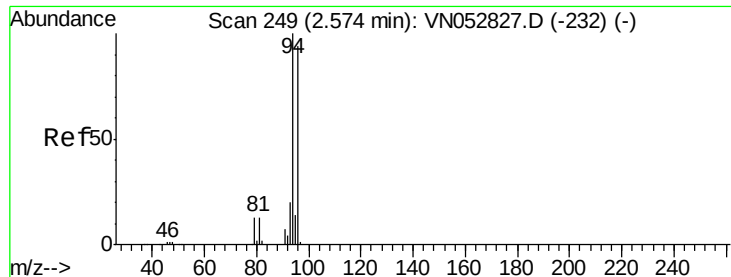
Tgt Ion: 62 Resp: 630537

Ion Ratio Lower Upper

62 100

64 31.6 25.5 38.3





#5

Bromomethane

Concen: 49.153 ug/l

RT: 2.57 min Scan# 249

Delta R.T. -0.00 min

Lab File: VN052940.D

Acq: 17 Dec 2018 20:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 94 Resp: 406141

Ion Ratio Lower Upper

94 100

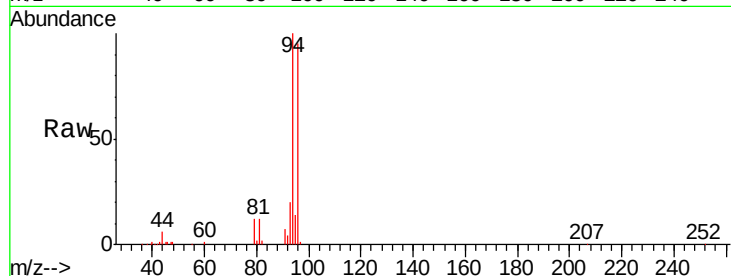
96 94.7 75.0 112.4

Manual Integrations

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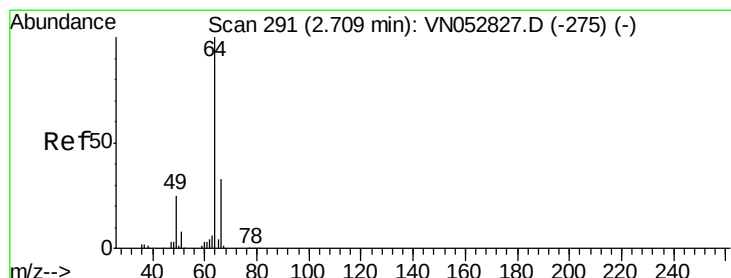
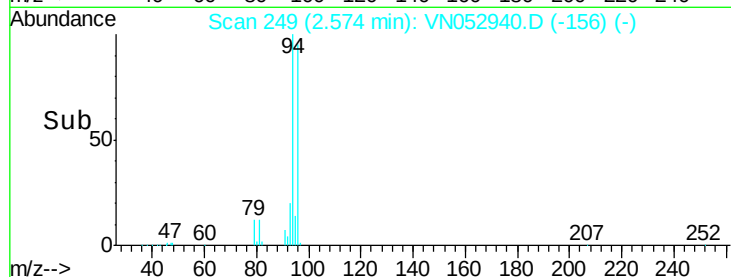
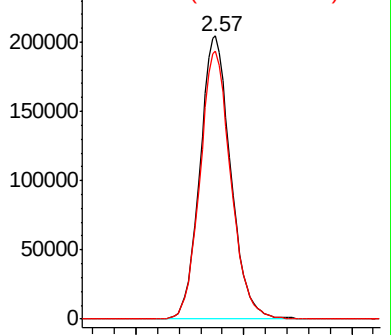
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 47.346 ug/l

RT: 2.71 min Scan# 291

Delta R.T. -0.00 min

Lab File: VN052940.D

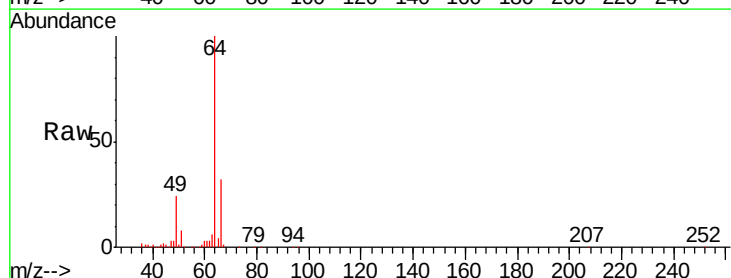
Acq: 17 Dec 2018 20:58

Tgt Ion: 64 Resp: 374914

Ion Ratio Lower Upper

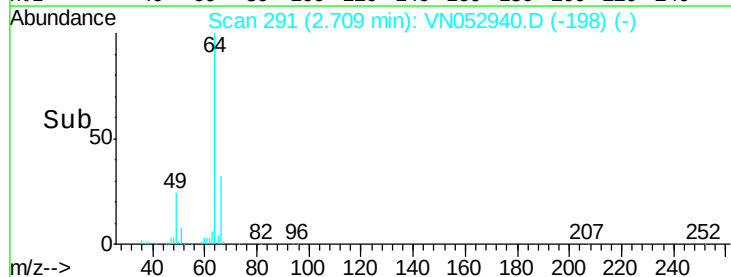
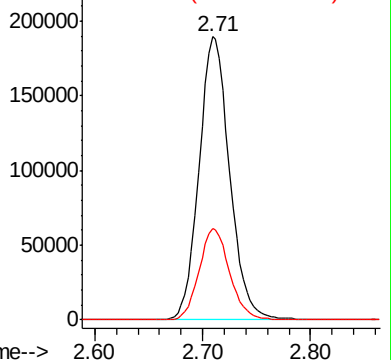
64 100

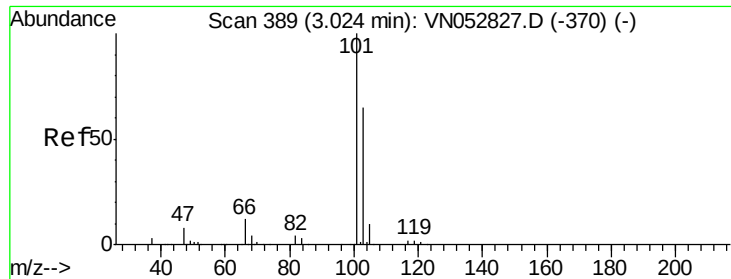
66 32.2 26.2 39.2



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

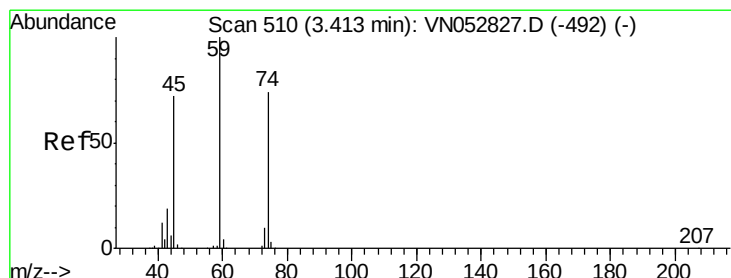
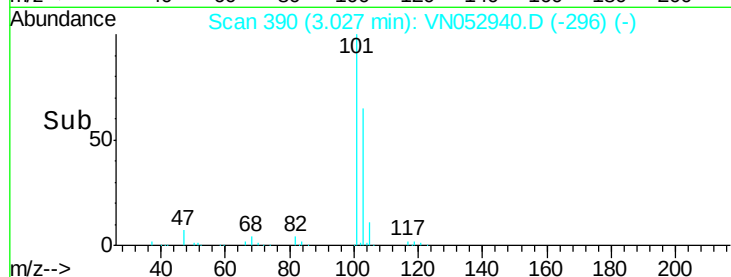
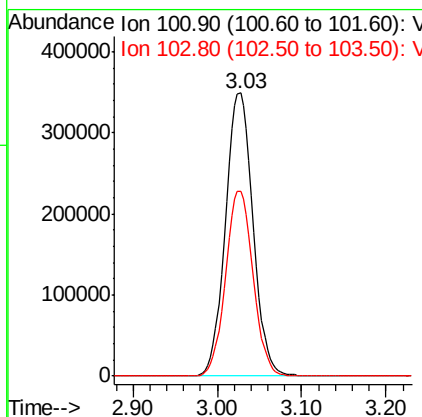
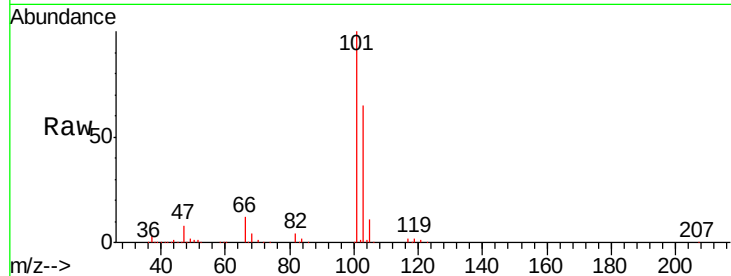
Trichlorofluoromethane
 Concen: 47.828 ug/l
 RT: 3.03 min Scan# 390
 Delta R.T. 0.00 min
 Lab File: VN052940.D
 Acq: 17 Dec 2018 20:58

Instrument :
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 ClientSampleId :
 VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
101	100		
103	65.4	51.8	77.6

Manual Integrations
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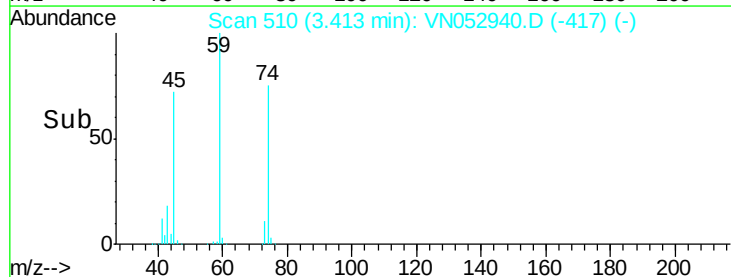
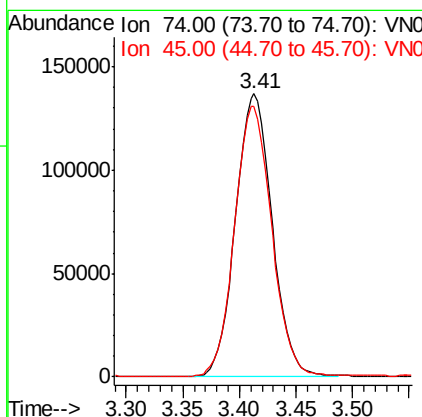
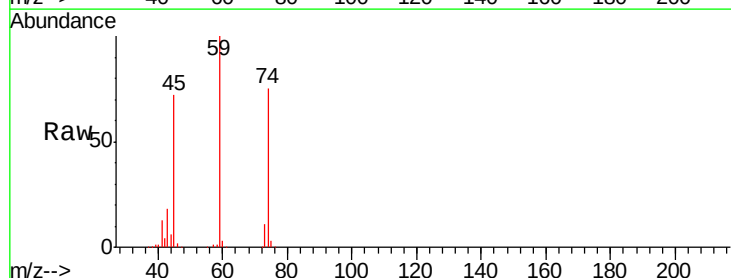
MMDadoda
 12/18/2018 1:33:37 PM

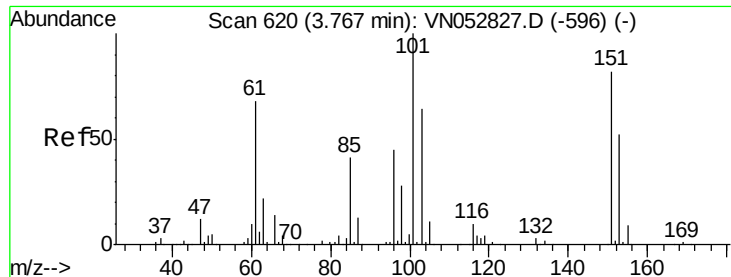


#8

Diethyl Ether
 Concen: 51.051 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. -0.00 min
 Lab File: VN052940.D
 Acq: 17 Dec 2018 20:58

Tgt Ion	Ratio	Lower	Upper
74	100		
45	96.5	49.4	148.0





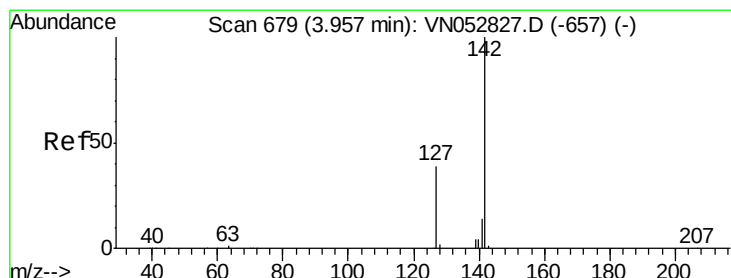
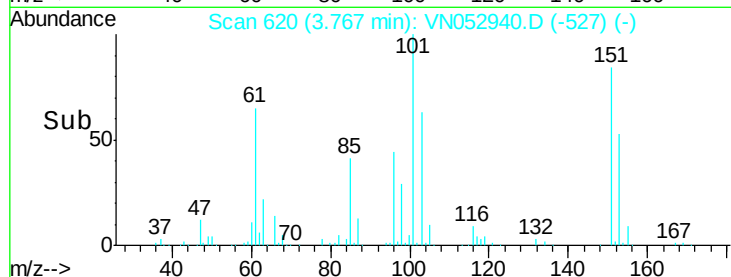
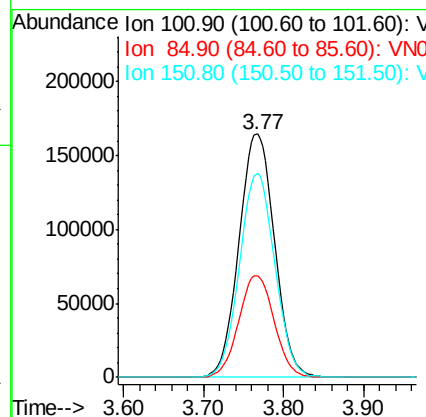
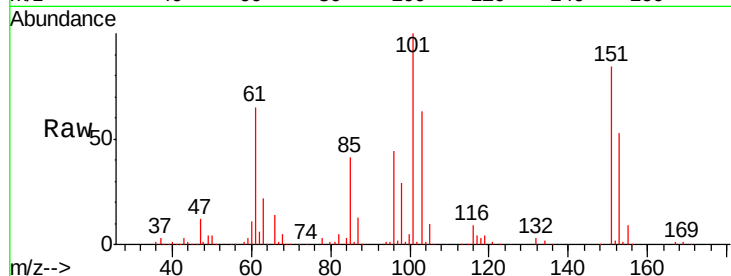
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 48.199 ug/l
 RT: 3.77 min Scan# 620
 Delta R.T. -0.00 min
 Lab File: VN052940.D
 Acq: 17 Dec 2018 20:58

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion	Ratio	Resp	Lower	Upper
101	100	496138		
85	41.6	33.6	50.4	
151	83.5	65.5	98.3	

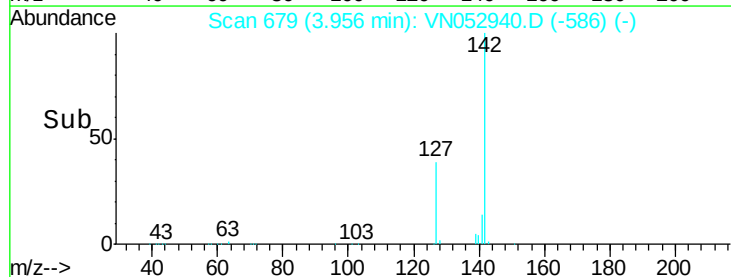
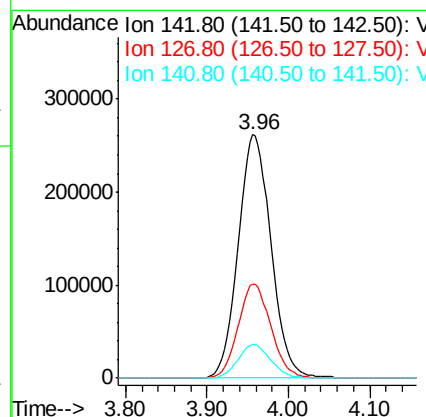
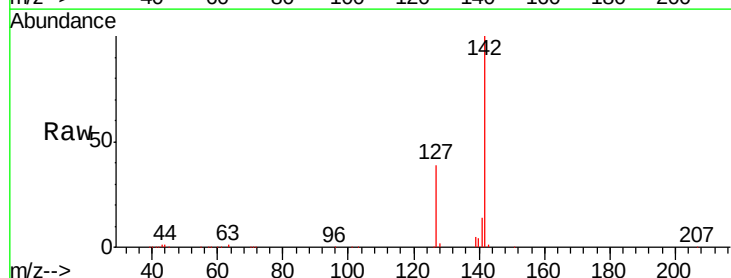
Manual Integrations
 APPROVED

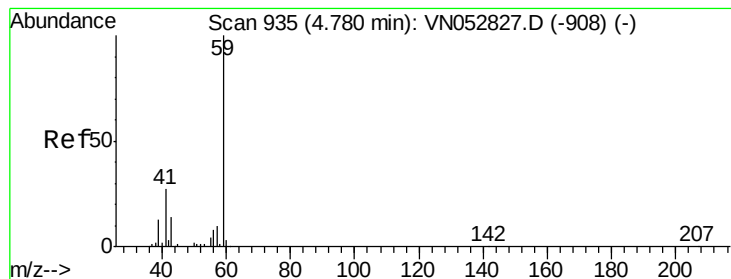
MMDadoda
 12/18/2018 1:33:37 PM



#10
 Methyl Iodide
 Concen: 50.702 ug/l
 RT: 3.96 min Scan# 679
 Delta R.T. -0.00 min
 Lab File: VN052940.D
 Acq: 17 Dec 2018 20:58

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	730906		
127	38.6	31.0	46.6	
141	13.9	11.2	16.8	





#11

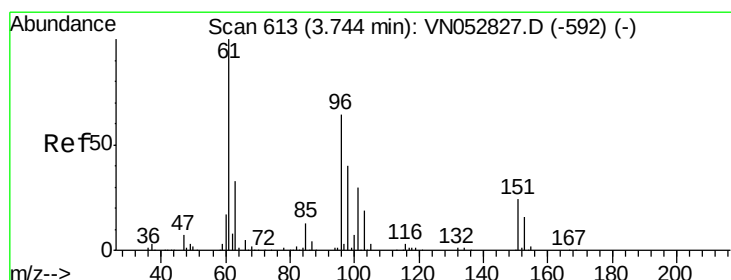
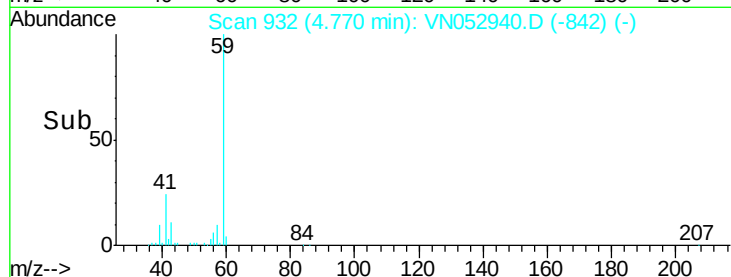
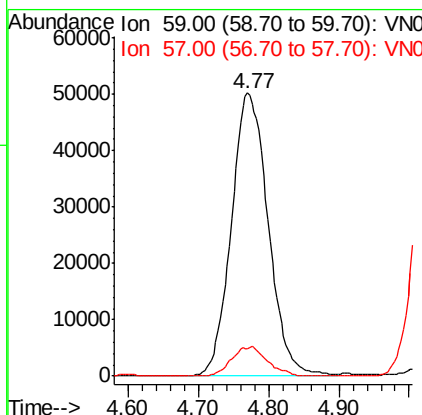
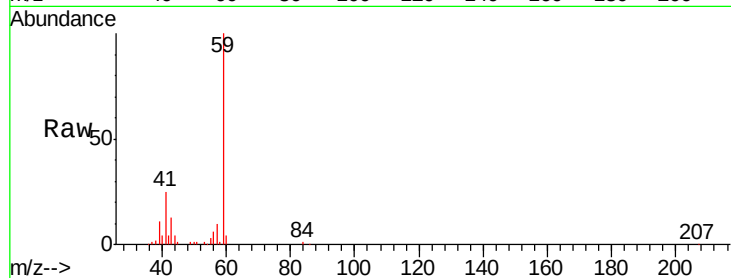
Tert butyl alcohol
Concen: 284.222 ug/l
RT: 4.77 min Scan# 932
Delta R.T. -0.01 min
Lab File: VN052940.D
Acq: 17 Dec 2018 20:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 59 Resp: 183017
Ion Ratio Lower Upper
59 100
57 10.1 7.7 11.5

Manual Integrations
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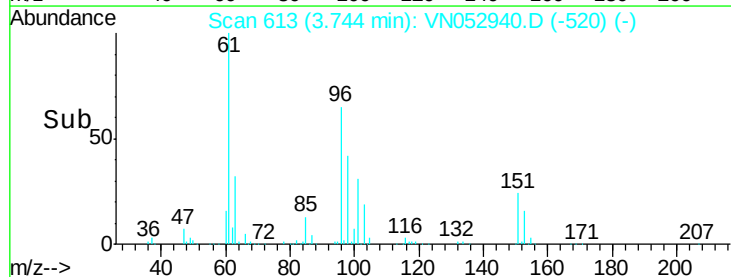
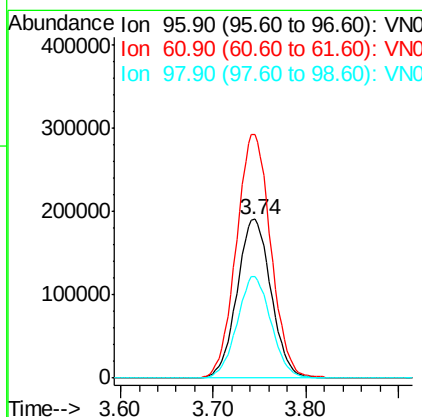
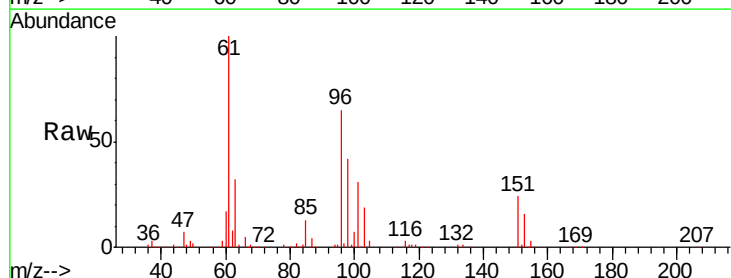
MMDadoda
12/18/2018 1:33:37 PM

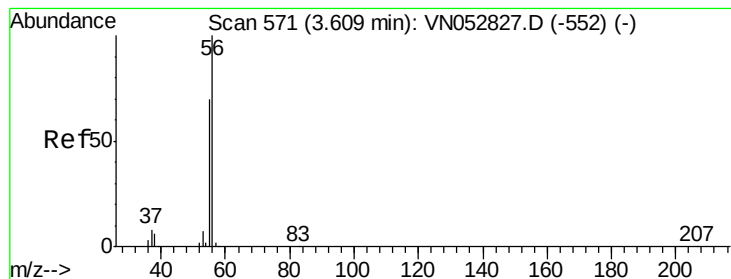


#12

1,1-Dichloroethene
Concen: 48.786 ug/l
RT: 3.74 min Scan# 613
Delta R.T. -0.00 min
Lab File: VN052940.D
Acq: 17 Dec 2018 20:58

Tgt Ion: 96 Resp: 486137
Ion Ratio Lower Upper
96 100
61 153.1 125.6 188.4
98 63.9 50.6 75.8





#13

Acrolein

Concen: 160.979 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN052940.D

Acq: 17 Dec 2018 20:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 56 Resp: 97595

Ion Ratio Lower Upper

56 100

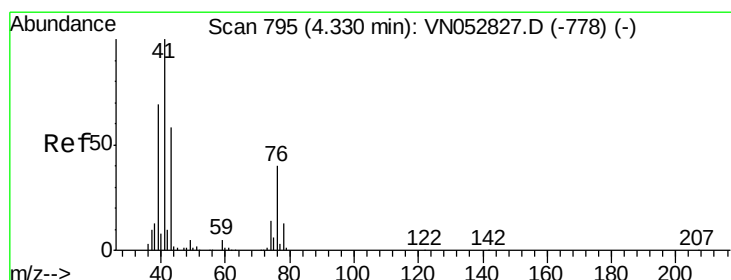
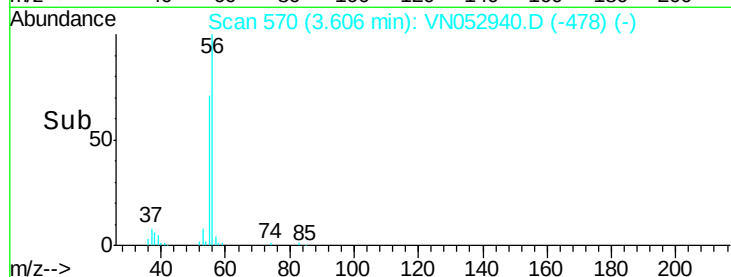
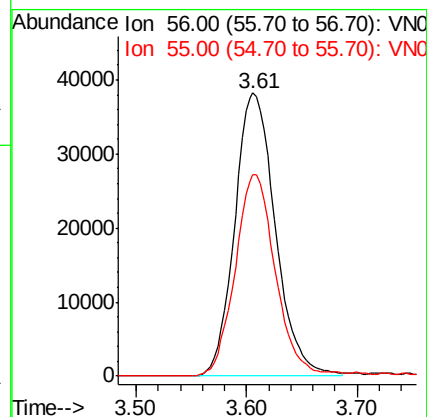
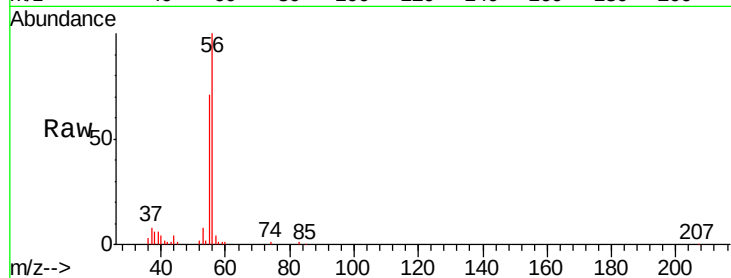
55 70.6 56.6 85.0

Manual Integrations

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MMDadoda

12/18/2018 1:33:37 PM



#14

Allyl chloride

Concen: 46.880 ug/l

RT: 4.33 min Scan# 795

Delta R.T. -0.00 min

Lab File: VN052940.D

Acq: 17 Dec 2018 20:58

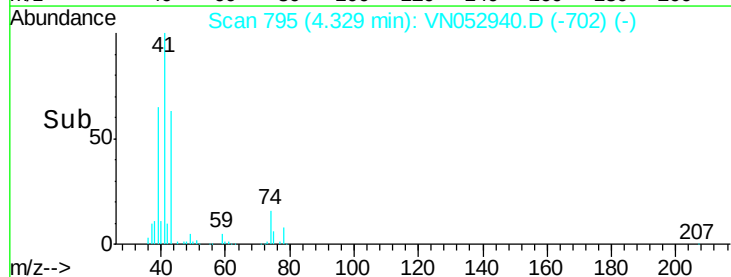
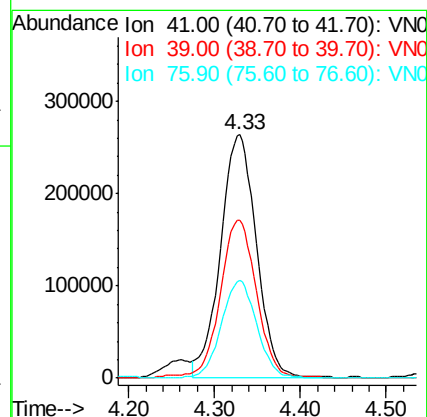
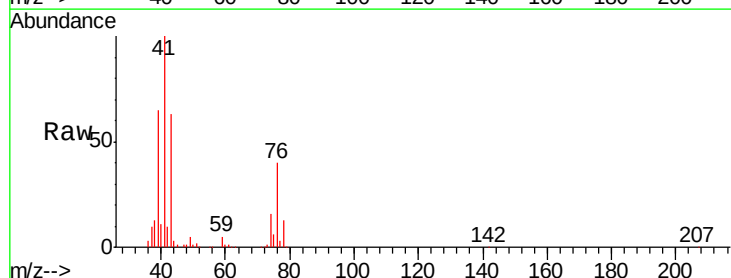
Tgt Ion: 41 Resp: 763006

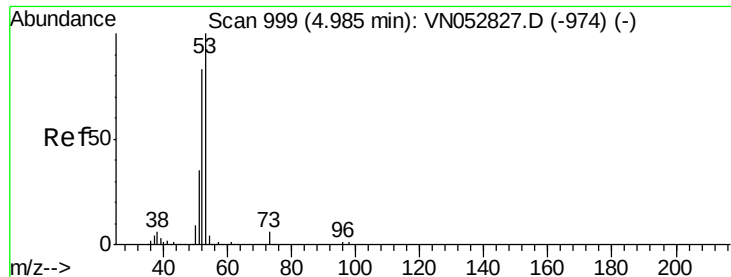
Ion Ratio Lower Upper

41 100

39 66.6 54.1 81.1

76 39.2 30.3 45.5





#15

Acrylonitrile

Concen: 261.554 ug/l

RT: 4.99 min Scan# 999

Delta R.T. -0.00 min

Lab File: VN052940.D

Acq: 17 Dec 2018 20:58

Instrument :

MSVOA_N

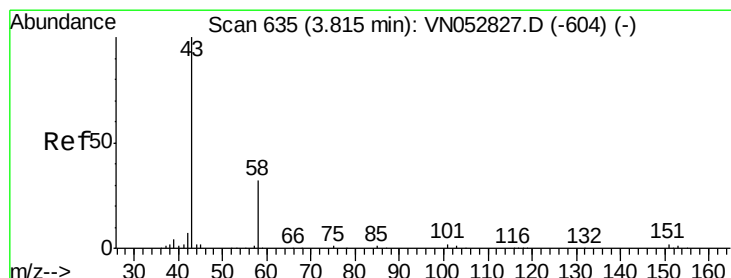
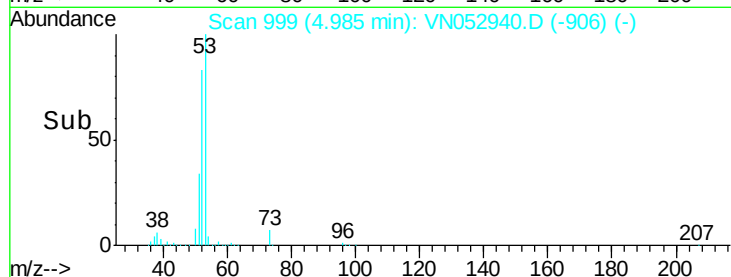
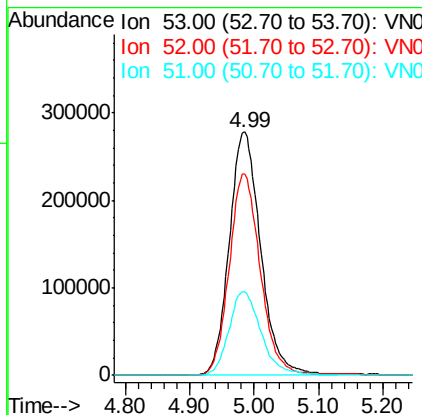
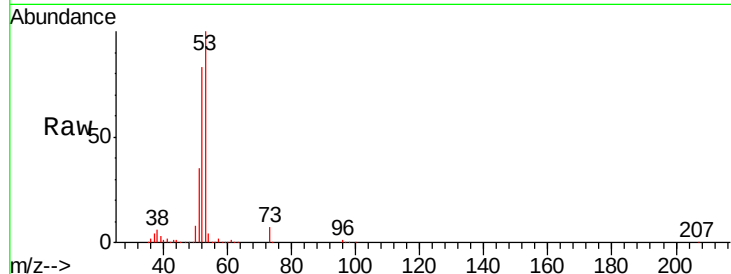
ClientSampleId :

VSTDCCC050EC

Tgt Ion:	53	Resp:	944855
Ion Ratio	Lower	Upper	
53	100		
52	81.9	65.1	97.7
51	35.3	28.1	42.1

Manual Integrations
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#16

Acetone

Concen: 232.894 ug/l

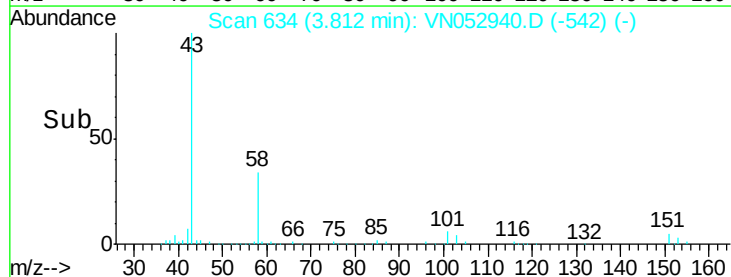
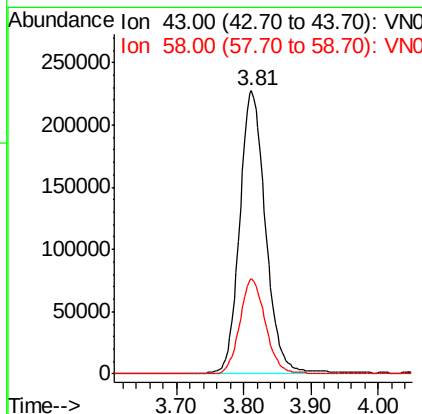
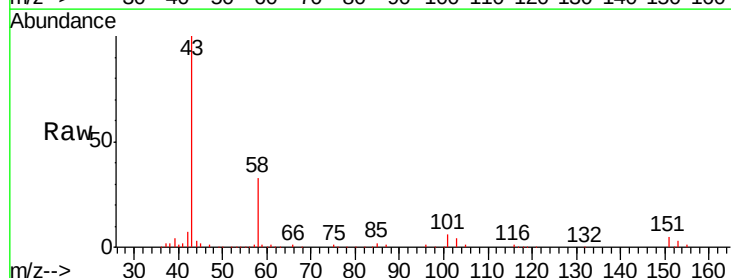
RT: 3.81 min Scan# 634

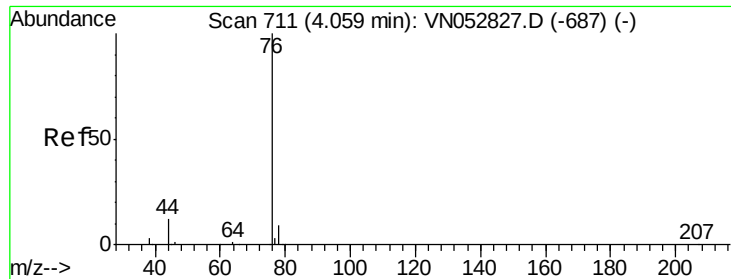
Delta R.T. -0.00 min

Lab File: VN052940.D

Acq: 17 Dec 2018 20:58

Tgt Ion:	43	Resp:	602790
Ion Ratio	Lower	Upper	
43	100		
58	33.4	25.4	38.0





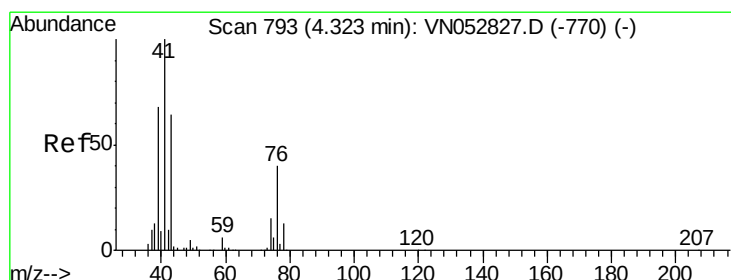
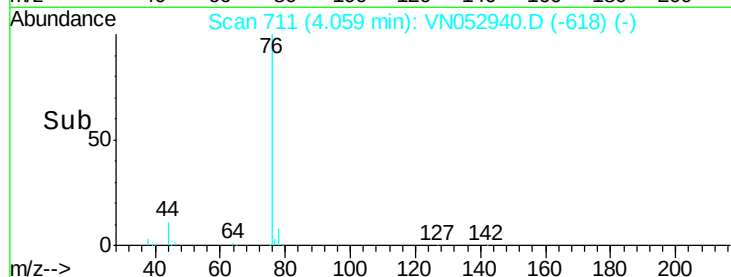
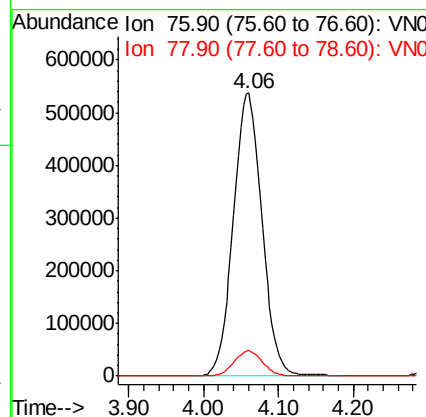
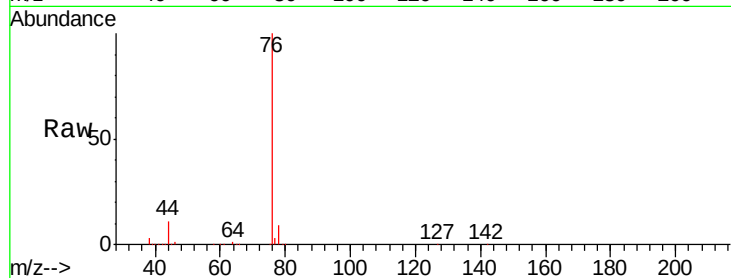
#17
Carbon Disulfide
Concen: 46.750 ug/l
RT: 4.06 min Scan# 711
Delta R.T. -0.00 min
Lab File: VN052940.D
Acq: 17 Dec 2018 20:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 1431086
Ion Ratio Lower Upper
76 100
78 9.1 7.1 10.7

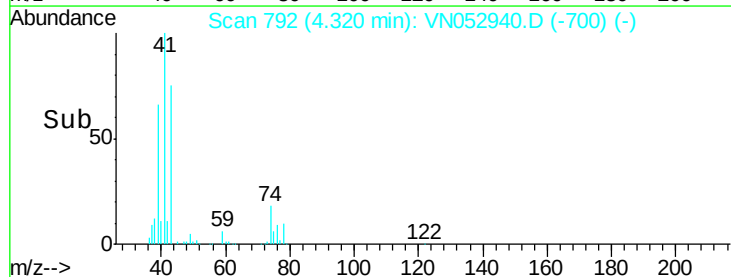
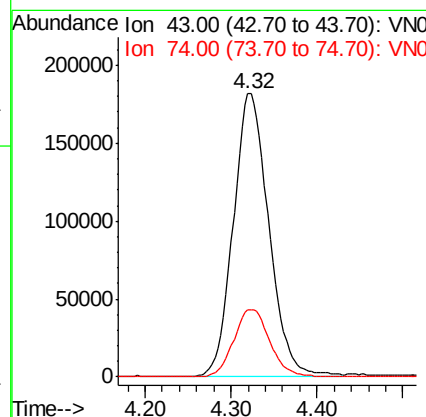
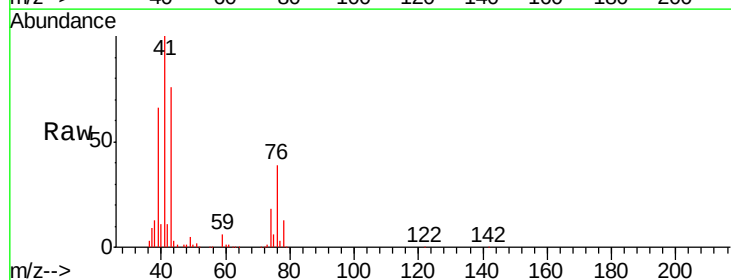
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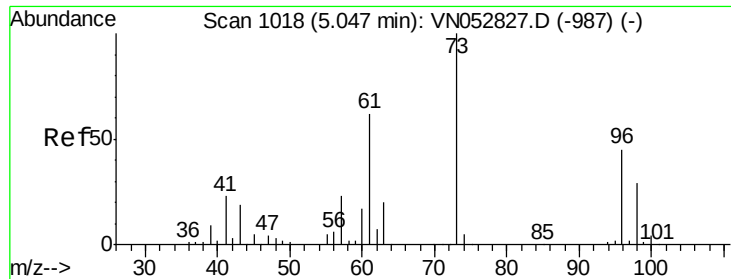
MMDadoda
12/18/2018 1:33:37 PM



#18
Methyl Acetate
Concen: 54.547 ug/l
RT: 4.32 min Scan# 792
Delta R.T. -0.00 min
Lab File: VN052940.D
Acq: 17 Dec 2018 20:58

Tgt Ion: 43 Resp: 518138
Ion Ratio Lower Upper
43 100
74 24.5 19.2 28.8





#19

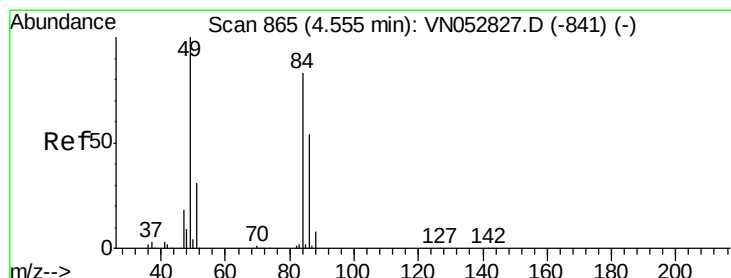
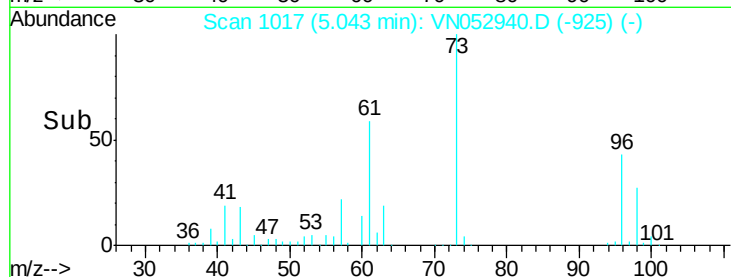
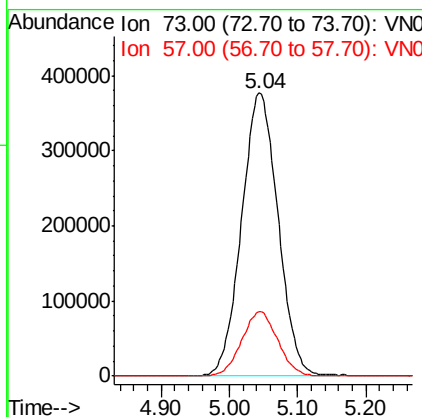
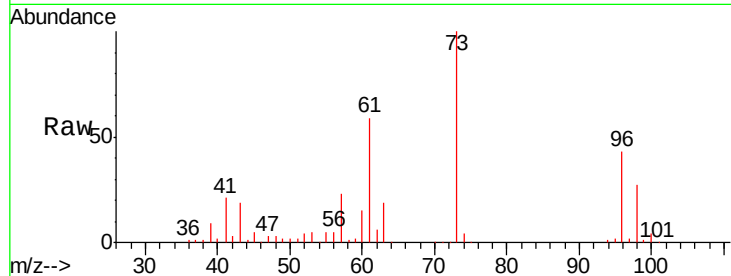
Methyl tert-butyl Ether
Concen: 51.721 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. -0.00 min
Lab File: VN052940.D
Acq: 17 Dec 2018 20:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 73 Resp: 1399157
Ion Ratio Lower Upper
73 100
57 22.8 18.4 27.6

Manual Integrations
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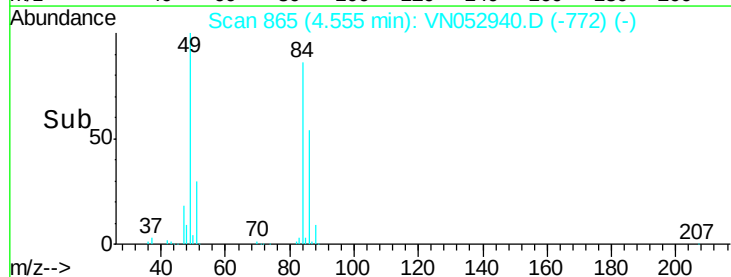
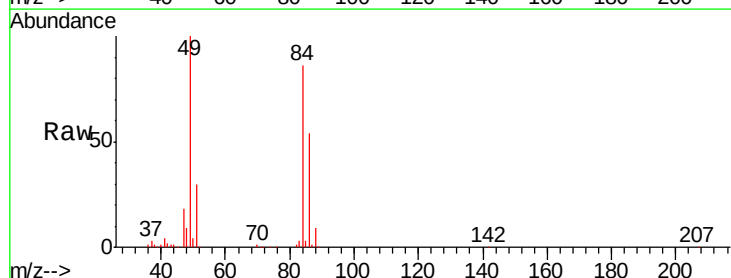
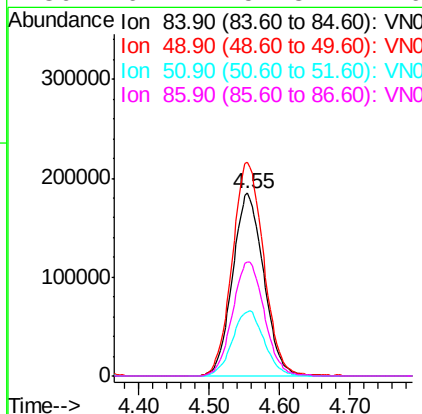
MMDadoda
12/18/2018 1:33:37 PM

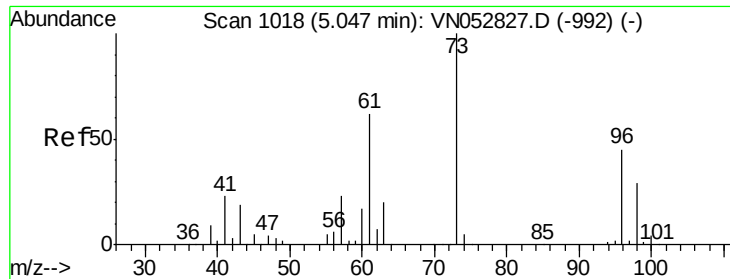


#20

Methylene Chloride
Concen: 49.078 ug/l
RT: 4.55 min Scan# 865
Delta R.T. -0.00 min
Lab File: VN052940.D
Acq: 17 Dec 2018 20:58

Tgt Ion: 84 Resp: 571649
Ion Ratio Lower Upper
84 100
49 116.9 96.8 145.2
51 35.3 29.9 44.9
86 62.7 51.8 77.6





#21

trans-1,2-Dichloroethene

Concen: 47.347 ug/l

RT: 5.05 min Scan# 1018

Delta R.T. -0.00 min

Lab File: VN052940.D

Acq: 17 Dec 2018 20:58

Instrument :

MSVOA_N

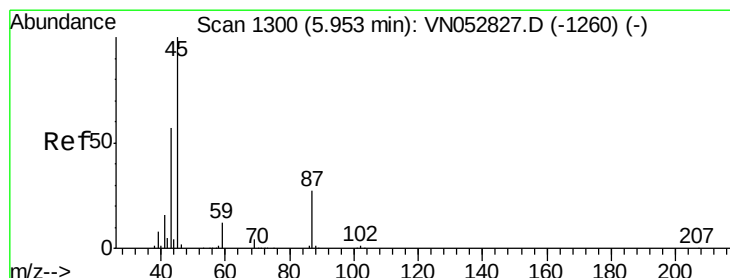
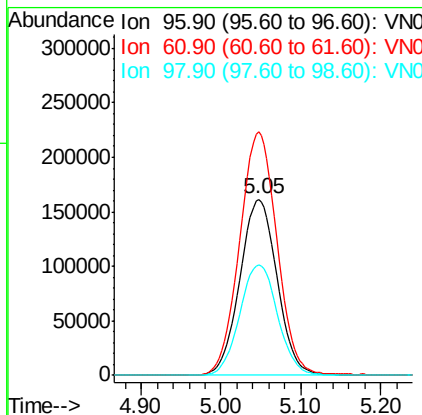
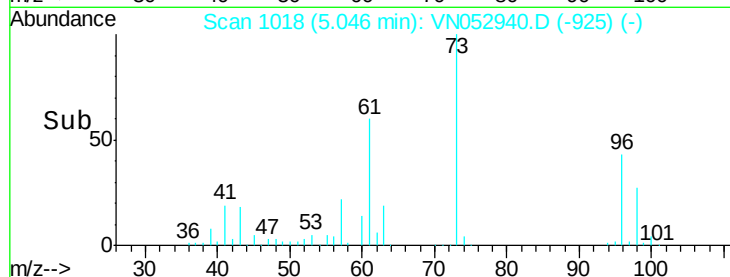
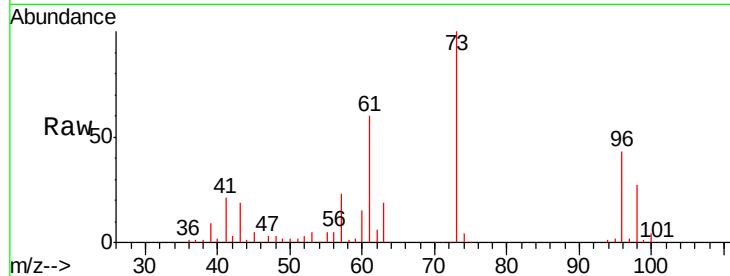
ClientSampleId :

VSTDCCC050EC

Tgt Ion:	96	Resp:	511143
Ion	Ratio	Lower	Upper
96	100		
61	138.4	110.8	166.2
98	63.1	51.4	77.2

Manual Integrations
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MMDadoda
12/18/2018 1:33:37 PM



#22

Diisopropyl ether

Concen: 48.861 ug/l

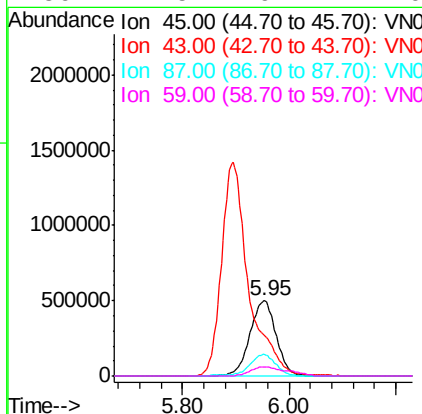
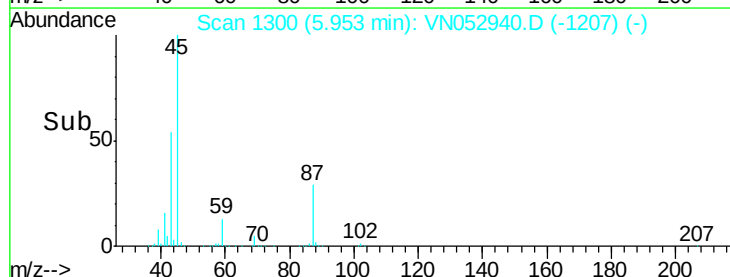
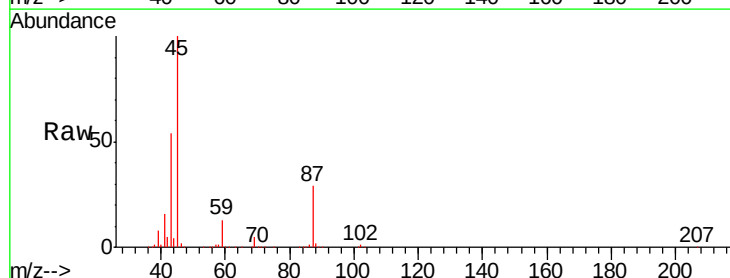
RT: 5.95 min Scan# 1300

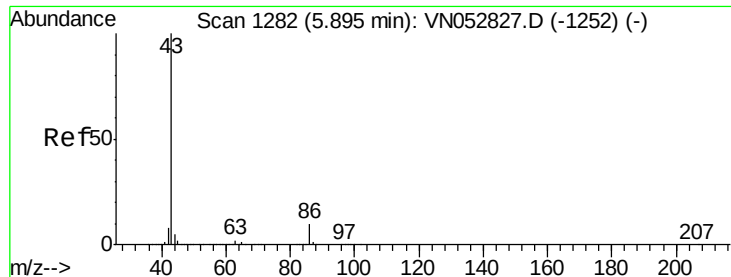
Delta R.T. -0.00 min

Lab File: VN052940.D

Acq: 17 Dec 2018 20:58

Tgt Ion:	45	Resp:	1696581
Ion	Ratio	Lower	Upper
45	100		
43	54.0	45.5	68.3
87	28.6	22.0	33.0
59	12.5	9.4	14.0





#23

Vinyl Acetate

Concen: 242.352 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. -0.00 min

Lab File: VN052940.D

Acq: 17 Dec 2018 20:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 43 Resp: 5007268

Ion Ratio Lower Upper

43 100

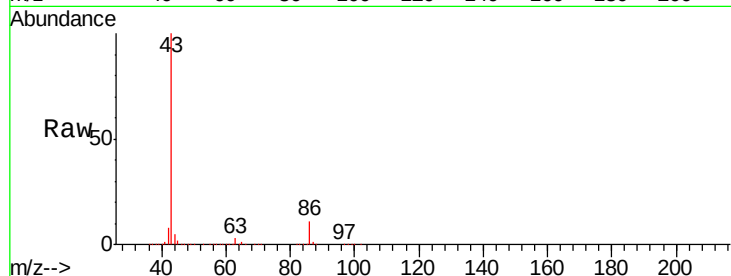
86 10.5 8.1 12.1

Manual Integrations

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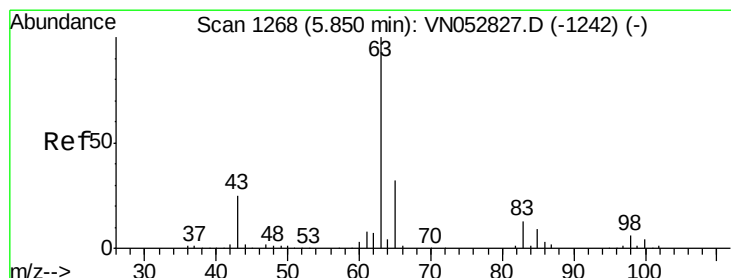
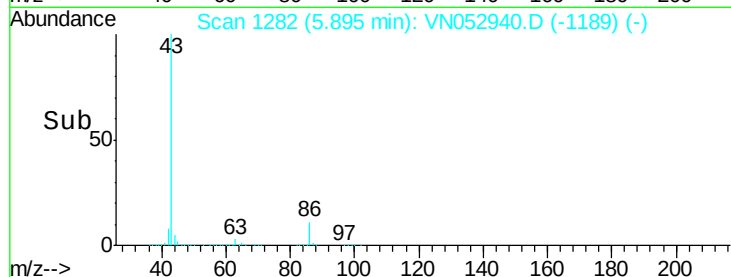
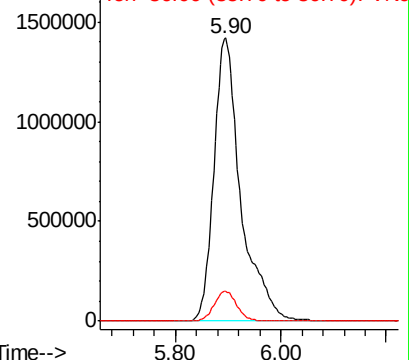
MMDadoda

12/18/2018 1:33:37 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 48.805 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. -0.00 min

Lab File: VN052940.D

Acq: 17 Dec 2018 20:58

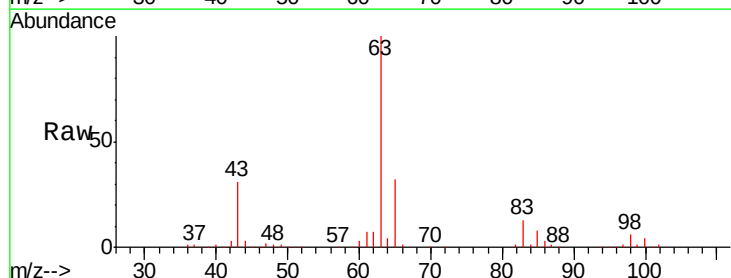
Tgt Ion: 63 Resp: 977243

Ion Ratio Lower Upper

63 100

98 6.3 3.1 9.4

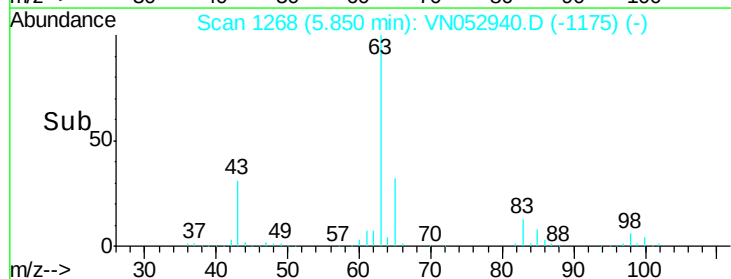
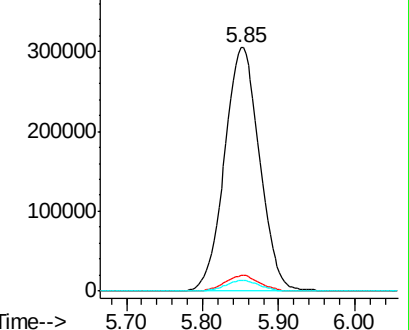
100 4.3 2.0 5.8

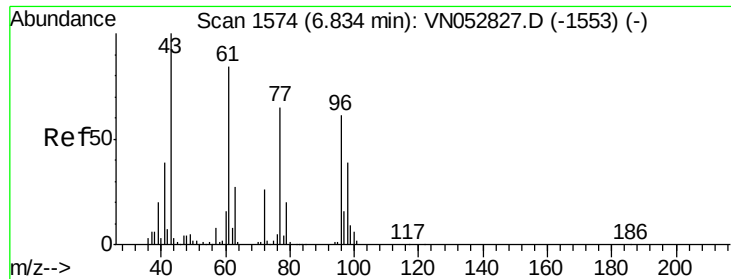


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





#25

2-Butanone

Concen: 247.336 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VN052940.D

Acq: 17 Dec 2018 20:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 43 Resp: 993319

Ion Ratio Lower Upper

43 100

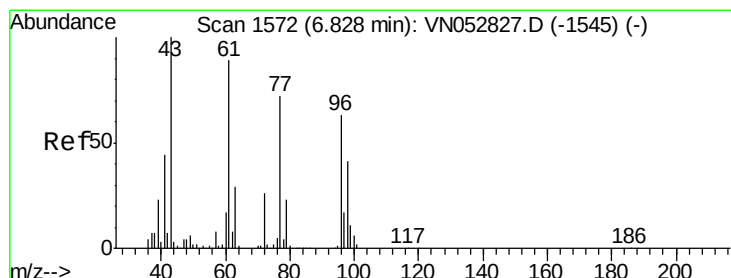
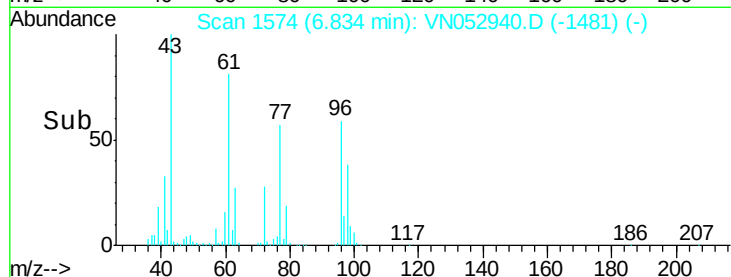
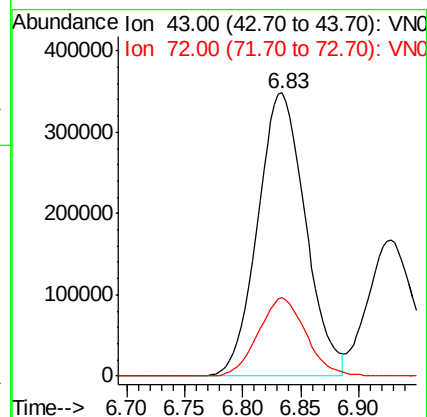
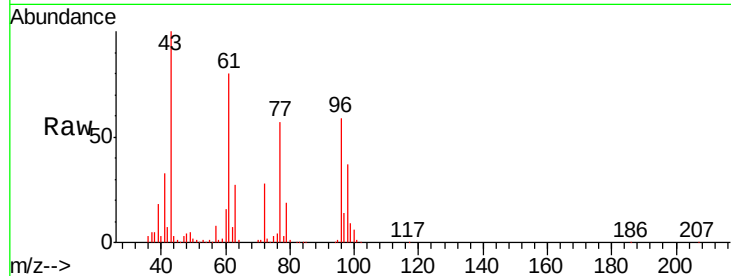
72 27.8 21.0 31.6

Manual Integrations

APPROVED

MMDadoda

12/18/2018 1:33:37 PM



#26

2,2-Dichloropropane

Concen: 45.874 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. -0.00 min

Lab File: VN052940.D

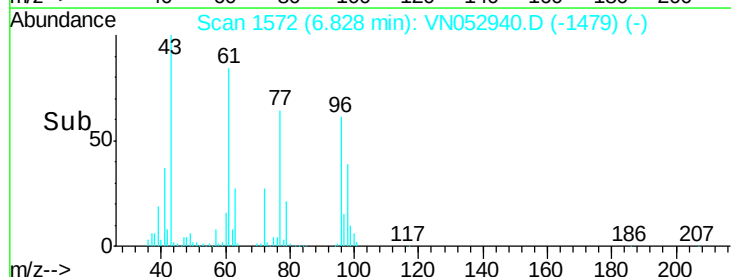
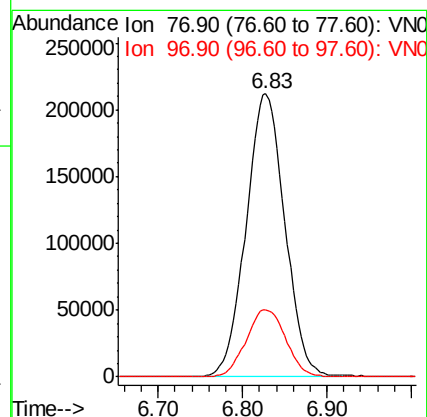
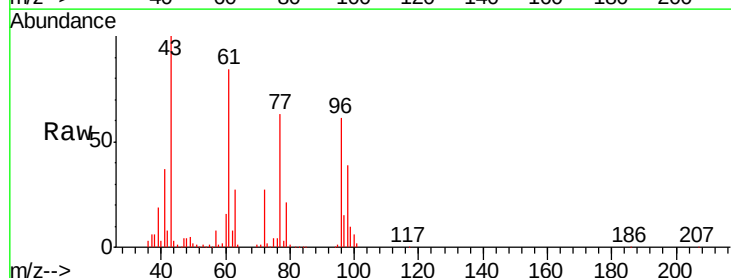
Acq: 17 Dec 2018 20:58

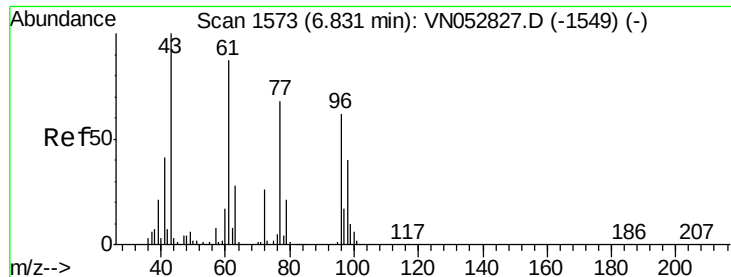
Tgt Ion: 77 Resp: 676431

Ion Ratio Lower Upper

77 100

97 24.4 11.9 35.9





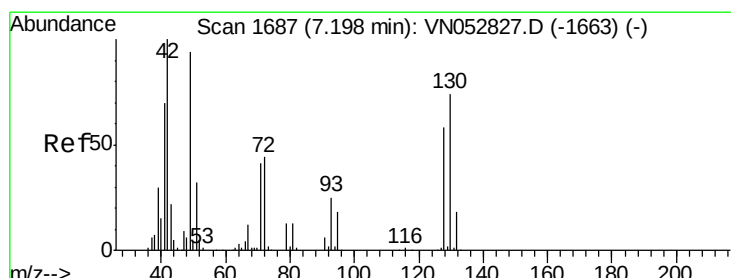
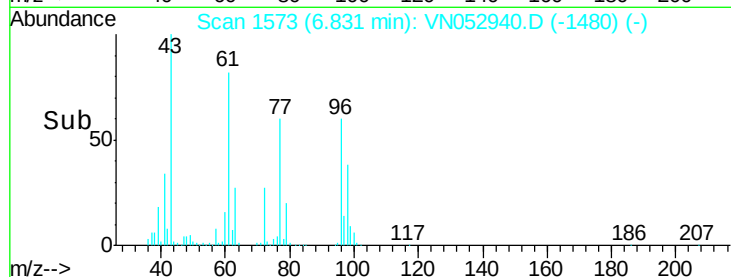
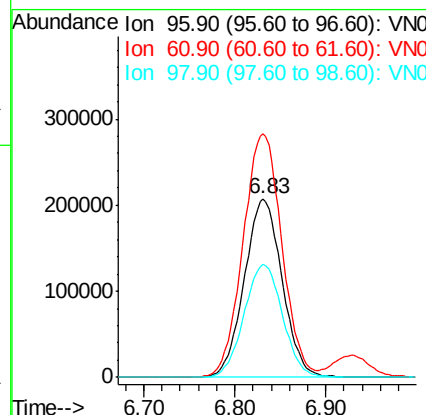
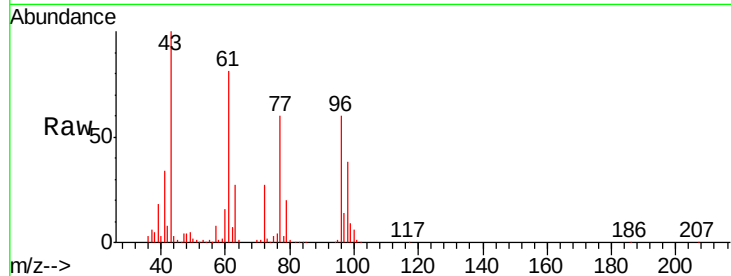
#27
 cis-1,2-Dichloroethene
 Concen: 48.831 ug/l
 RT: 6.83 min Scan# 1573
 Delta R.T. -0.00 min
 Lab File: VN052940.D
 Acq: 17 Dec 2018 20:58

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	598318		
61	140.0	0.0	284.2	
98	64.5	0.0	129.2	

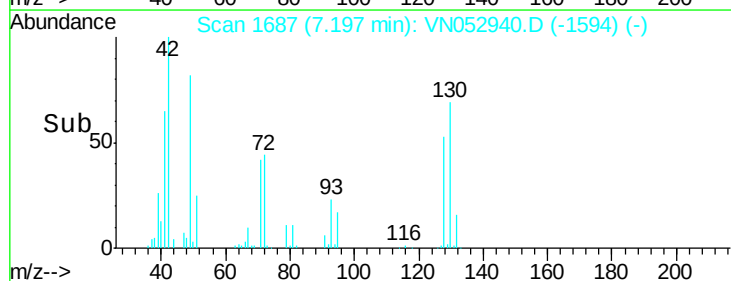
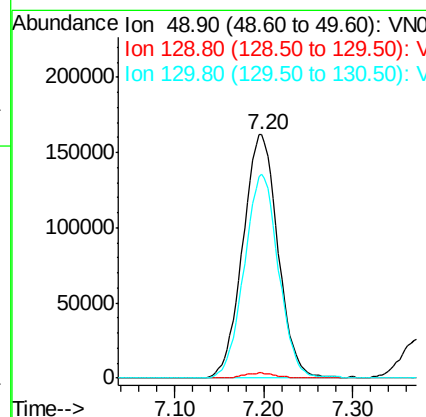
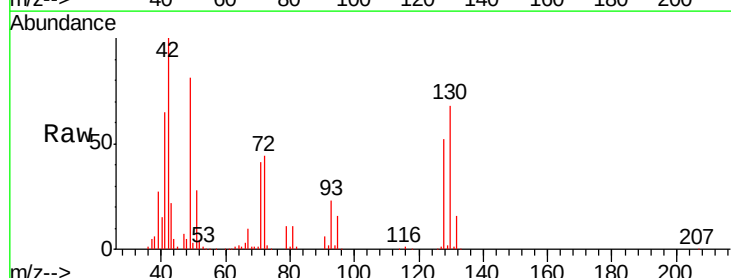
Manual Integrations
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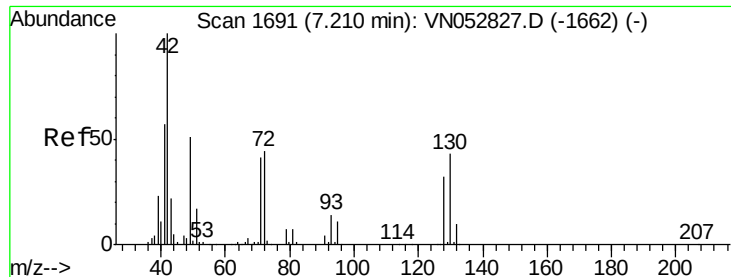
MMDadoda
 12/18/2018 1:33:37 PM



#28
 Bromochloromethane
 Concen: 49.297 ug/l
 RT: 7.20 min Scan# 1687
 Delta R.T. -0.00 min
 Lab File: VN052940.D
 Acq: 17 Dec 2018 20:58

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	443245		
129	1.9	0.0	4.0	
130	82.0	63.3	94.9	





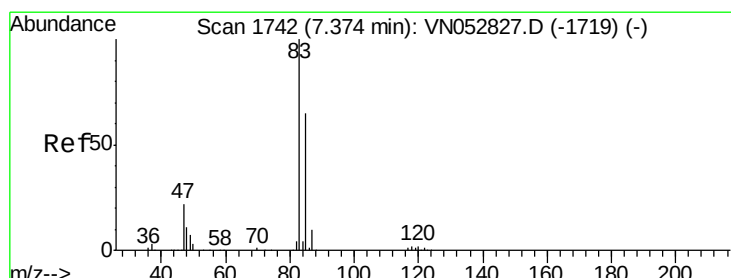
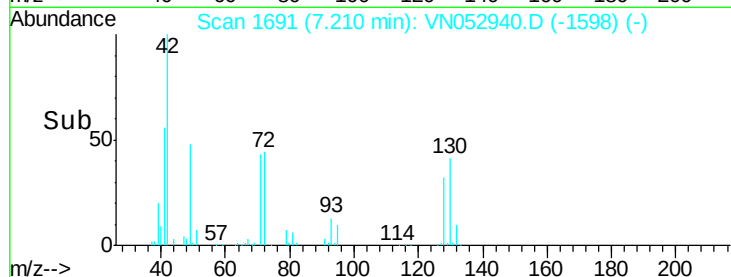
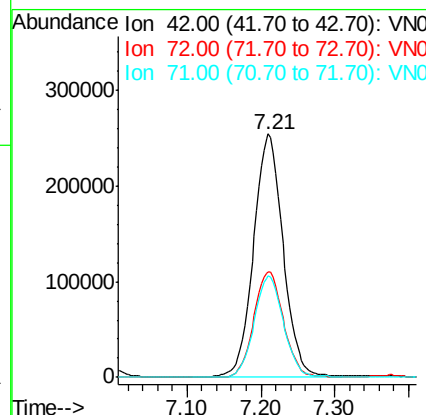
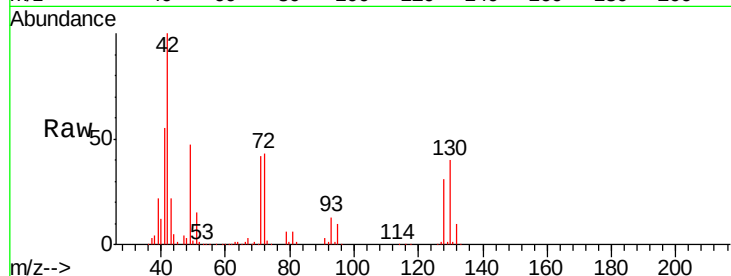
#29
Tetrahydrofuran
Concen: 258.047 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. -0.00 min
Lab File: VN052940.D
Acq: 17 Dec 2018 20:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
42	100		
72	43.8	34.7	52.1
71	41.3	32.3	48.5

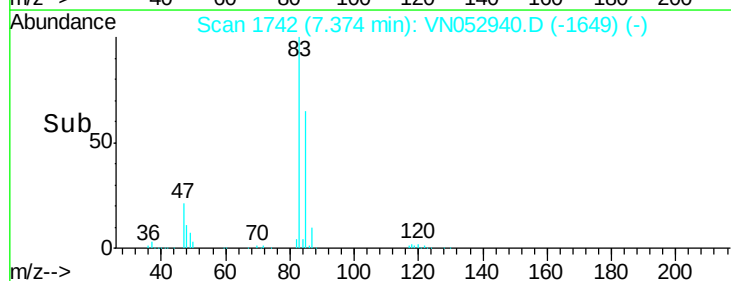
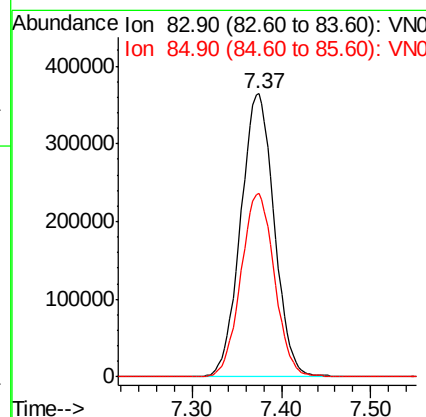
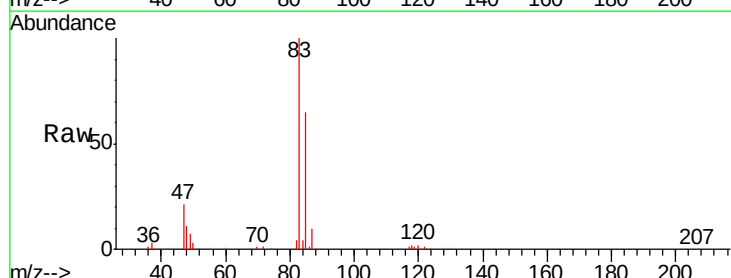
Manual Integrations
APPROVED

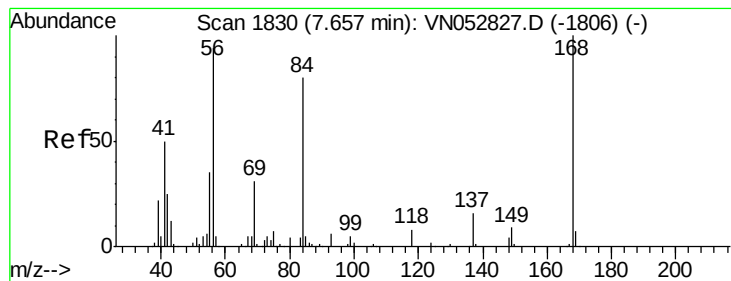
MMDadoda
12/18/2018 1:33:37 PM



#30
Chloroform
Concen: 48.801 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. -0.00 min
Lab File: VN052940.D
Acq: 17 Dec 2018 20:58

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.7	52.1	78.1





#31

Cyclohexane

Concen: 46.274 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. -0.00 min

Lab File: VN052940.D

Acq: 17 Dec 2018 20:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 56 Resp: 904520
Ion Ratio Lower Upper

56 100

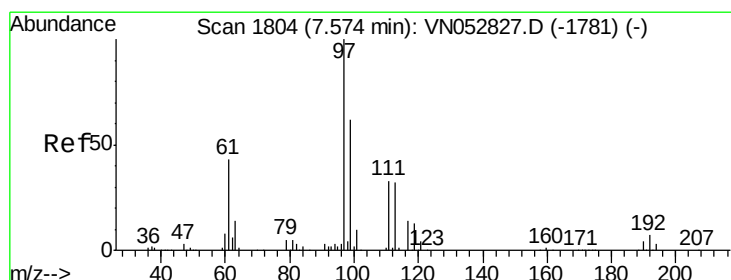
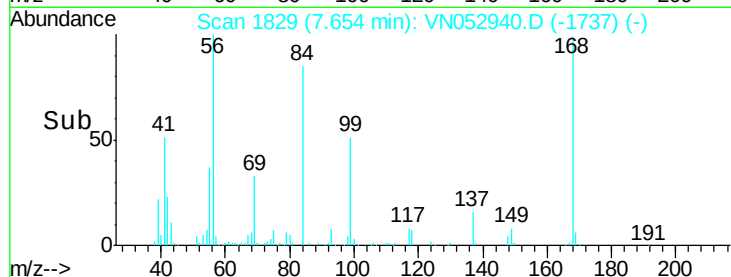
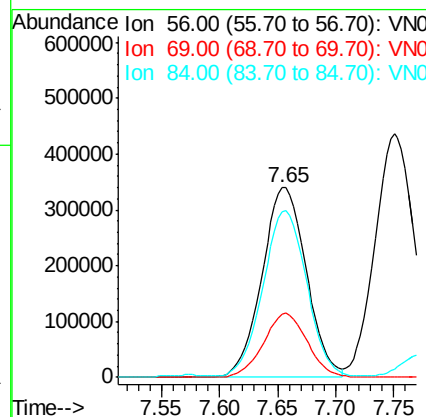
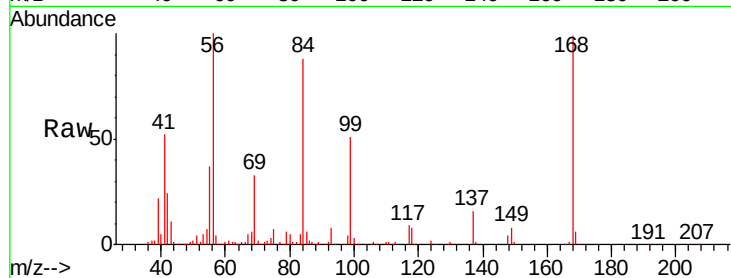
69 33.2 26.6 39.8

84 86.4 68.4 102.6

Manual Integrations
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MMDadoda

12/18/2018 1:33:37 PM



#32

1,1,1-Trichloroethane

Concen: 49.474 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. -0.00 min

Lab File: VN052940.D

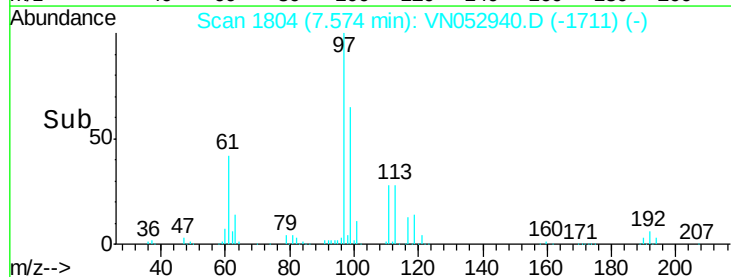
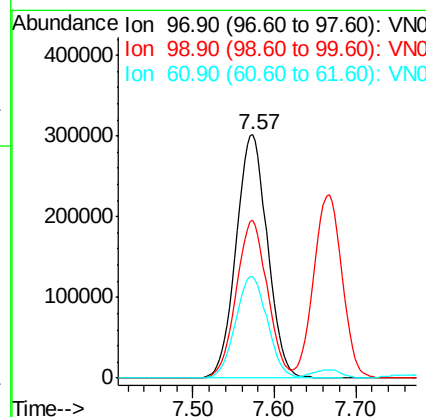
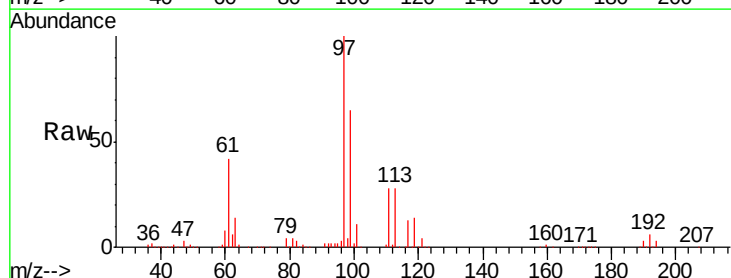
Acq: 17 Dec 2018 20:58

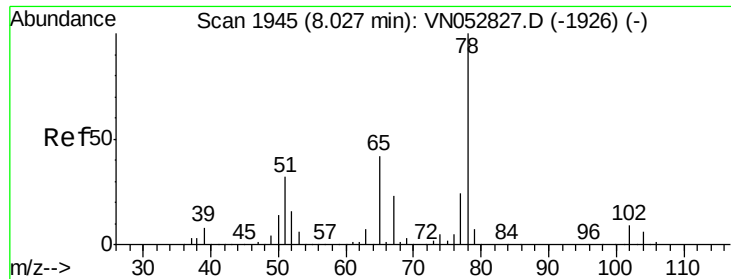
Tgt Ion: 97 Resp: 808256
Ion Ratio Lower Upper

97 100

99 64.3 51.1 76.7

61 42.2 35.0 52.6





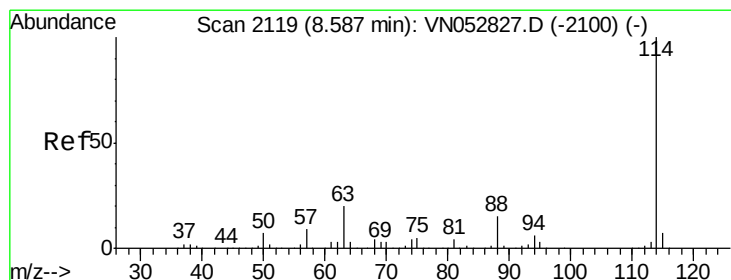
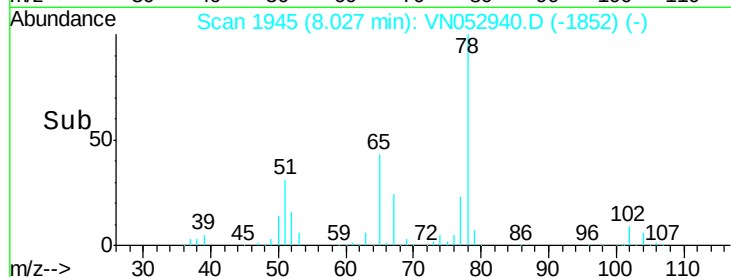
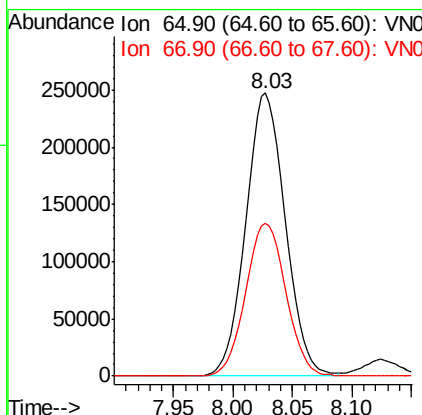
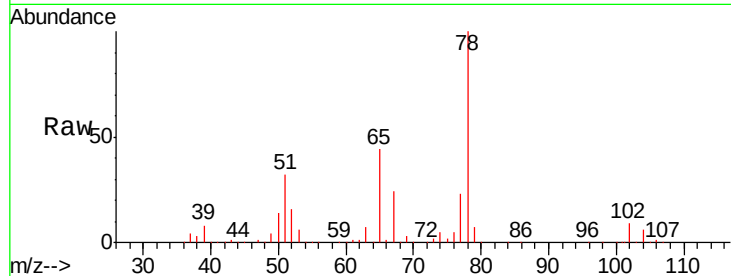
#33
 1,2-Dichloroethane-d4
 Concen: 49.474 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN052940.D
 Acq: 17 Dec 2018 20:58

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion: 65 Resp: 569198
 Ion Ratio Lower Upper
 65 100
 67 55.3 0.0 110.4

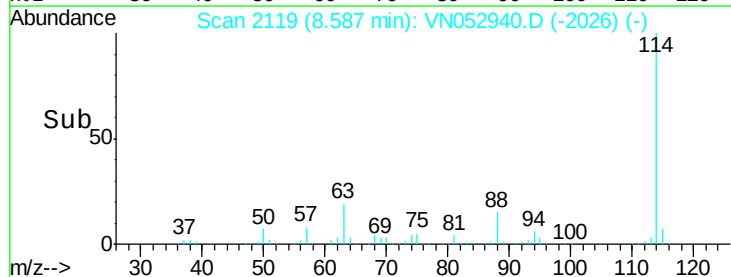
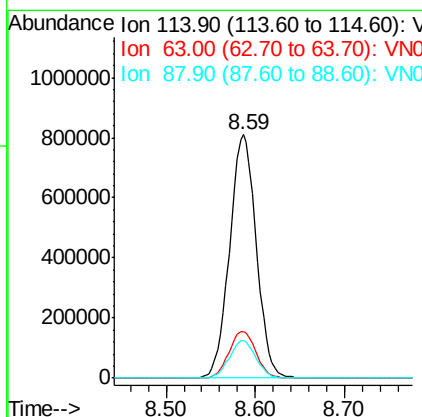
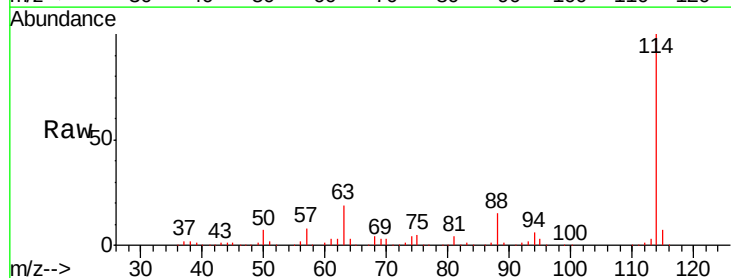
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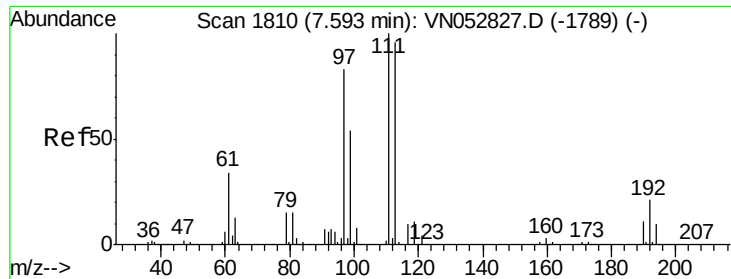
MMDadoda
 12/18/2018 1:33:37 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052940.D
 Acq: 17 Dec 2018 20:58

Tgt Ion: 114 Resp: 1672035
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 39.8
 88 15.4 0.0 31.0





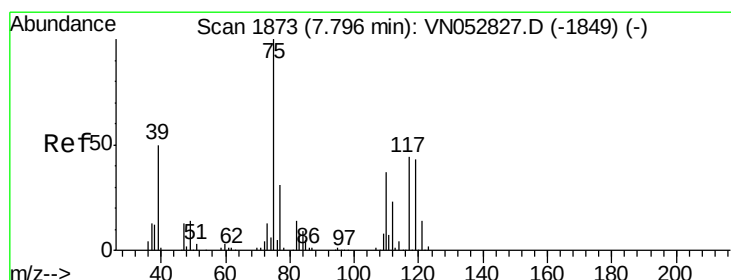
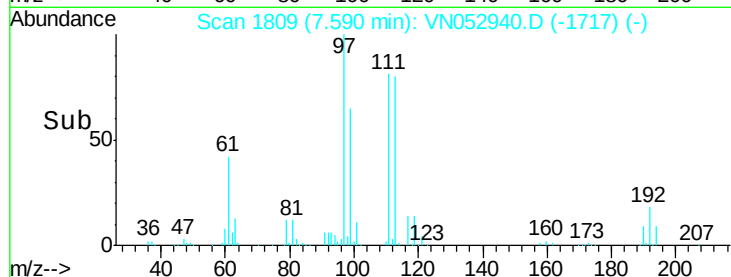
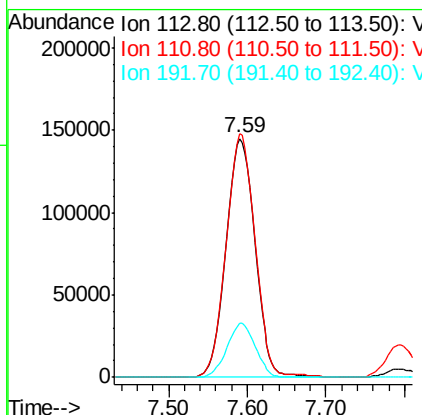
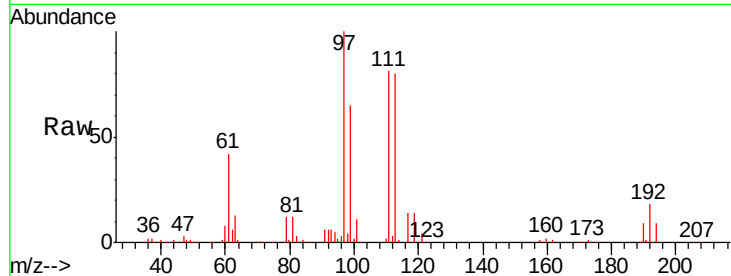
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. -0.00 min
Lab File: VN052940.D
Acq: 17 Dec 2018 20:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	370610		
111	101.5	83.0	124.4	
192	22.1	17.5	26.3	

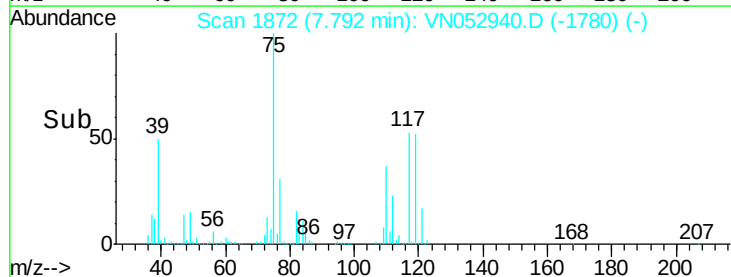
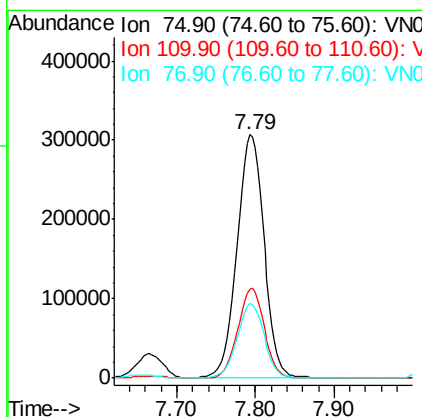
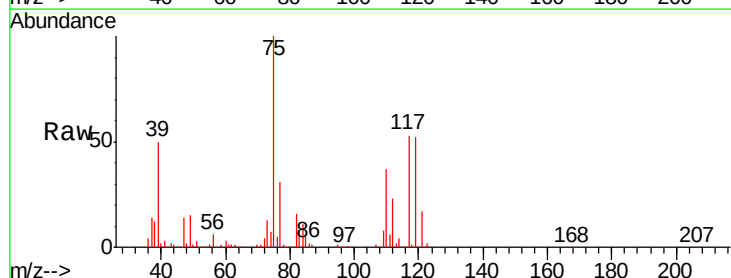
Manual Integrations
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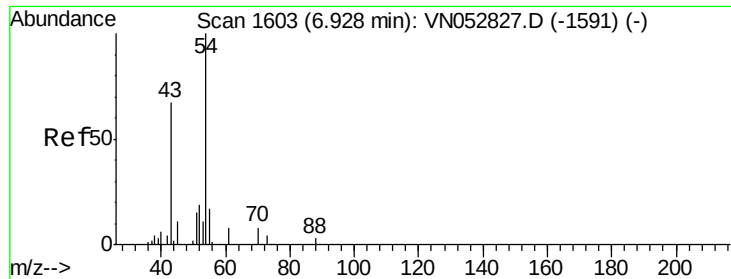
MMDadoda
12/18/2018 1:33:37 PM



#36
1,1-Dichloropropene
Concen: 47.868 ug/l
RT: 7.79 min Scan# 1872
Delta R.T. -0.00 min
Lab File: VN052940.D
Acq: 17 Dec 2018 20:58

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	737033		
110	36.3	18.2	54.6	
77	30.8	24.9	37.3	





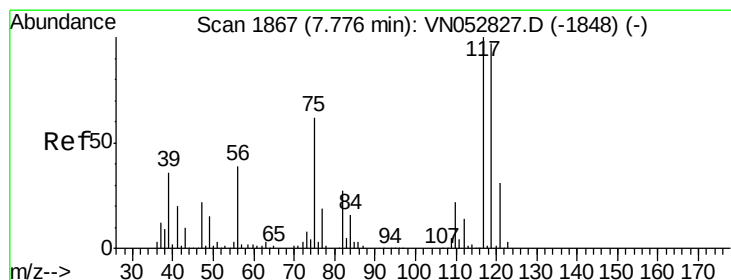
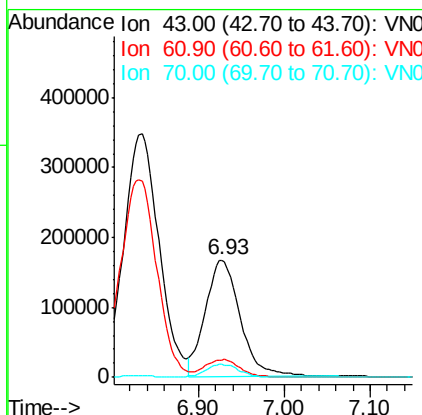
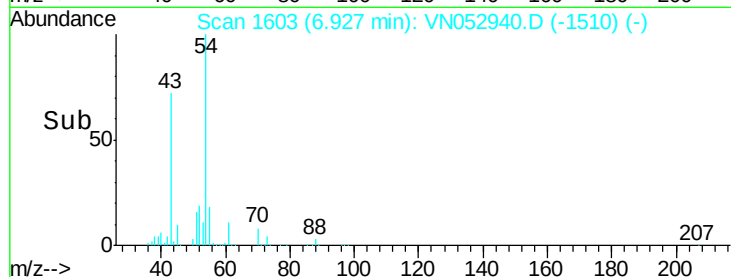
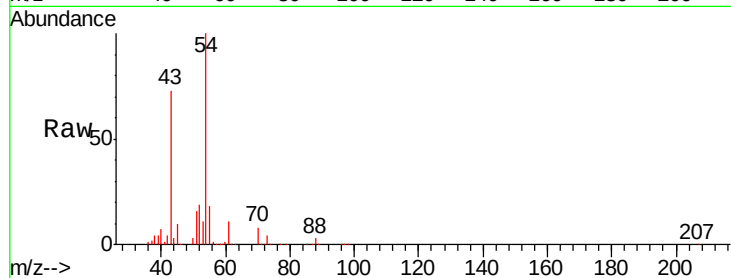
#37
Ethyl Acetate
Concen: 50.736 ug/l
RT: 6.93 min Scan# 1603
Delta R.T. -0.00 min
Lab File: VN052940.D
Acq: 17 Dec 2018 20:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
43	100		
61	15.2	11.8	17.6
70	11.1	8.4	12.6

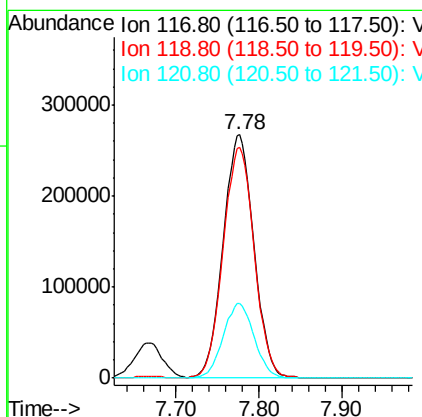
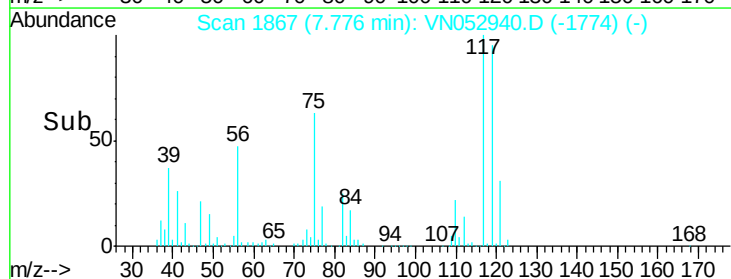
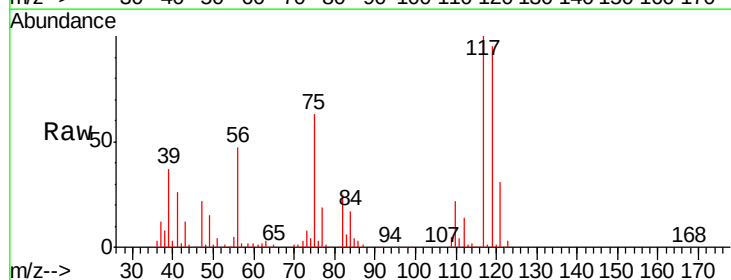
Manual Integrations
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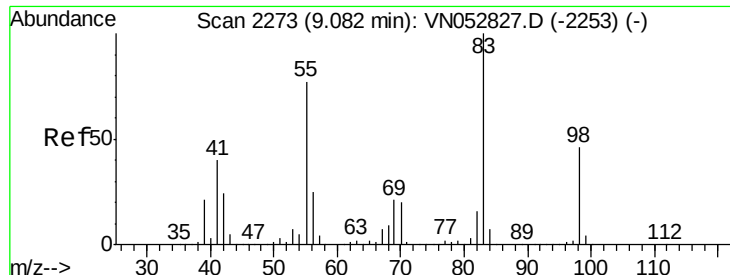
MMDadoda
12/18/2018 1:33:37 PM



#38
Carbon Tetrachloride
Concen: 48.239 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. -0.00 min
Lab File: VN052940.D
Acq: 17 Dec 2018 20:58

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.9	77.1	115.7
121	30.9	24.9	37.3





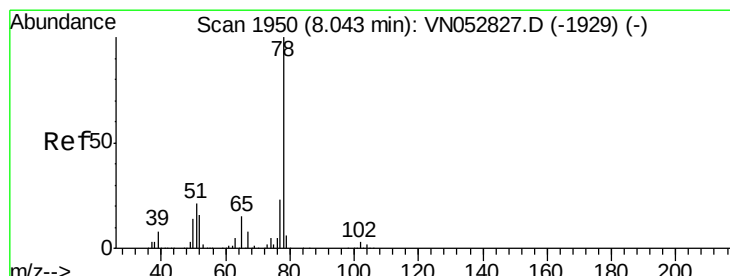
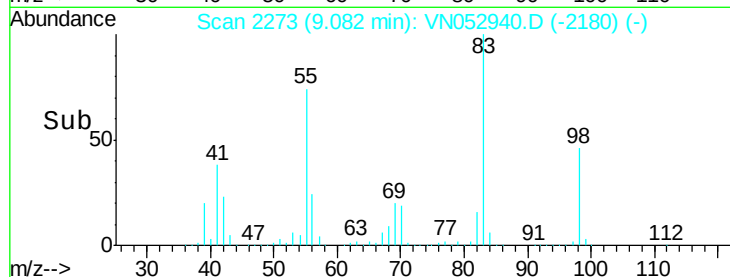
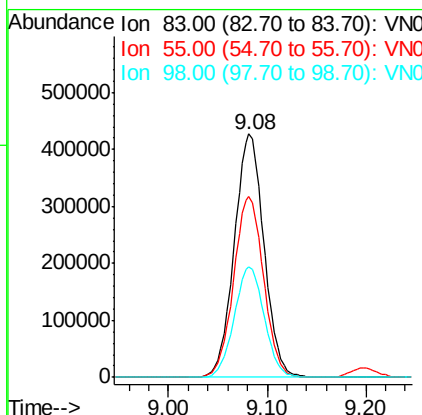
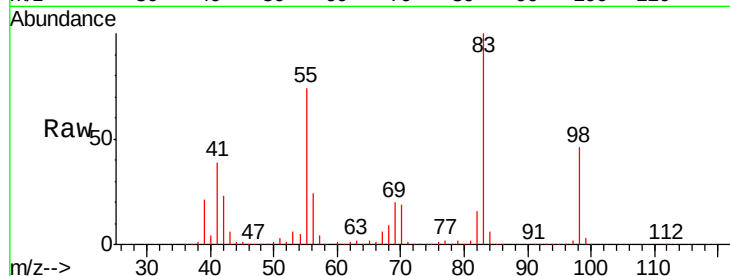
#39
Methylcyclohexane
Concen: 47.253 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. -0.00 min
Lab File: VN052940.D
Acq: 17 Dec 2018 20:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
83	100		
55	74.1	61.3	91.9
98	45.6	37.0	55.4

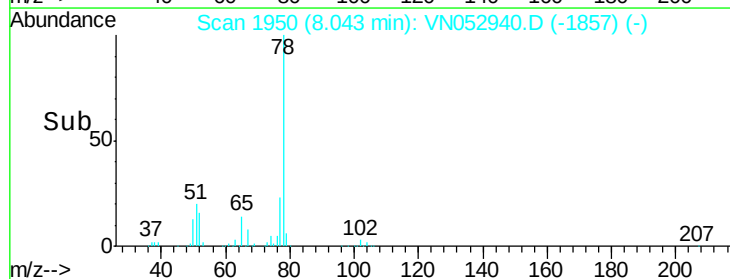
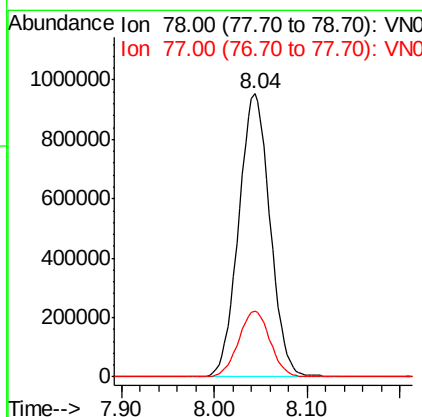
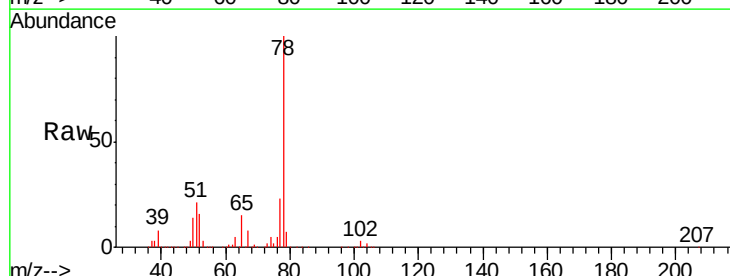
Manual Integrations
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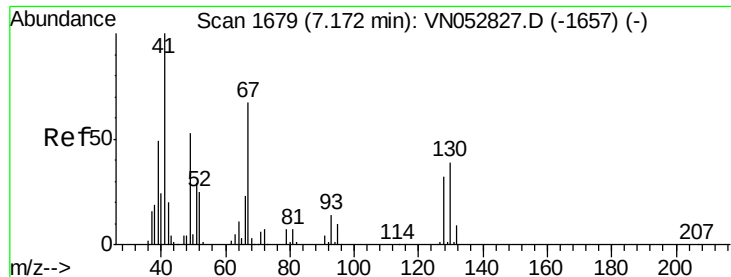
MMDadoda
12/18/2018 1:33:37 PM



#40
Benzene
Concen: 48.399 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. -0.00 min
Lab File: VN052940.D
Acq: 17 Dec 2018 20:58

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.3	18.5	27.7





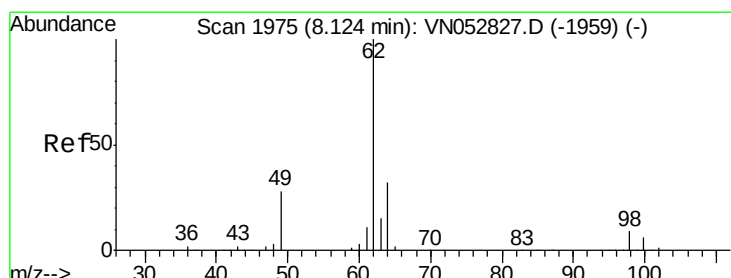
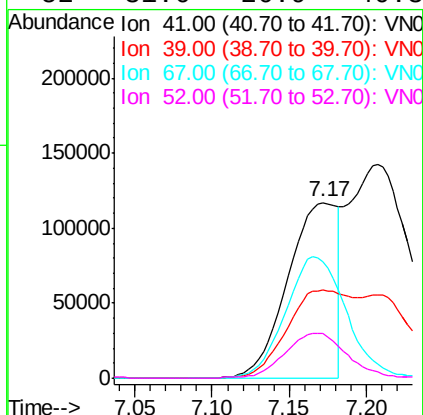
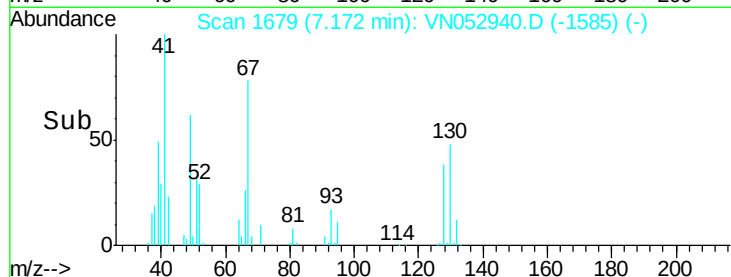
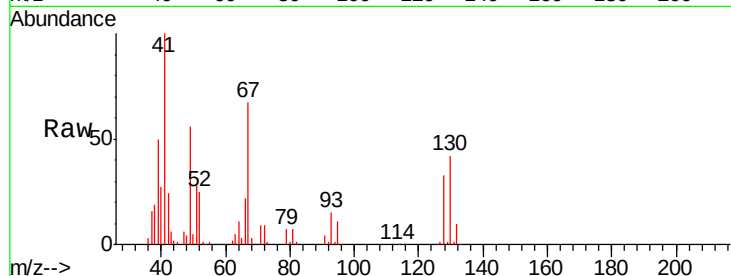
#41
Methacrylonitrile
Concen: 50.668 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. 0.00 min
Lab File: VN052940.D
Acq: 17 Dec 2018 20:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
41	100		
39	66.7	48.0	72.0
67	85.9	70.3	105.5
52	31.6	26.9	40.3

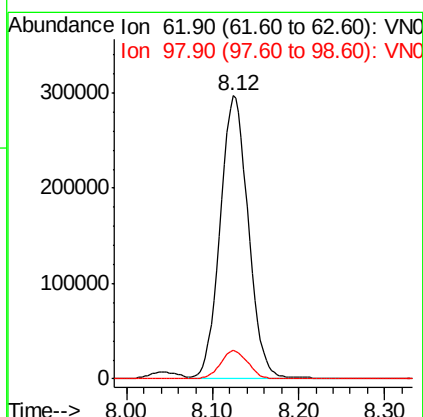
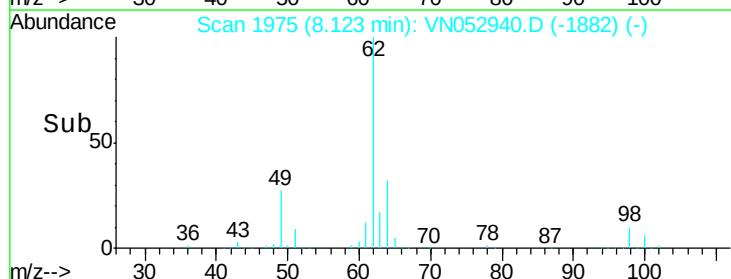
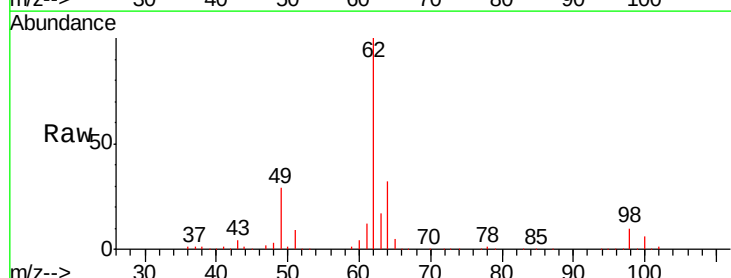
Manual Integrations
APPROVED

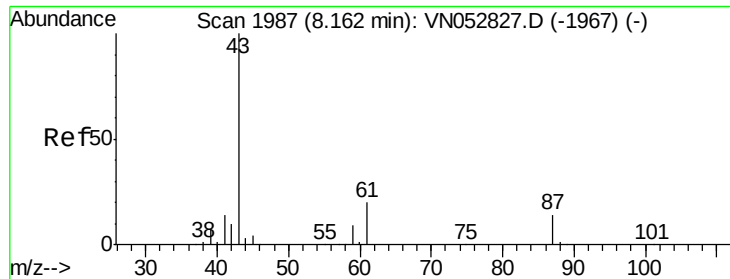
MMDadoda
12/18/2018 1:33:37 PM



#42
1,2-Dichloroethane
Concen: 48.379 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN052940.D
Acq: 17 Dec 2018 20:58

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.8	0.0	19.0





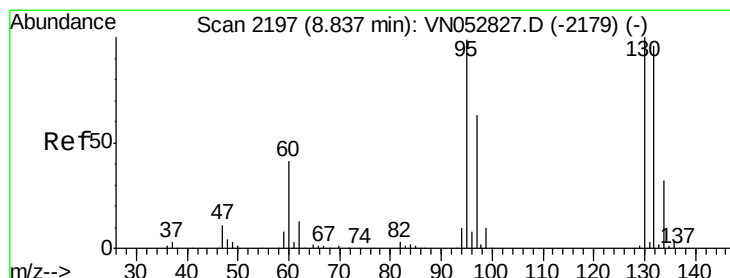
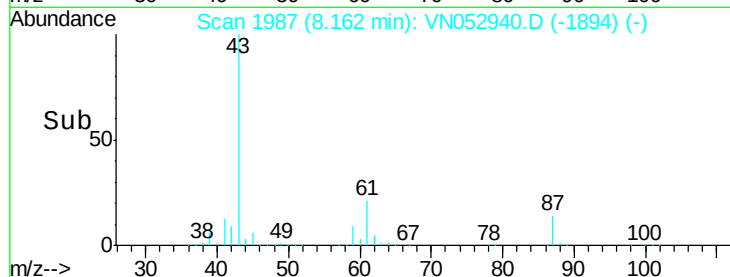
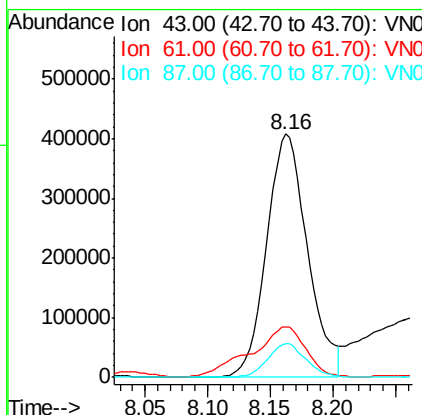
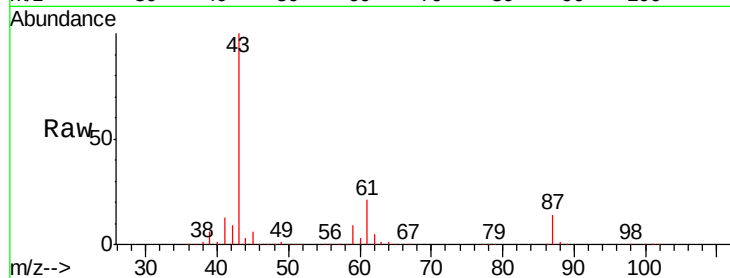
#43
Isopropyl Acetate
Concen: 48.580 ug/l
RT: 8.16 min Scan# 1987
Delta R.T. -0.00 min
Lab File: VN052940.D
Acq: 17 Dec 2018 20:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
43	100		
61	27.7	22.9	34.3
87	13.1	10.6	15.8

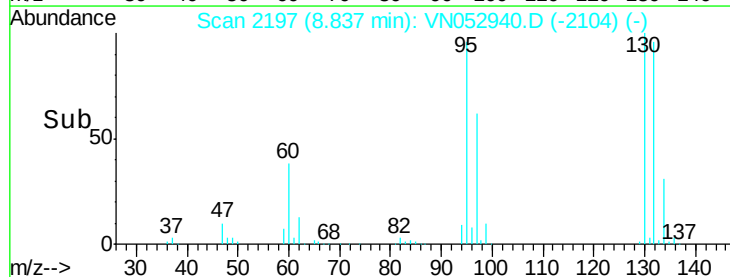
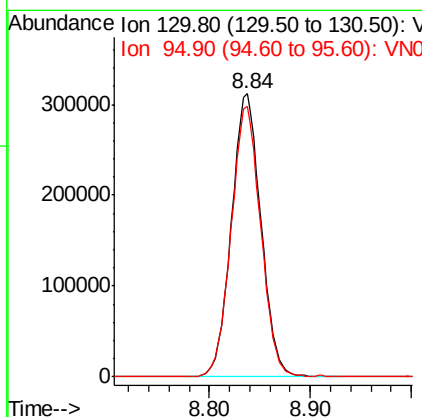
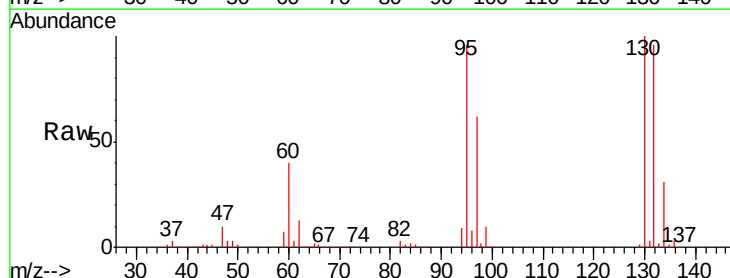
Manual Integrations
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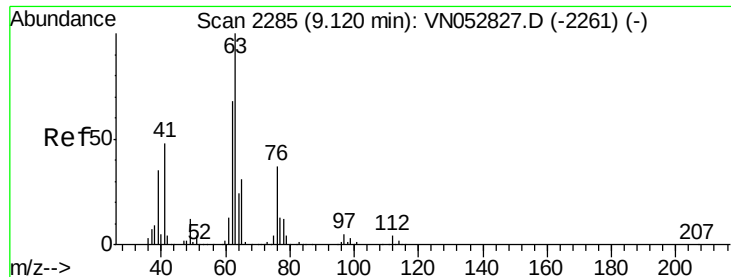
MMDadoda
12/18/2018 1:33:37 PM



#44
Trichloroethene
Concen: 50.763 ug/l
RT: 8.84 min Scan# 2197
Delta R.T. -0.00 min
Lab File: VN052940.D
Acq: 17 Dec 2018 20:58

Tgt Ion	Ratio	Lower	Upper
130	100		
95	95.6	0.0	197.8





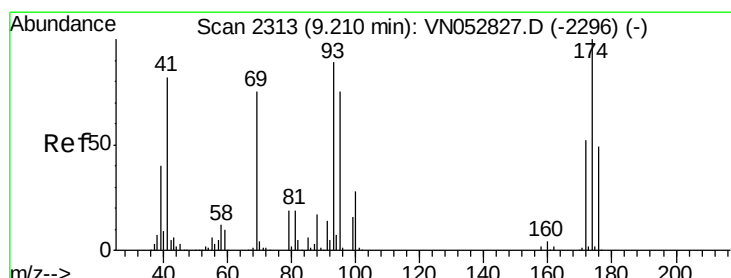
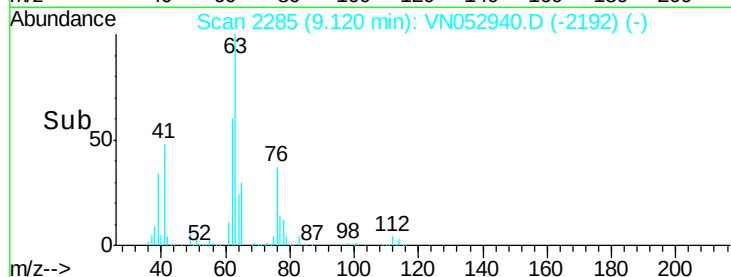
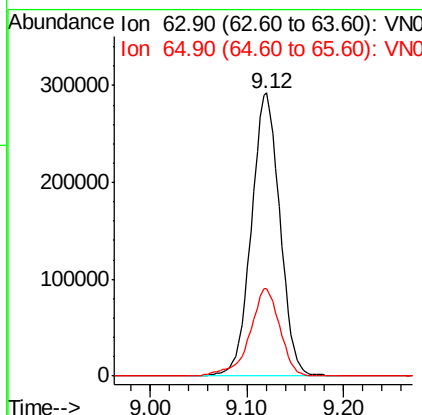
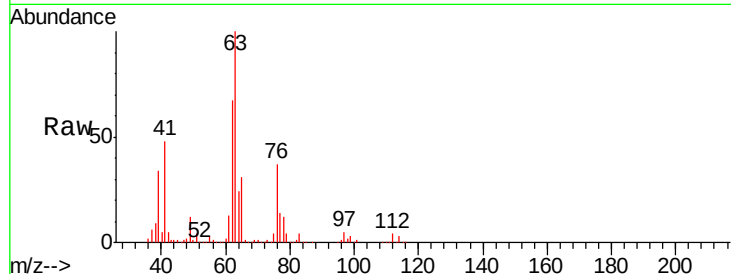
#45
 1,2-Dichloropropane
 Concen: 49.386 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. -0.00 min
 Lab File: VN052940.D
 Acq: 17 Dec 2018 20:58

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion: 63 Resp: 597780
 Ion Ratio Lower Upper
 63 100
 65 30.9 24.6 37.0

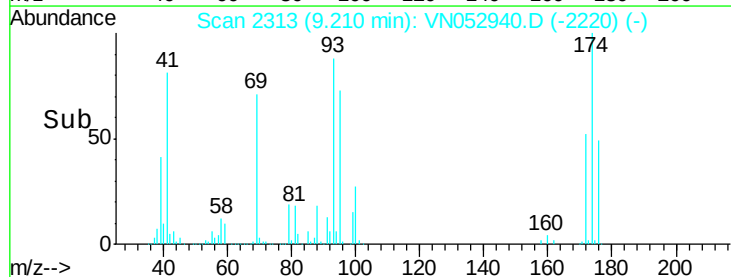
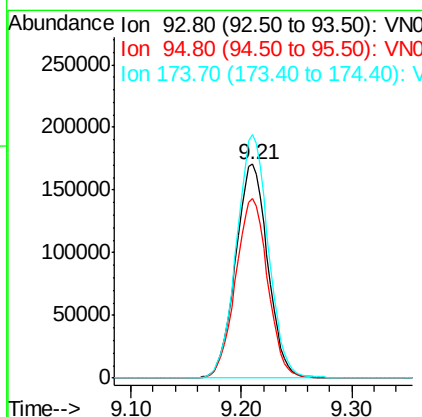
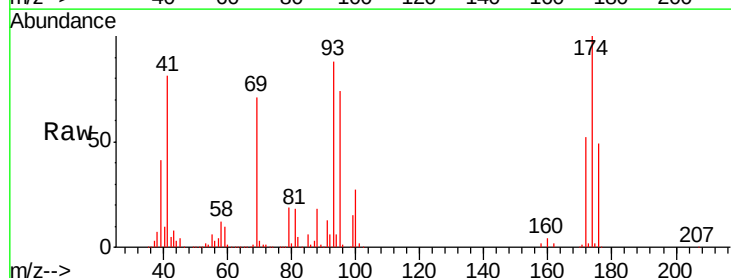
Manual Integrations
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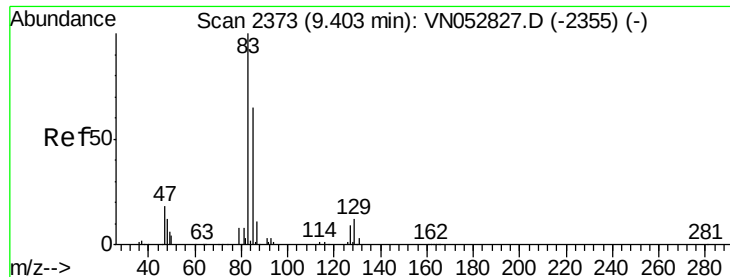
MMDadoda
 12/18/2018 1:33:37 PM



#46
 Dibromomethane
 Concen: 49.145 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. -0.00 min
 Lab File: VN052940.D
 Acq: 17 Dec 2018 20:58

Tgt Ion: 93 Resp: 344991
 Ion Ratio Lower Upper
 93 100
 95 83.8 67.8 101.6
 174 113.3 89.0 133.4





#47

Bromodichloromethane

Concen: 49.779 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN052940.D

Acq: 17 Dec 2018 20:58

Instrument :

MSVOA_N

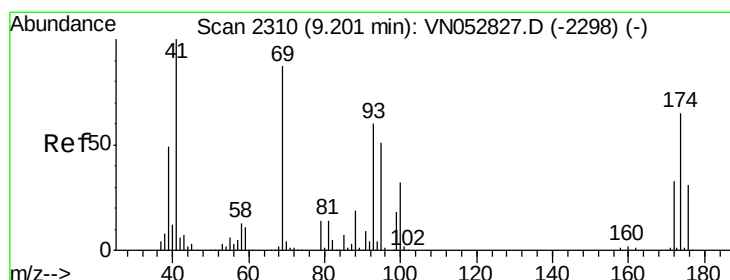
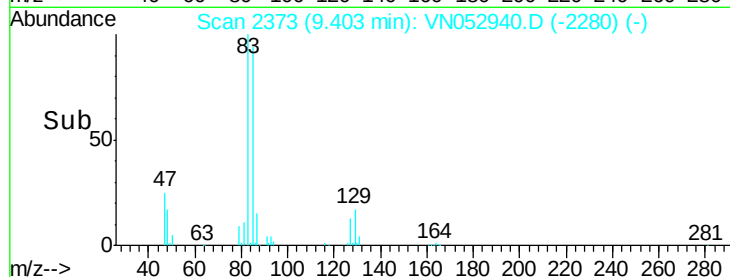
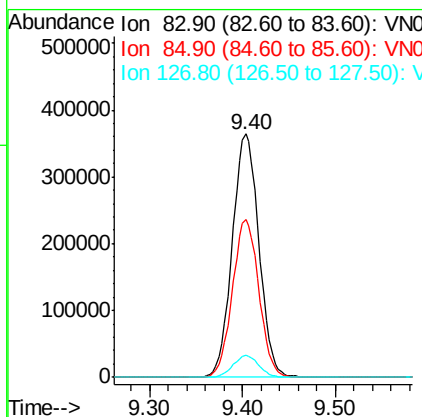
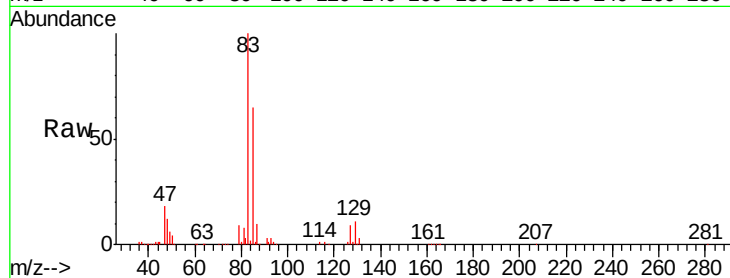
ClientSampleId :

VSTDCCC050EC

Tgt Ion:	83	Resp:	724625
Ion Ratio	Lower	Upper	
83	100		
85	64.8	51.6	77.4
127	8.9	7.1	10.7

Manual Integrations
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#48

Methyl methacrylate

Concen: 52.948 ug/l

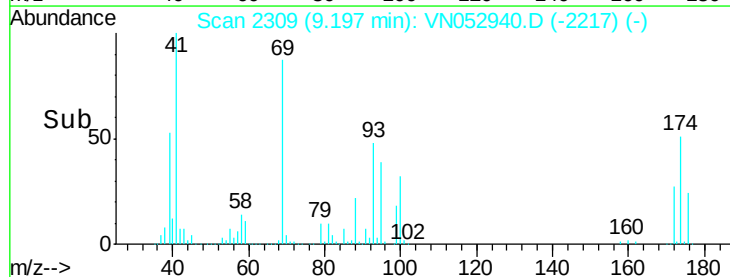
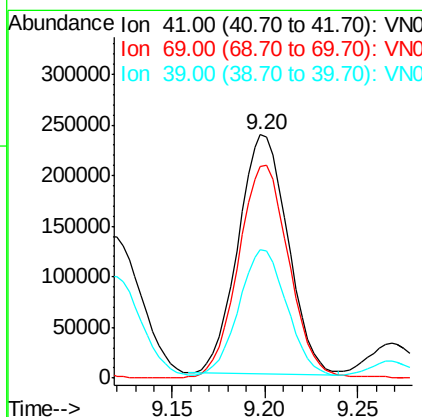
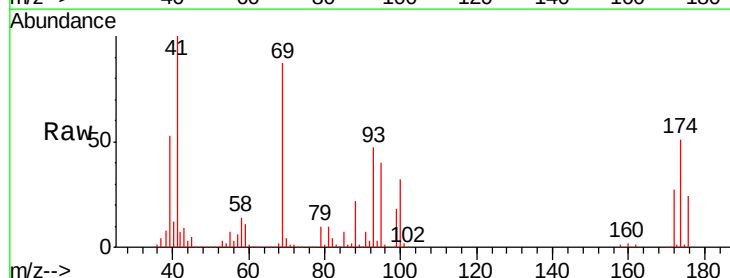
RT: 9.20 min Scan# 2309

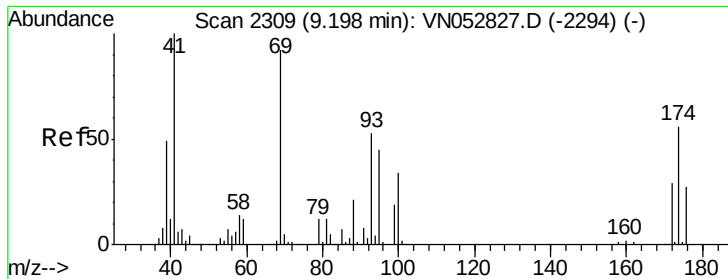
Delta R.T. -0.00 min

Lab File: VN052940.D

Acq: 17 Dec 2018 20:58

Tgt Ion:	41	Resp:	440356
Ion Ratio	Lower	Upper	
41	100		
69	90.4	72.2	108.2
39	52.9	41.9	62.9





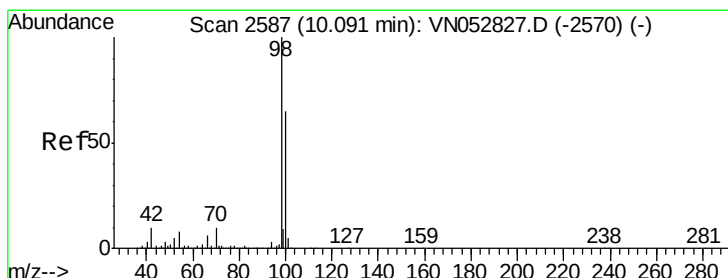
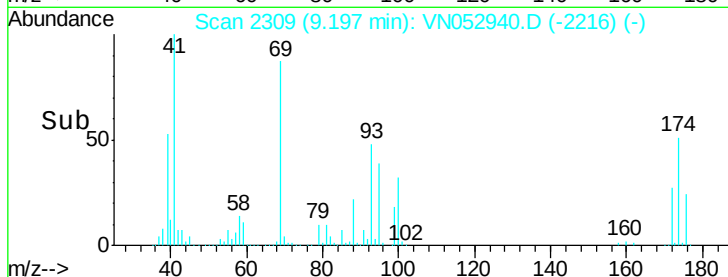
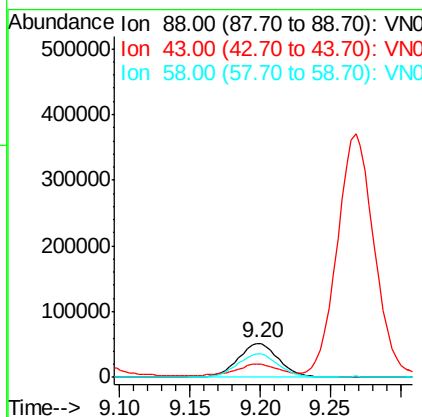
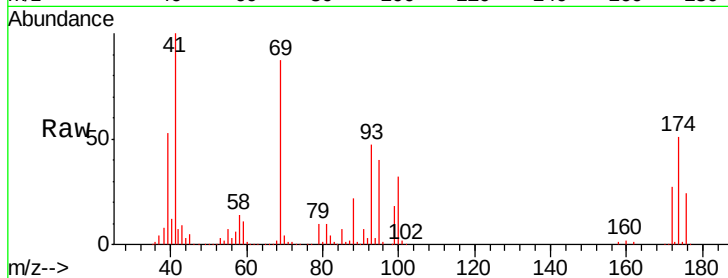
#49
1,4-Dioxane
Concen: 1112.279 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. -0.00 min
Lab File: VN052940.D
Acq: 17 Dec 2018 20:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
88	100		
43	33.1	26.6	40.0
58	69.9	58.4	87.6

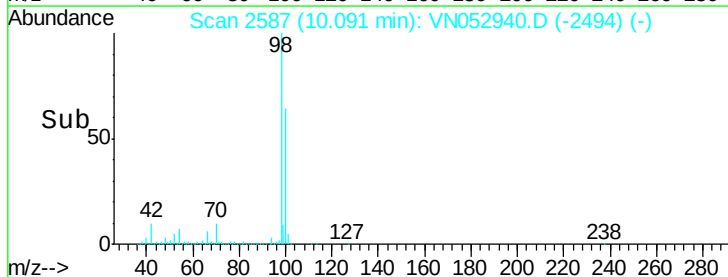
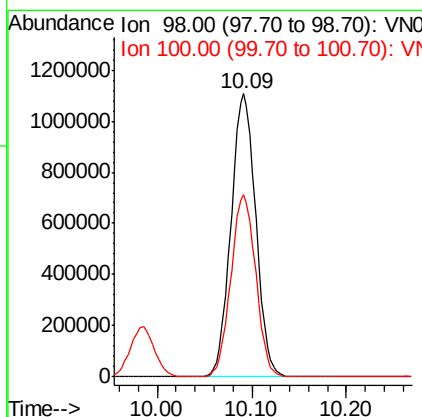
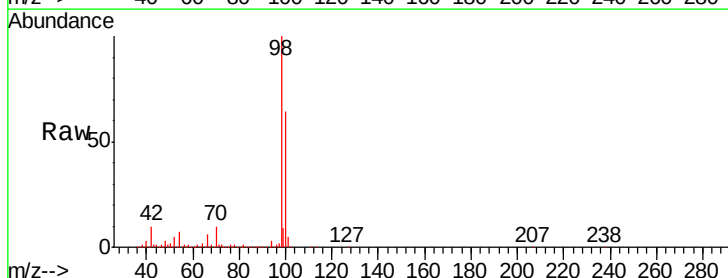
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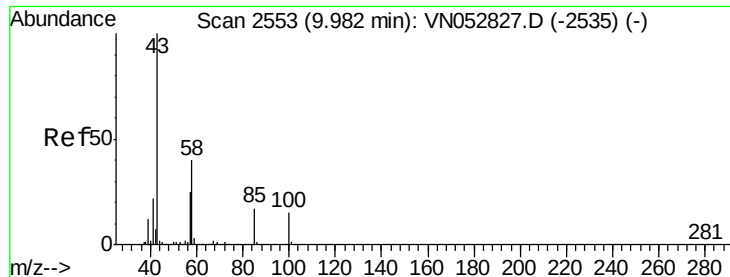
MMDadoda
12/18/2018 1:33:37 PM



#50
Toluene-d8
Concen: 1112.279 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN052940.D
Acq: 17 Dec 2018 20:58

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.5	51.6	77.4





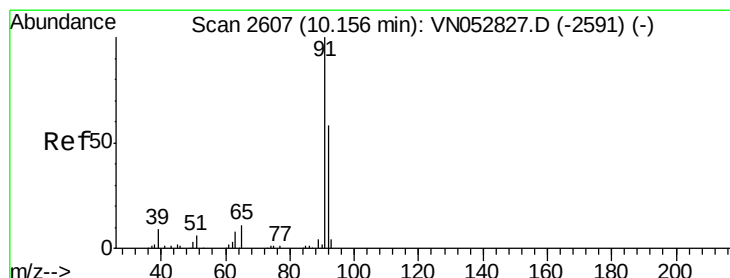
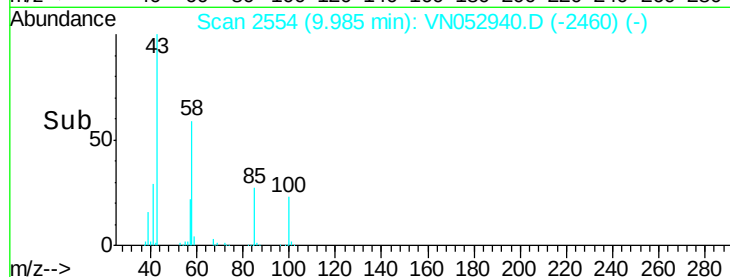
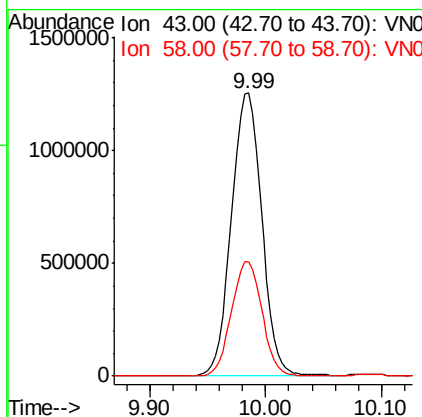
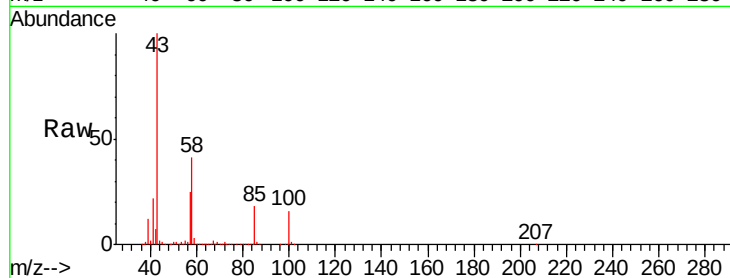
#51
 4-Methyl-2-Pentanone
 Concen: 261.201 ug/l
 RT: 9.99 min Scan# 2554
 Delta R.T. 0.00 min
 Lab File: VN052940.D
 Acq: 17 Dec 2018 20:58

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion: 43 Resp: 2271395
 Ion Ratio Lower Upper
 43 100
 58 40.7 32.2 48.4

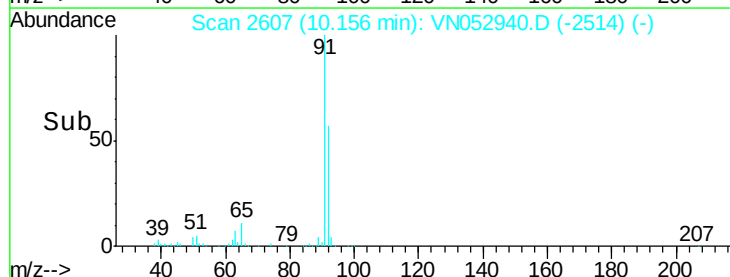
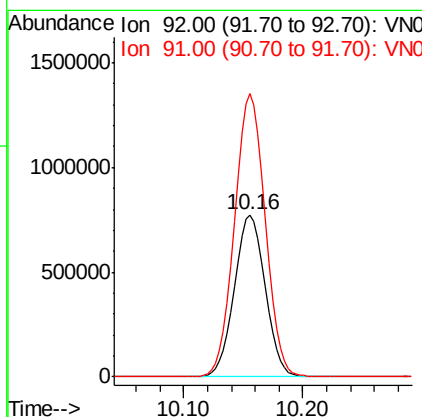
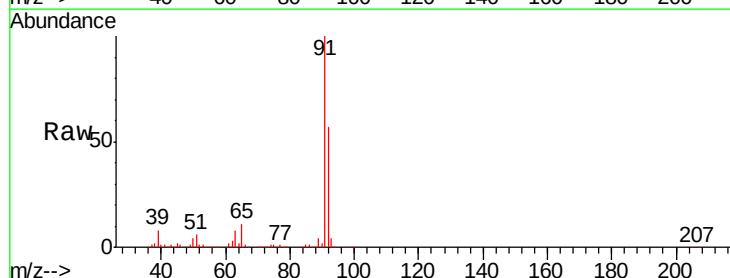
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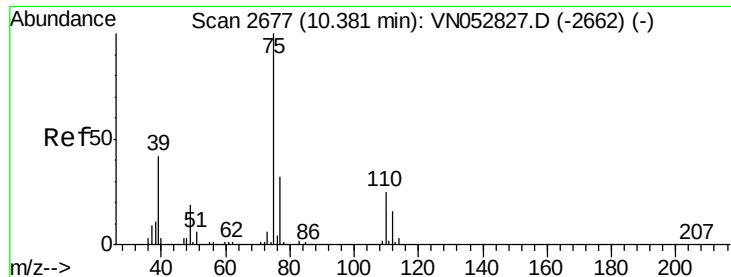
MMDadoda
 12/18/2018 1:33:37 PM



#52
 Toluene
 Concen: 49.509 ug/l
 RT: 10.16 min Scan# 2607
 Delta R.T. -0.00 min
 Lab File: VN052940.D
 Acq: 17 Dec 2018 20:58

Tgt Ion: 92 Resp: 1385724
 Ion Ratio Lower Upper
 92 100
 91 174.7 139.8 209.6





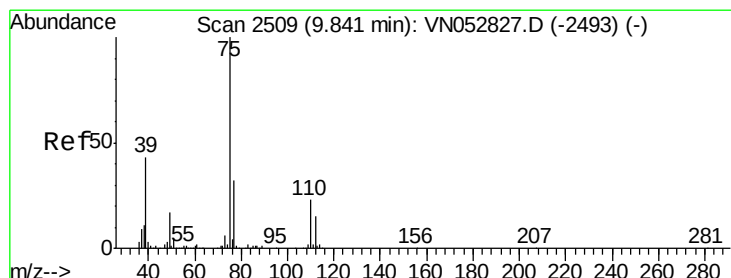
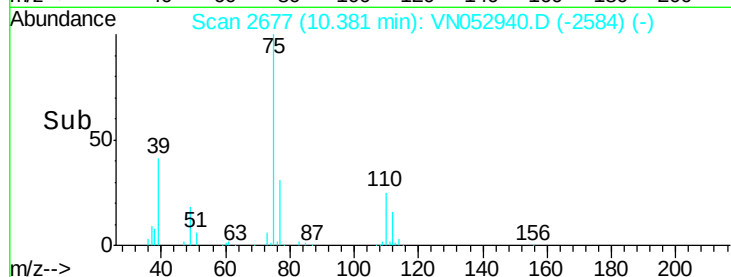
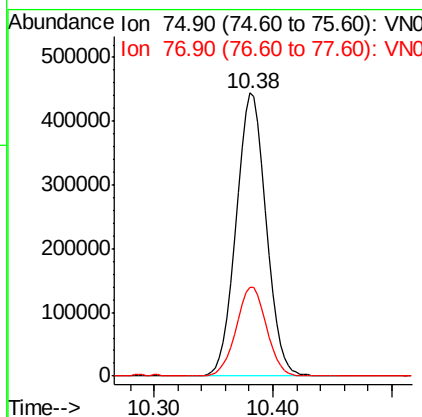
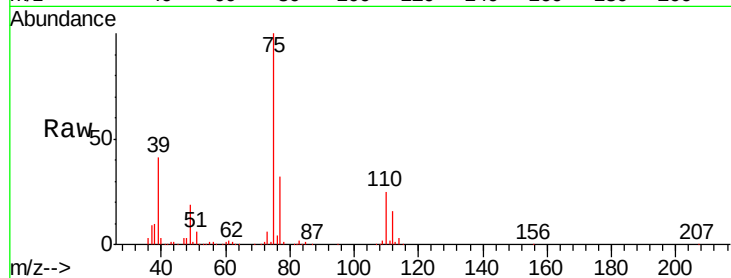
#53
 t-1,3-Dichloropropene
 Concen: 52.981 ug/l
 RT: 10.38 min Scan# 2677
 Delta R.T. -0.00 min
 Lab File: VN052940.D
 Acq: 17 Dec 2018 20:58

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion: 75 Resp: 776084
 Ion Ratio Lower Upper
 75 100
 77 31.5 25.6 38.4

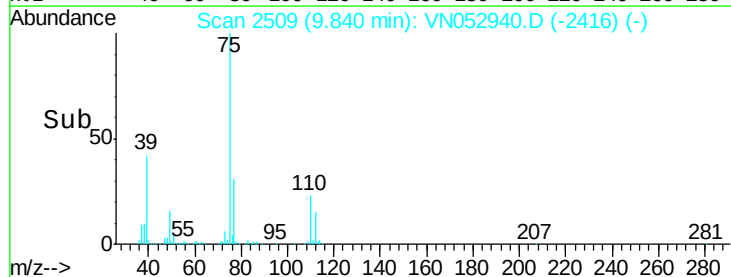
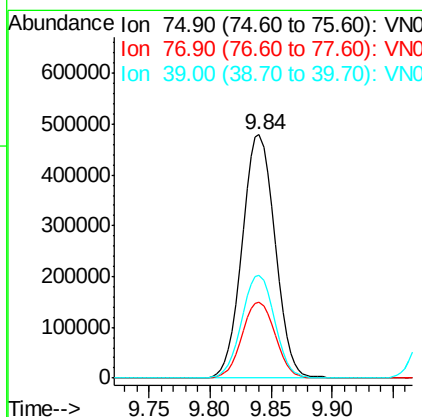
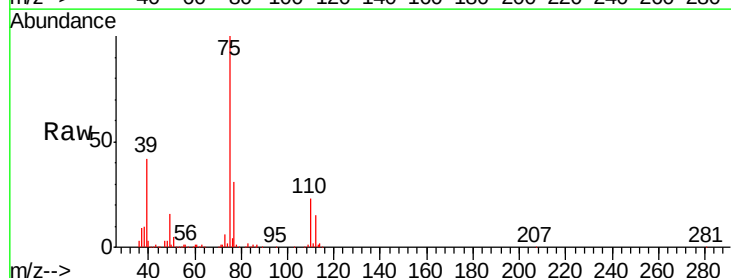
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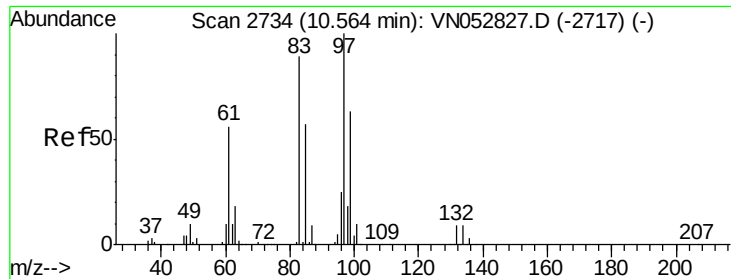
MMDadoda
 12/18/2018 1:33:37 PM



#54
 cis-1,3-Dichloropropene
 Concen: 50.961 ug/l
 RT: 9.84 min Scan# 2509
 Delta R.T. -0.00 min
 Lab File: VN052940.D
 Acq: 17 Dec 2018 20:58

Tgt Ion: 75 Resp: 889551
 Ion Ratio Lower Upper
 75 100
 77 31.1 25.8 38.8
 39 42.1 34.8 52.2





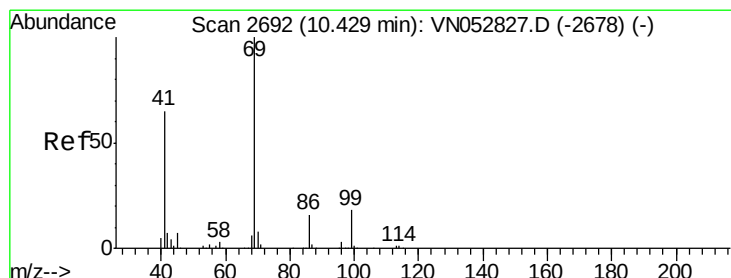
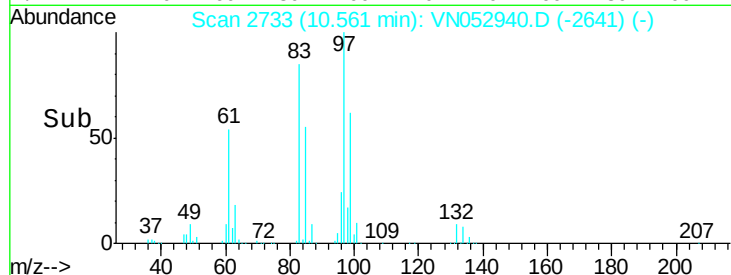
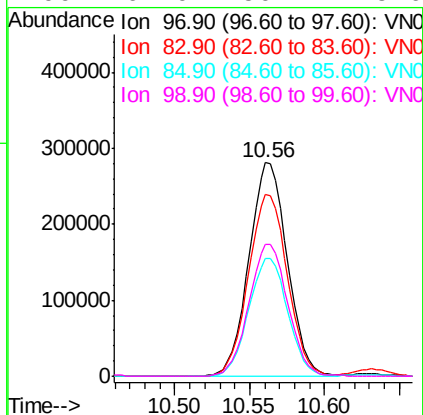
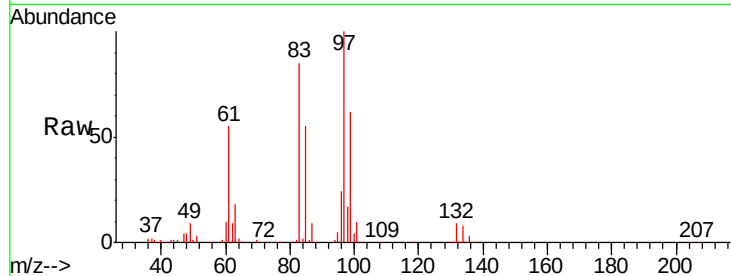
#55
 1,1,2-Trichloroethane
 Concen: 50.172 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. -0.00 min
 Lab File: VN052940.D
 Acq: 17 Dec 2018 20:58

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
97	100		
83	85.2	70.9	106.3
85	55.2	45.4	68.2
99	62.0	50.4	75.6

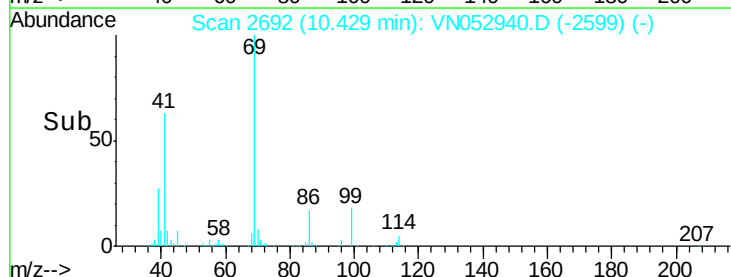
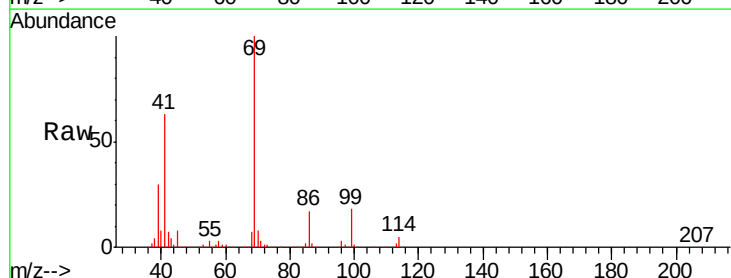
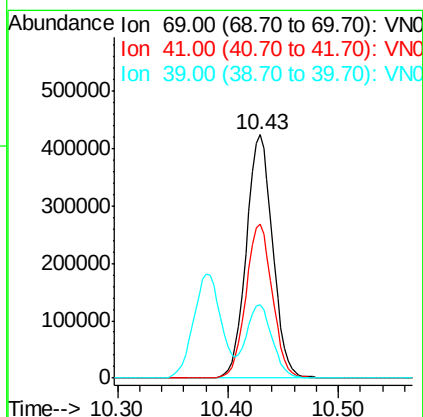
Manual Integrations
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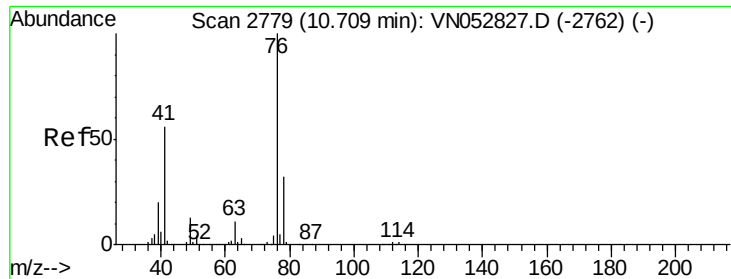
MMDadoda
 12/18/2018 1:33:37 PM



#56
 Ethyl methacrylate
 Concen: 54.589 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. -0.00 min
 Lab File: VN052940.D
 Acq: 17 Dec 2018 20:58

Tgt Ion	Ratio	Lower	Upper
69	100		
41	62.9	51.7	77.5
39	29.7	24.6	37.0





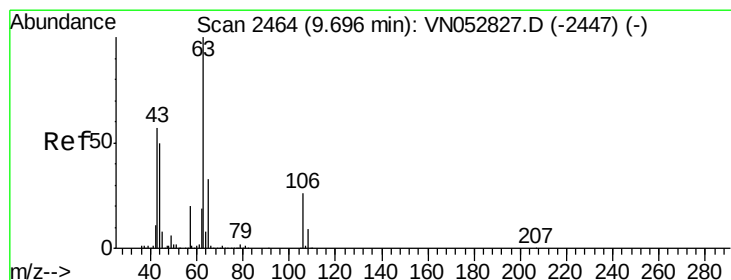
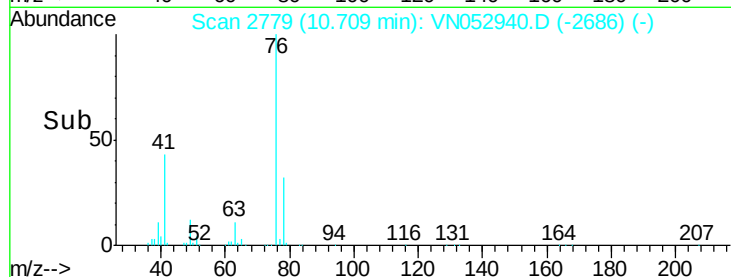
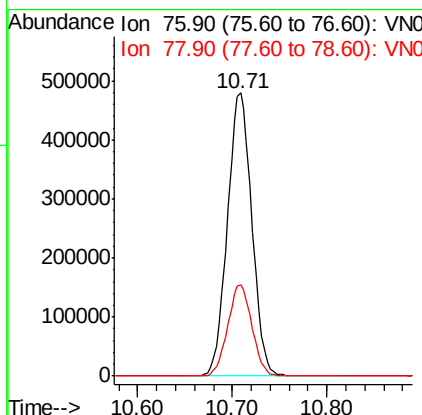
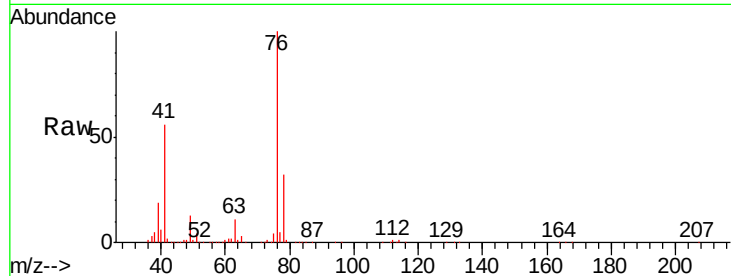
#57
 1,3-Dichloropropane
 Concen: 50.065 ug/l
 RT: 10.71 min Scan# 2779
 Delta R.T. -0.00 min
 Lab File: VN052940.D
 Acq: 17 Dec 2018 20:58

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion: 76 Resp: 857787
 Ion Ratio Lower Upper
 76 100
 78 32.0 25.8 38.8

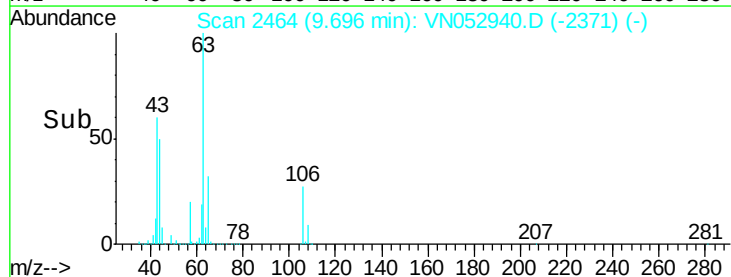
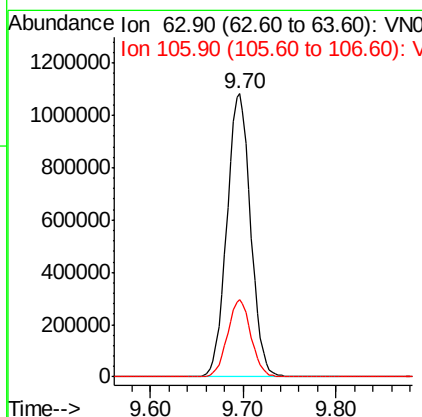
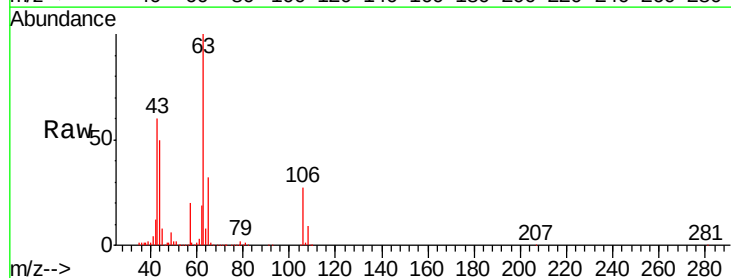
Manual Integrations
 APPROVED

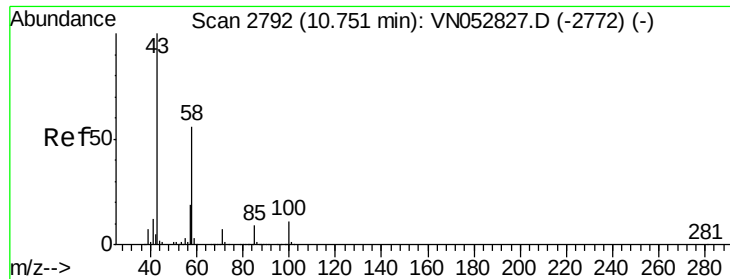
MMDadoda
 12/18/2018 1:33:37 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 268.308 ug/l
 RT: 9.70 min Scan# 2464
 Delta R.T. -0.00 min
 Lab File: VN052940.D
 Acq: 17 Dec 2018 20:58

Tgt Ion: 63 Resp: 1919632
 Ion Ratio Lower Upper
 63 100
 106 26.9 21.0 31.6





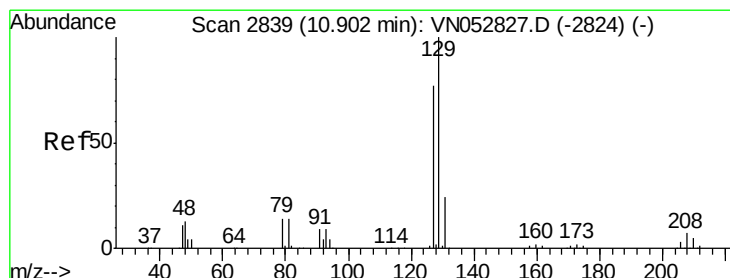
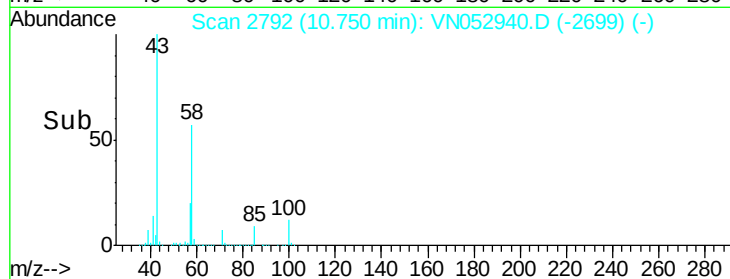
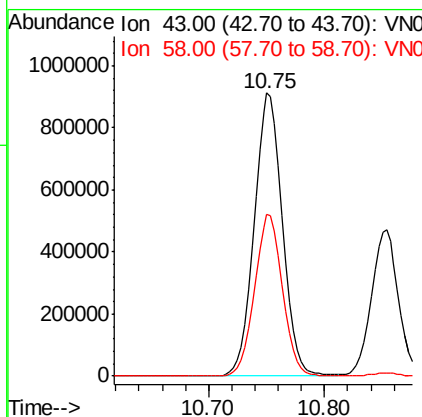
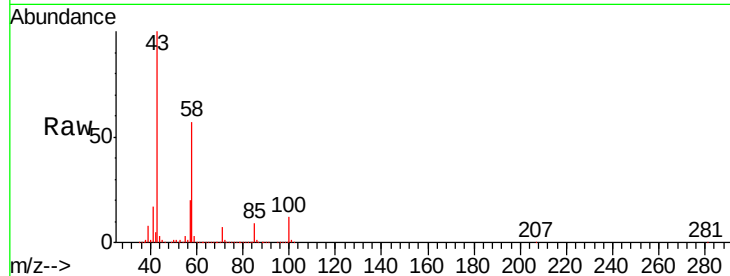
#59
2-Hexanone
Concen: 258.200 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN052940.D
Acq: 17 Dec 2018 20:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 1538744
Ion Ratio Lower Upper
43 100
58 56.9 28.1 84.3

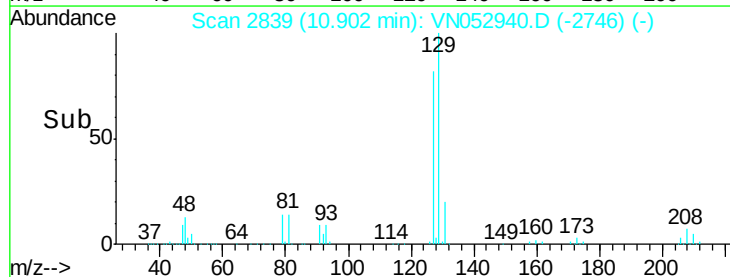
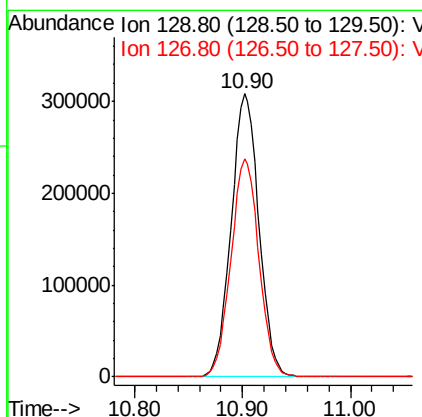
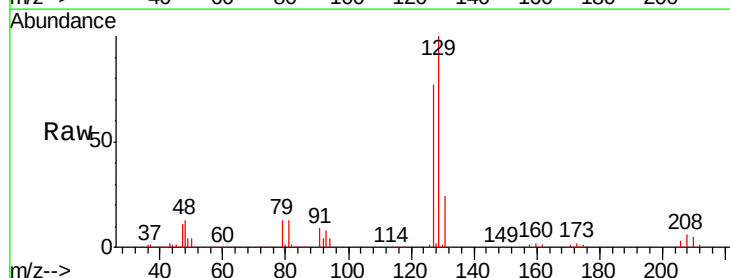
Manual Integrations
APPROVED

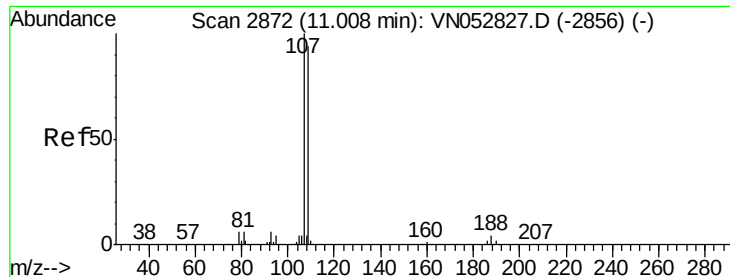
MMDadoda
12/18/2018 1:33:37 PM



#60
Dibromochloromethane
Concen: 51.266 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN052940.D
Acq: 17 Dec 2018 20:58

Tgt Ion: 129 Resp: 553589
Ion Ratio Lower Upper
129 100
127 77.6 38.6 116.0





#61

1,2-Dibromoethane

Concen: 51.359 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. -0.00 min

Lab File: VN052940.D

Acq: 17 Dec 2018 20:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 107 Resp: 507228

Ion Ratio Lower Upper

107 100

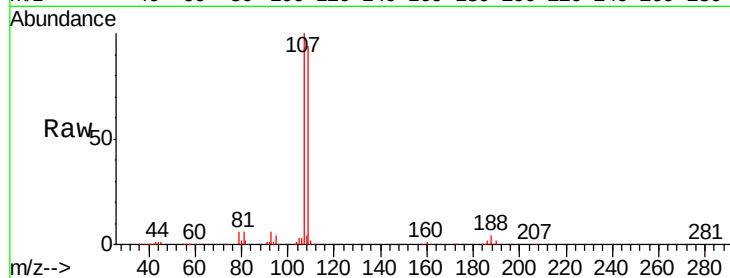
109 94.3 75.4 113.0

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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.01

300000

250000

200000

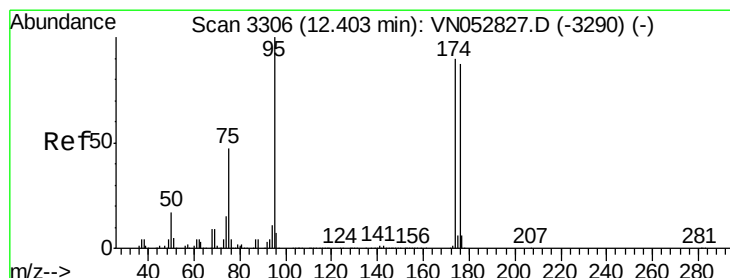
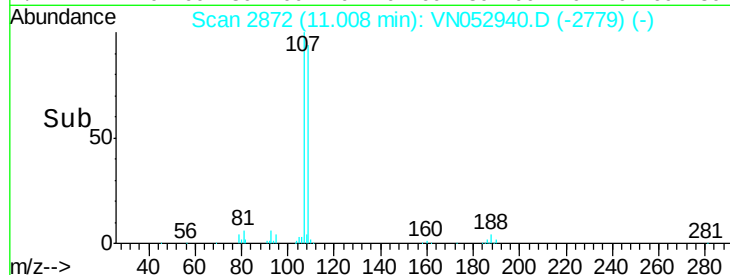
150000

100000

50000

0

Time--> 10.90 11.00 11.10



#62

4-Bromofluorobenzene

Concen: 51.359 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN052940.D

Acq: 17 Dec 2018 20:58

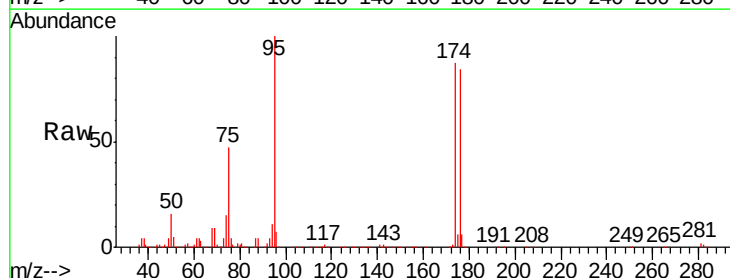
Tgt Ion: 95 Resp: 708863

Ion Ratio Lower Upper

95 100

174 88.6 0.0 178.8

176 85.8 0.0 173.8



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.40

600000

500000

400000

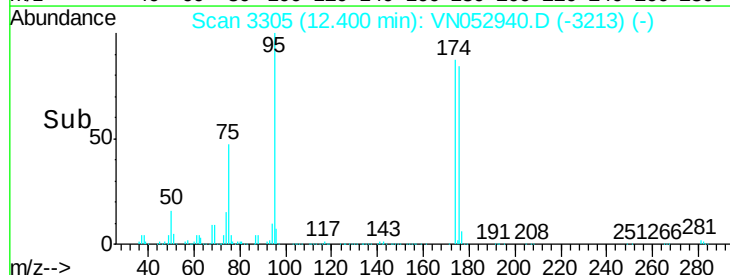
300000

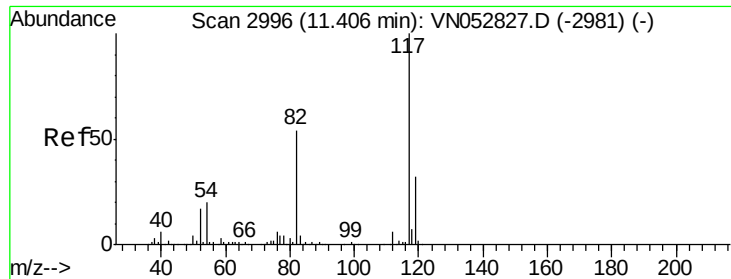
200000

100000

0

Time--> 12.30 12.35 12.40 12.45





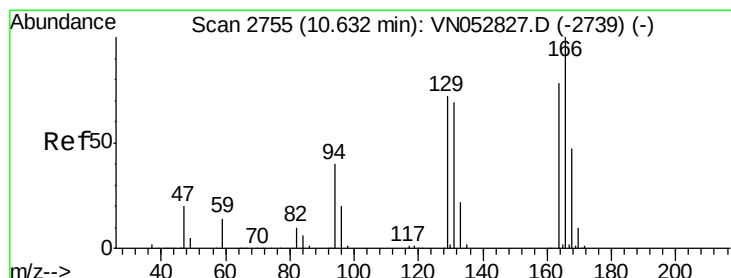
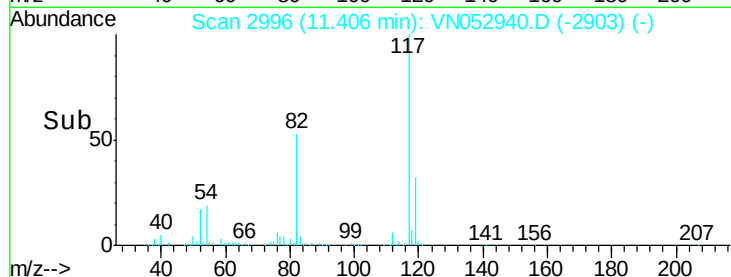
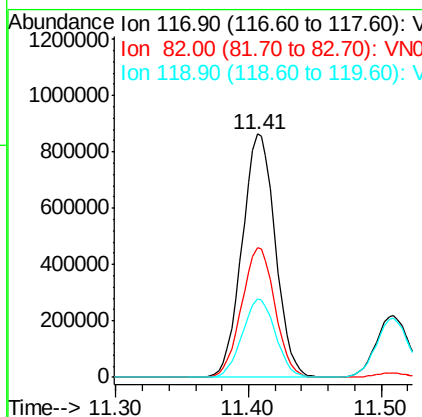
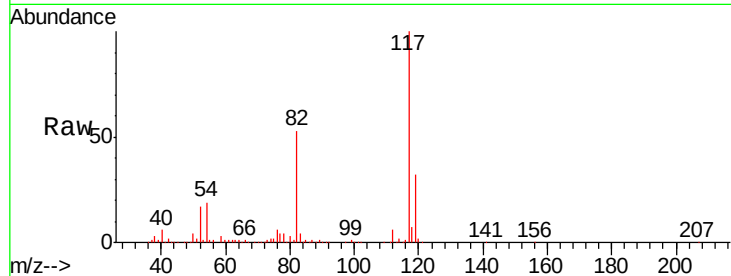
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052940.D
Acq: 17 Dec 2018 20:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:117 Resp: 1500698
Ion Ratio Lower Upper
117 100
82 53.2 42.8 64.2
119 32.1 25.5 38.3

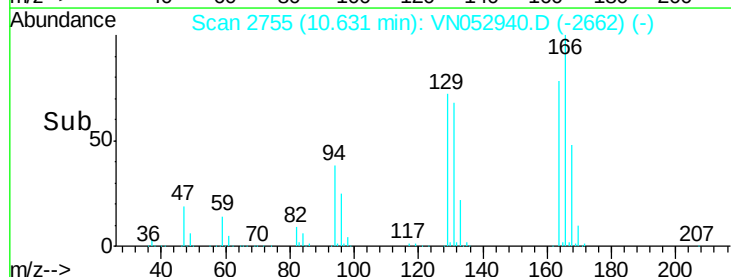
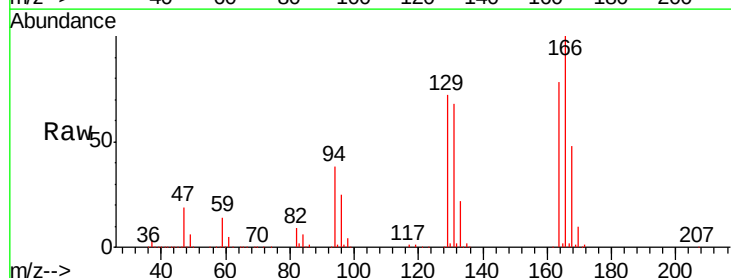
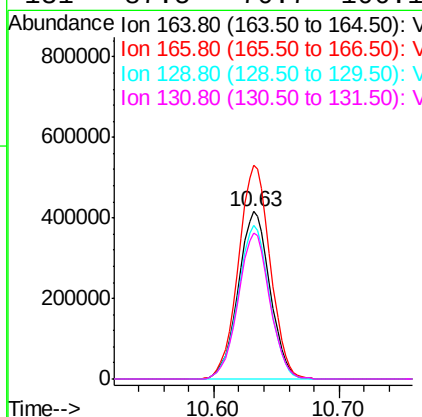
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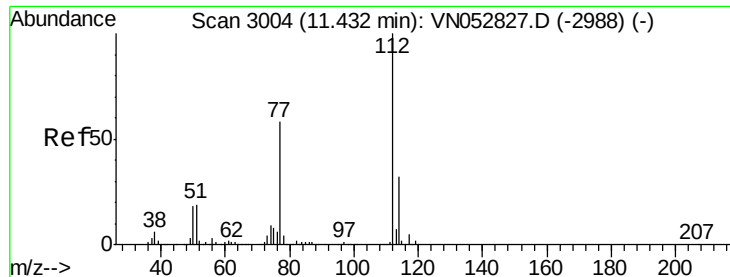
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#64
Tetrachloroethene
Concen: 56.553 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN052940.D
Acq: 17 Dec 2018 20:58

Tgt Ion:164 Resp: 729428
Ion Ratio Lower Upper
164 100
166 127.8 102.9 154.3
129 91.9 73.7 110.5
131 87.5 70.7 106.1





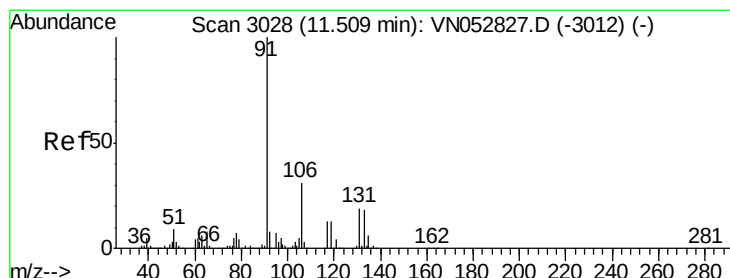
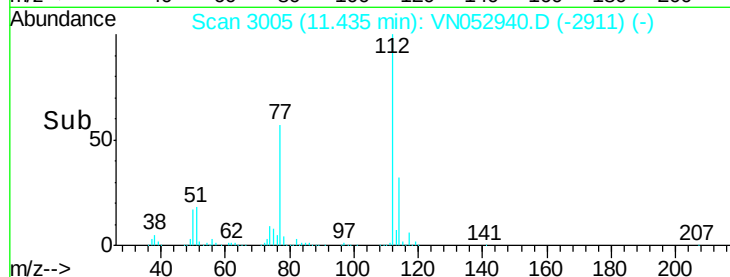
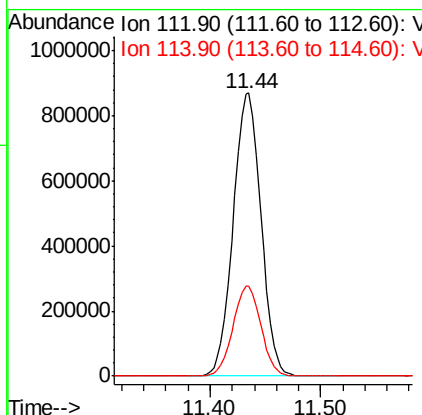
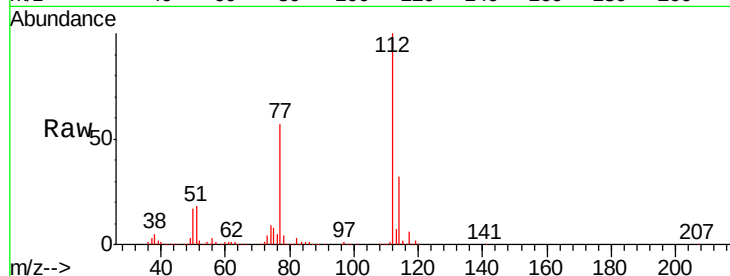
#65
Chlorobenzene
Concen: 48.857 ug/l
RT: 11.44 min Scan# 3005
Delta R.T. 0.00 min
Lab File: VN052940.D
Acq: 17 Dec 2018 20:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:112 Resp: 1521135
Ion Ratio Lower Upper
112 100
114 31.8 25.5 38.3

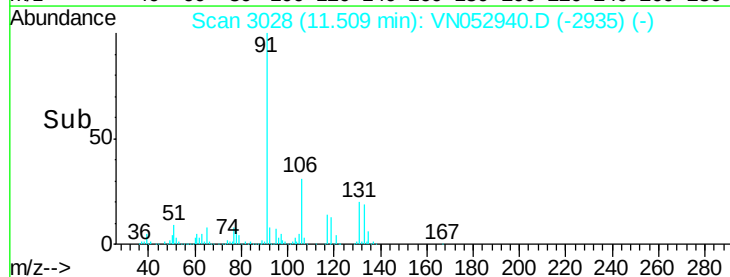
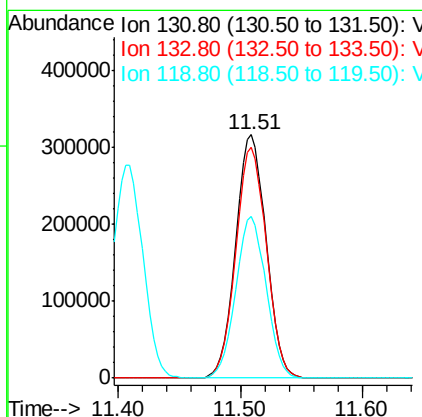
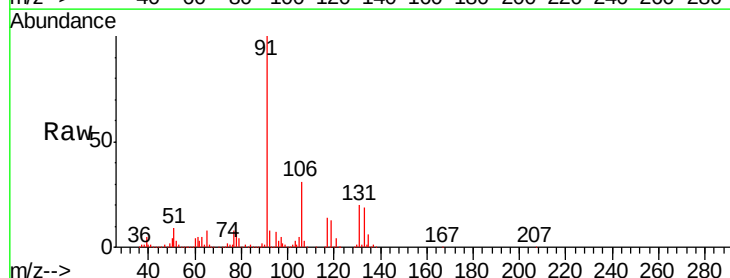
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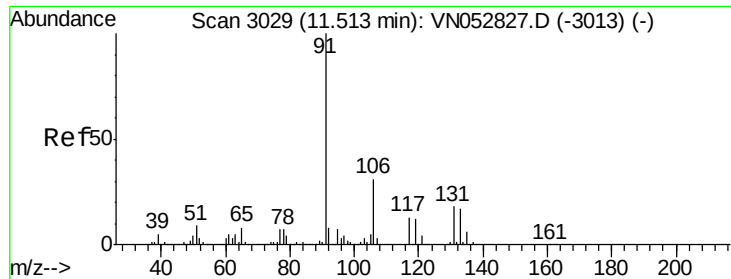
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#66
1,1,1,2-Tetrachloroethane
Concen: 50.354 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN052940.D
Acq: 17 Dec 2018 20:58

Tgt Ion:131 Resp: 545232
Ion Ratio Lower Upper
131 100
133 95.4 47.6 142.9
119 66.3 33.3 99.8





#67

Ethyl Benzene

Concen: 49.726 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. -0.00 min

Lab File: VN052940.D

Acq: 17 Dec 2018 20:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 91 Resp: 2658683

Ion Ratio Lower Upper

91 100

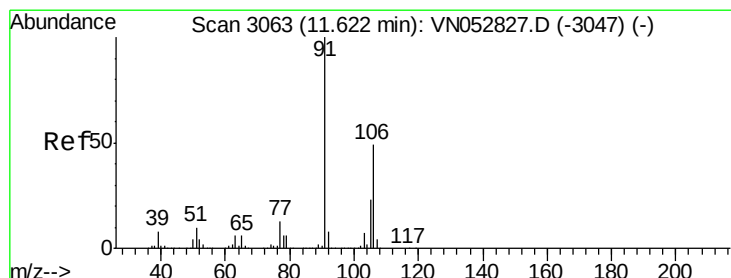
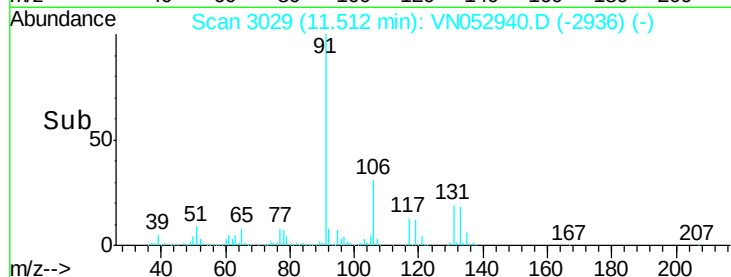
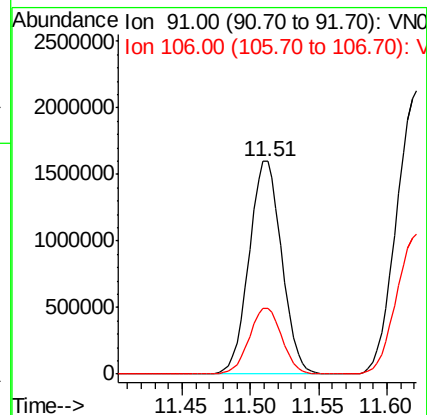
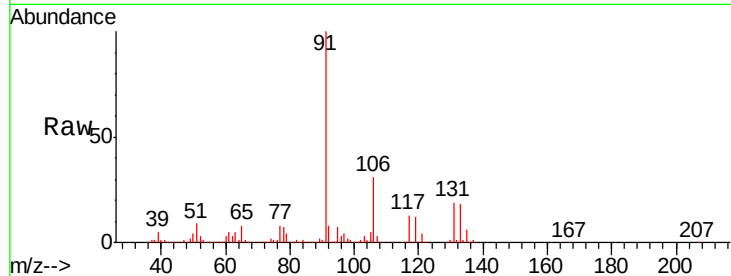
106 31.2 24.9 37.3

Manual Integrations

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#68

m/p-Xylenes

Concen: 100.742 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. -0.00 min

Lab File: VN052940.D

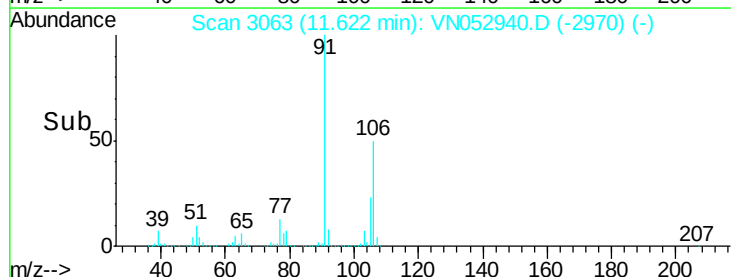
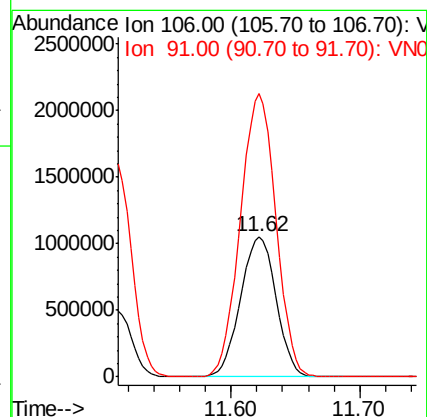
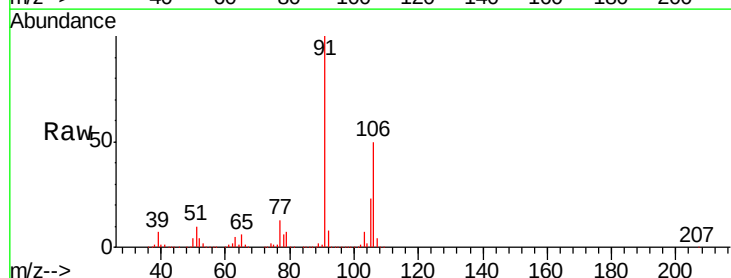
Acq: 17 Dec 2018 20:58

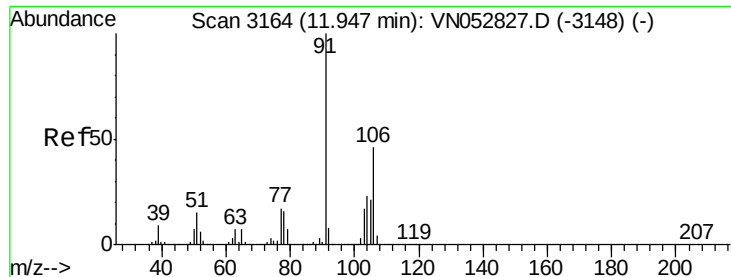
Tgt Ion: 106 Resp: 2022525

Ion Ratio Lower Upper

106 100

91 201.4 162.2 243.4





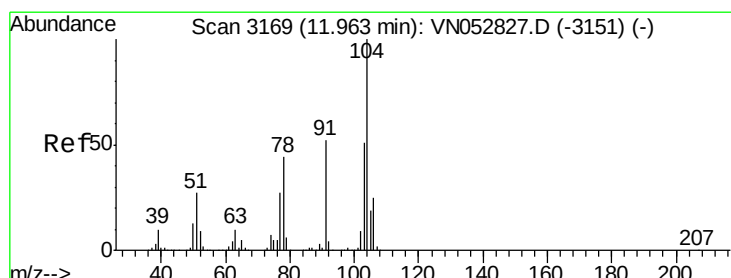
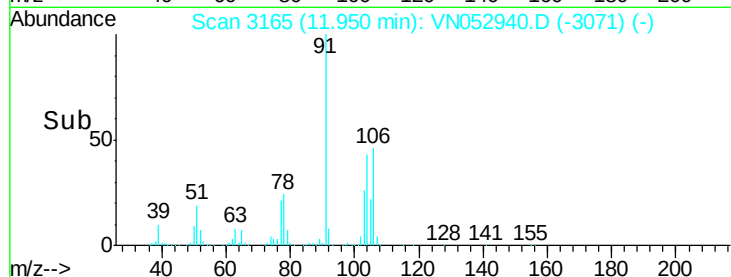
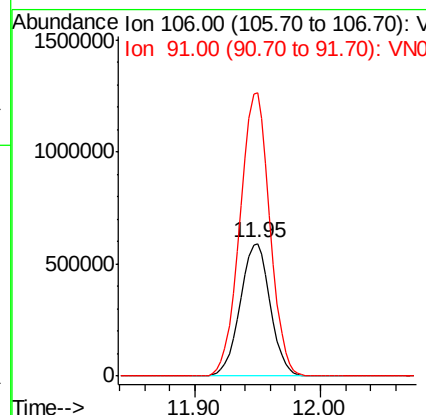
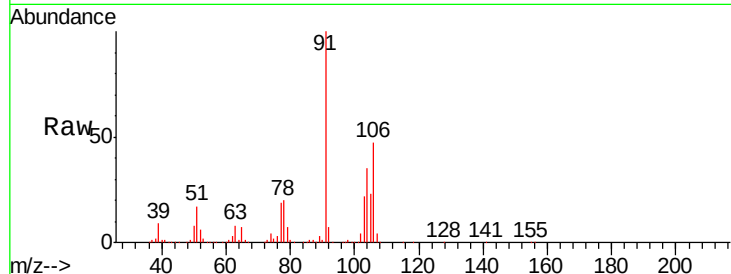
#69
o-Xylene
Concen: 50.222 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN052940.D
Acq: 17 Dec 2018 20:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:106 Resp: 984554
Ion Ratio Lower Upper
106 100
91 212.3 106.6 319.8

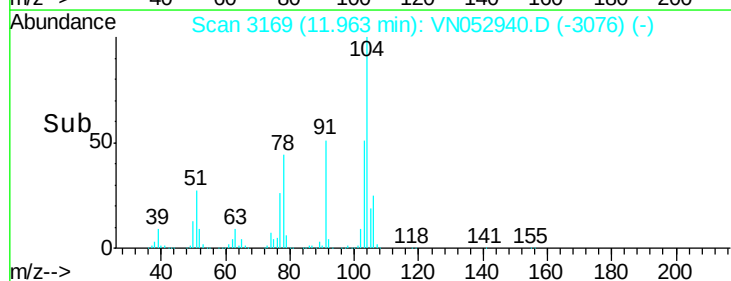
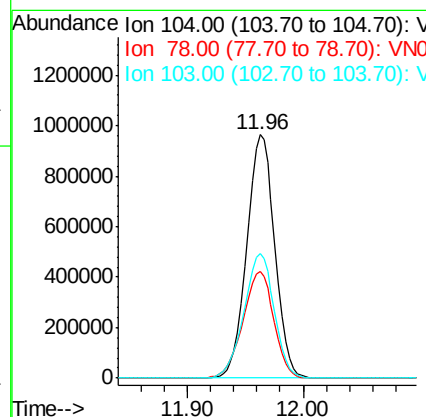
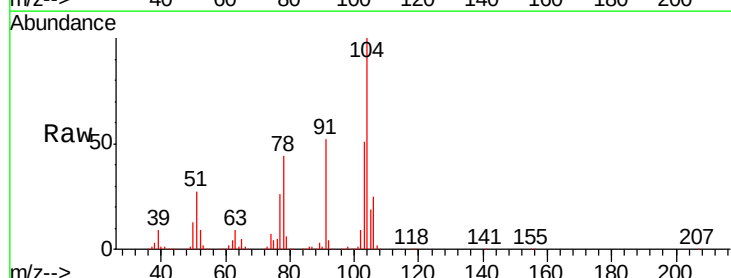
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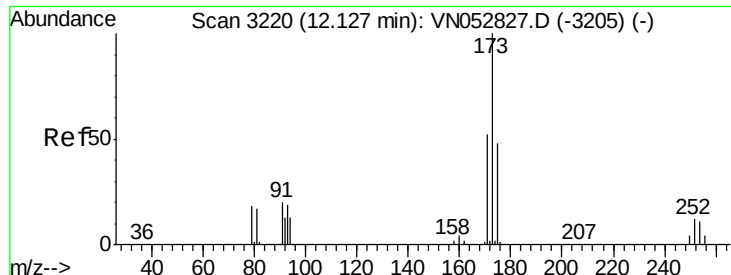
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#70
Styrene
Concen: 51.378 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN052940.D
Acq: 17 Dec 2018 20:58

Tgt Ion:104 Resp: 1619149
Ion Ratio Lower Upper
104 100
78 48.3 38.9 58.3
103 55.3 44.3 66.5





#71

Bromoform

Concen: 52.696 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. -0.00 min

Lab File: VN052940.D

Acq: 17 Dec 2018 20:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion:173 Resp: 387647

Ion Ratio Lower Upper

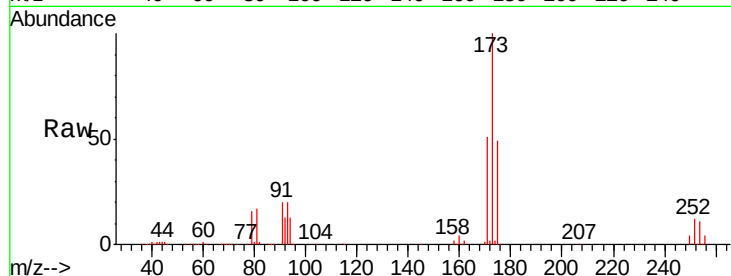
173 100

175 48.9 24.3 72.9

254 0.1 0.1 0.1#

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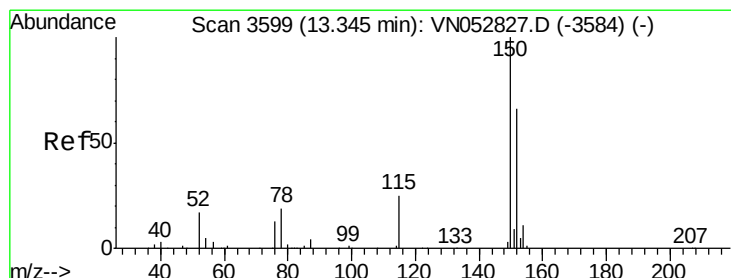
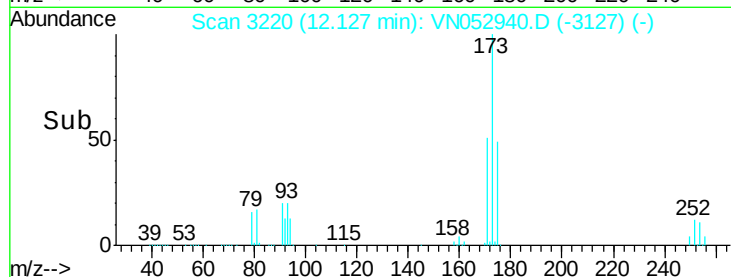
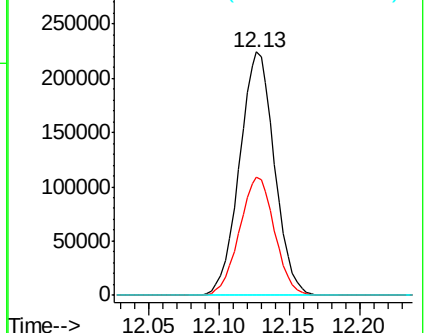
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Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. -0.00 min

Lab File: VN052940.D

Acq: 17 Dec 2018 20:58

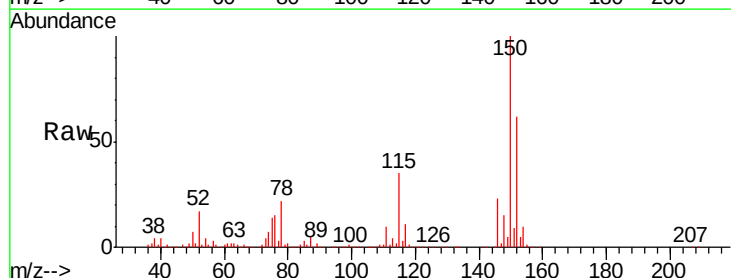
Tgt Ion:152 Resp: 717006

Ion Ratio Lower Upper

152 100

115 56.5 28.3 85.0

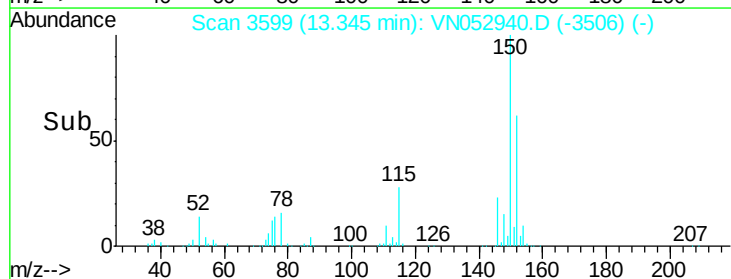
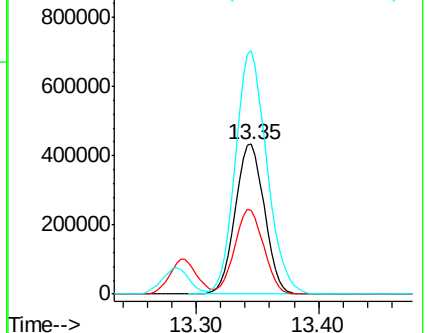
150 174.5 0.0 347.8

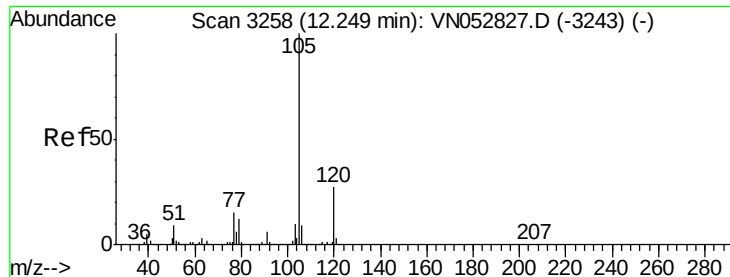


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 48.584 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN052940.D

Acq: 17 Dec 2018 20:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 105 Resp: 2600909

Ion Ratio Lower Upper

105 100

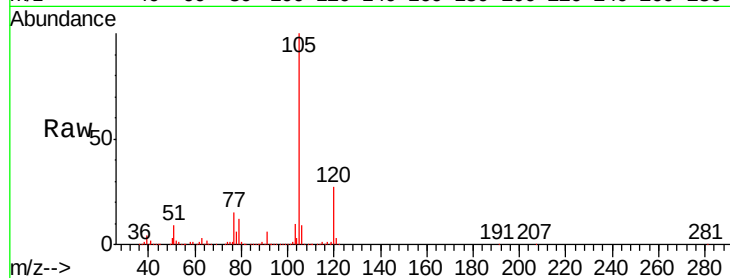
120 26.8 13.3 39.9

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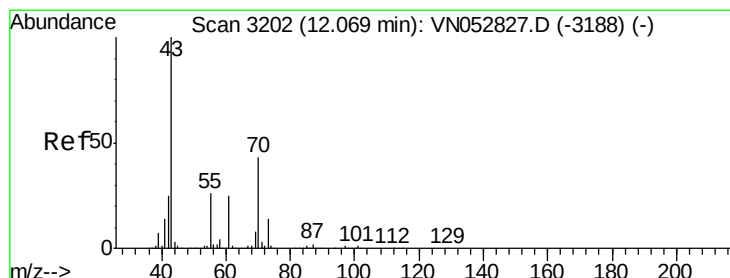
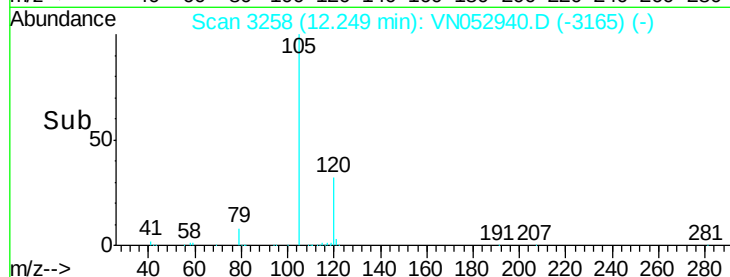
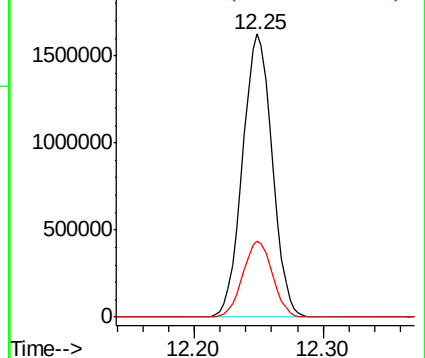
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 54.755 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN052940.D

Acq: 17 Dec 2018 20:58

Tgt Ion: 43 Resp: 804753

Ion Ratio Lower Upper

43 100

70 43.8 34.2 51.4

55 24.8 20.3 30.5

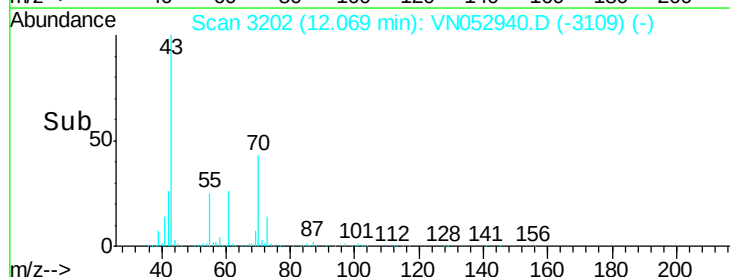
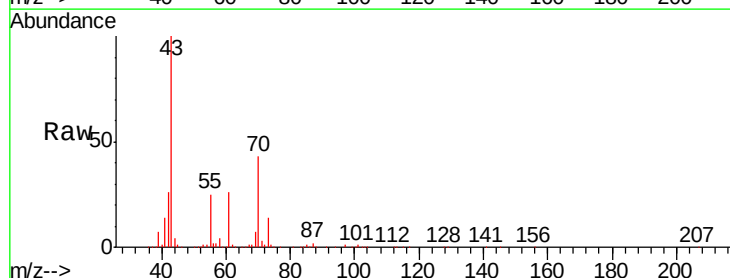
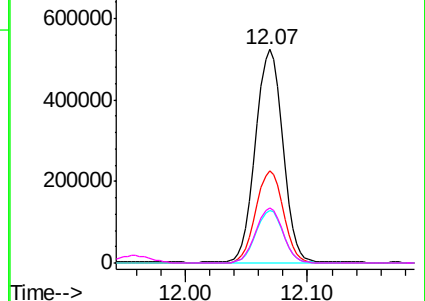
61 25.6 20.0 30.0

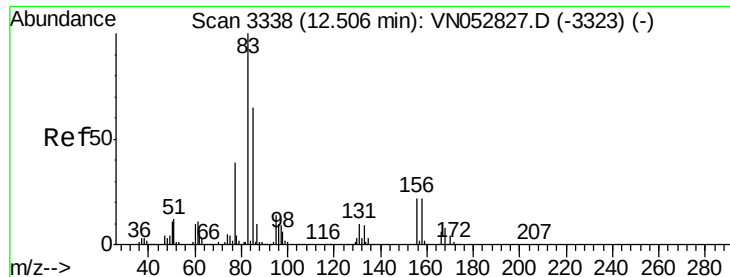
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 44.572 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN052940.D

Acq: 17 Dec 2018 20:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 83 Resp: 534763
Ion Ratio Lower Upper

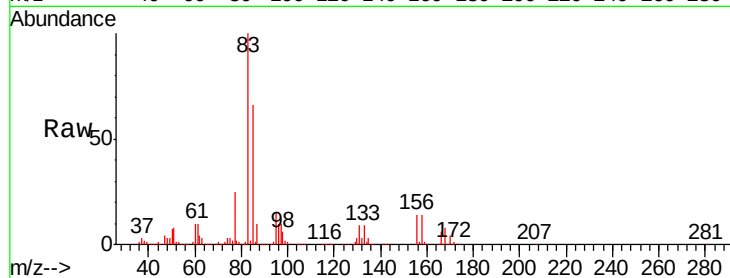
83 100

131 10.2 5.2 15.6

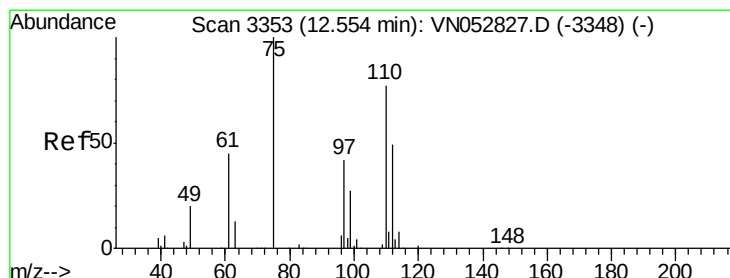
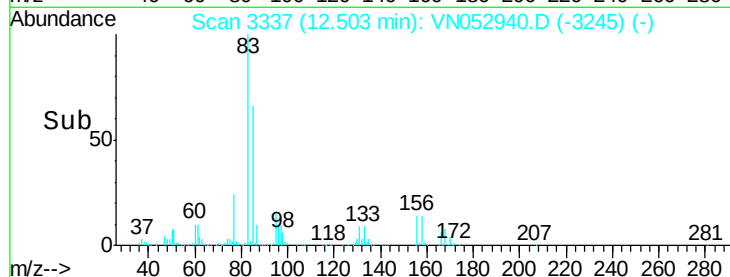
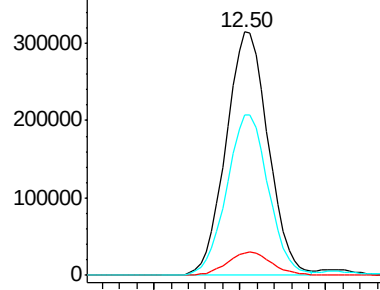
85 65.0 32.4 97.0

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Abundance Ion 82.90 (82.60 to 83.60): VN052827.D (-3323) (-)
Ion 130.80 (130.50 to 131.50): VN052827.D (-3323) (-)
Ion 84.90 (84.60 to 85.60): VN052827.D (-3323) (-)



#76

1,2,3-Trichloropropane

Concen: 48.650 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. -0.00 min

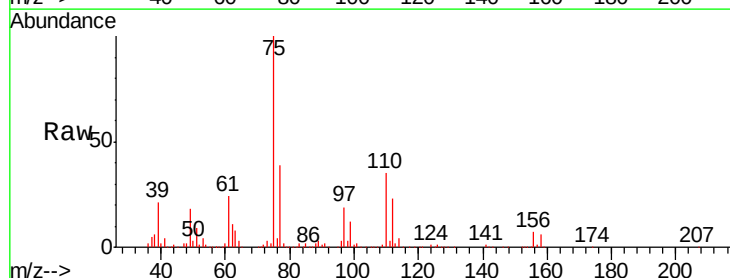
Lab File: VN052940.D

Acq: 17 Dec 2018 20:58

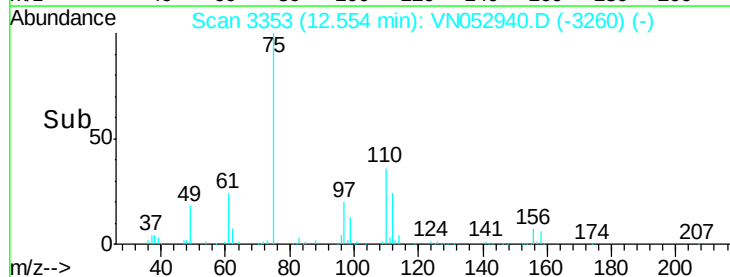
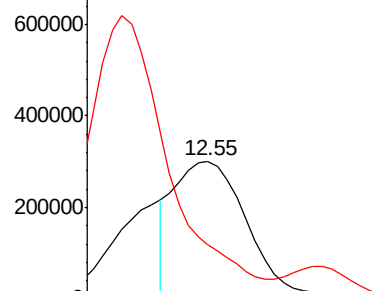
Tgt Ion: 75 Resp: 514653
Ion Ratio Lower Upper

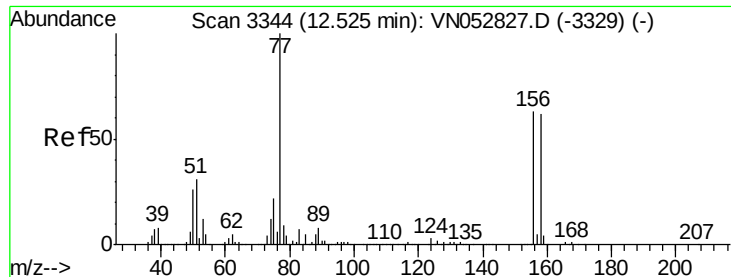
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN052827.D (-3348) (-)
Ion 77.00 (76.70 to 77.70): VN052827.D (-3348) (-)





#77

Bromobenzene

Concen: 49.443 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN052940.D

Acq: 17 Dec 2018 20:58

Instrument :

MSVOA_N

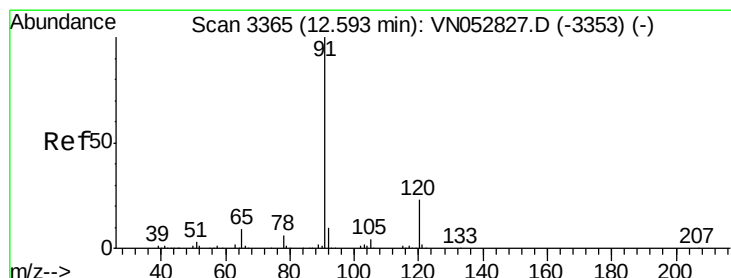
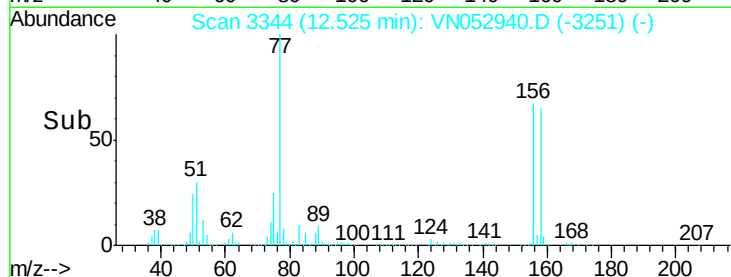
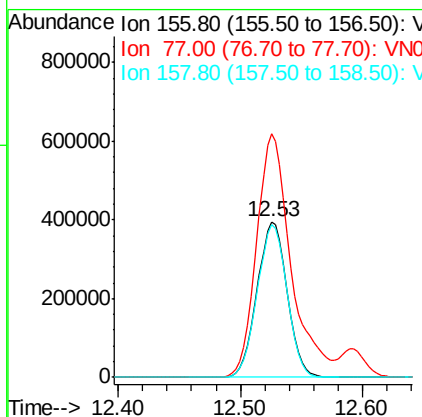
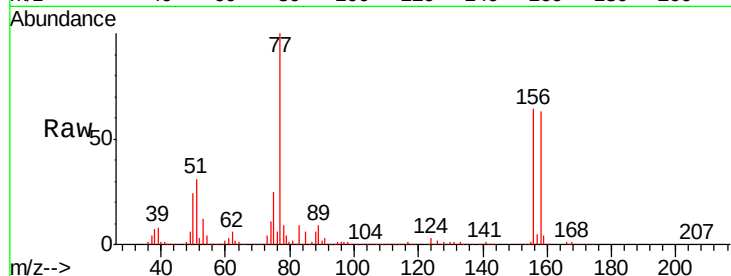
ClientSampleId :

VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
156	100		
77	178.0	91.3	273.8
158	97.1	49.0	147.2

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#78

n-propylbenzene

Concen: 48.841 ug/l

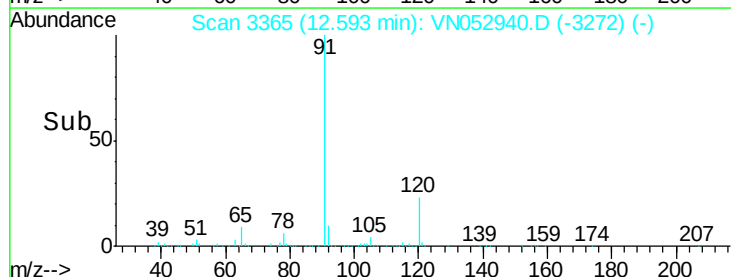
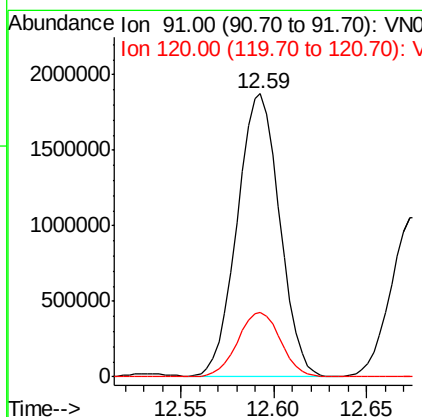
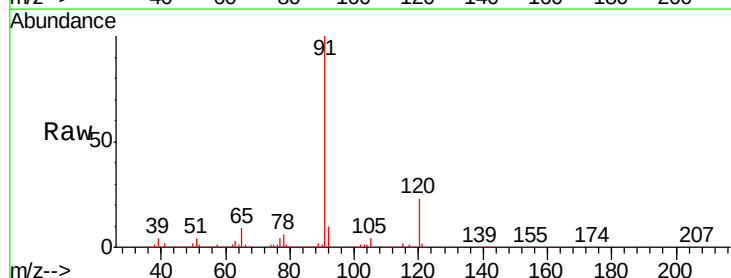
RT: 12.59 min Scan# 3365

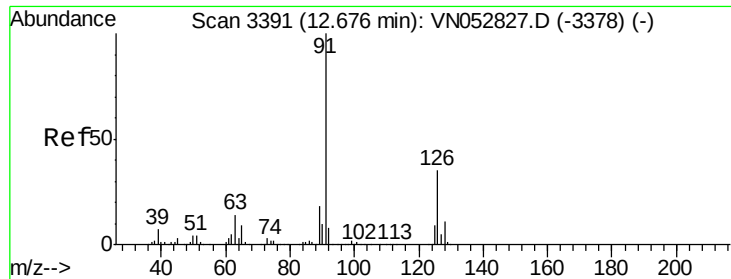
Delta R.T. -0.00 min

Lab File: VN052940.D

Acq: 17 Dec 2018 20:58

Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.1	11.5	34.5





#79

2-Chlorotoluene

Concen: 48.069 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. -0.00 min

Lab File: VN052940.D

Acq: 17 Dec 2018 20:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 91 Resp: 1735065

Ion Ratio Lower Upper

91 100

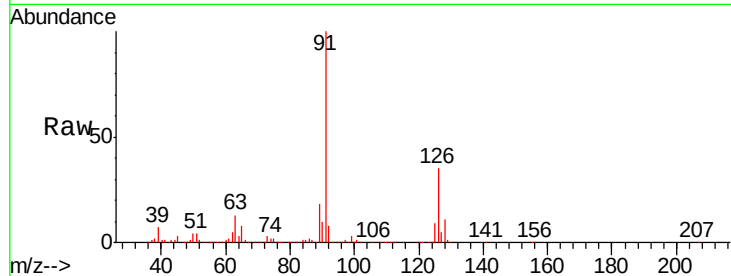
126 35.1 17.4 52.3

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

2000000

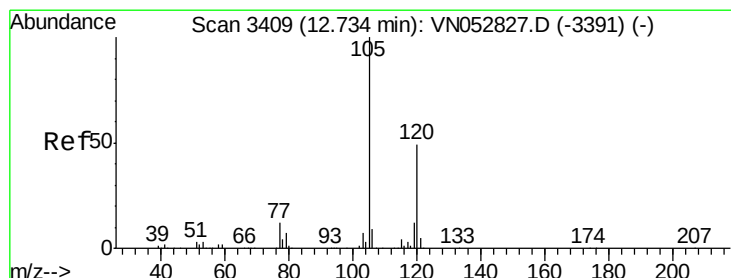
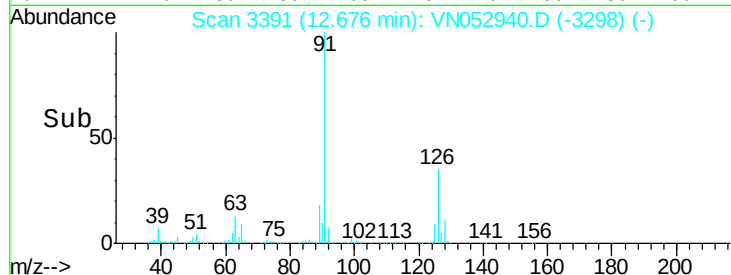
1500000

1000000

500000

0

Time--> 12.60 12.65 12.70



#80

1,3,5-Trimethylbenzene

Concen: 48.988 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.00 min

Lab File: VN052940.D

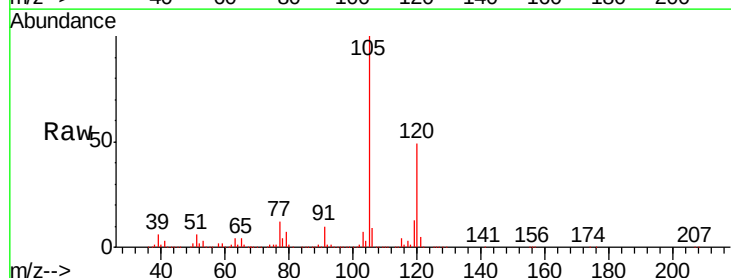
Acq: 17 Dec 2018 20:58

Tgt Ion: 105 Resp: 2117050

Ion Ratio Lower Upper

105 100

120 48.9 24.4 73.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

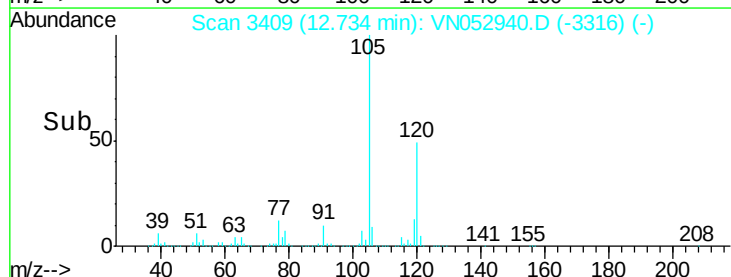
1500000

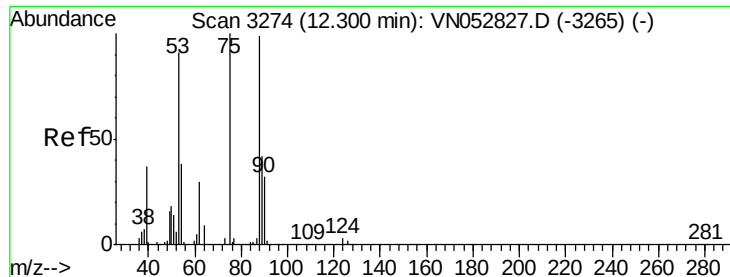
1000000

500000

0

Time--> 12.70 12.80





#81

trans-1,4-Dichloro-2-butene

Concen: 56.353 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. -0.00 min

Lab File: VN052940.D

Acq: 17 Dec 2018 20:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 75 Resp: 185567
Ion Ratio Lower Upper

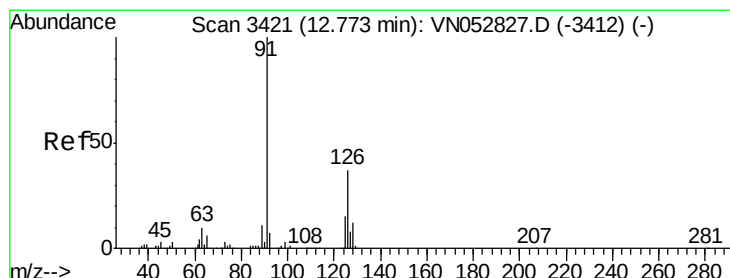
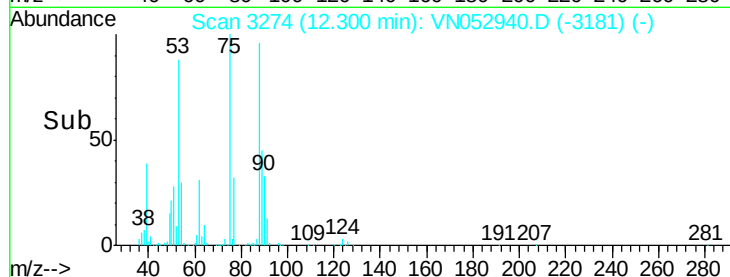
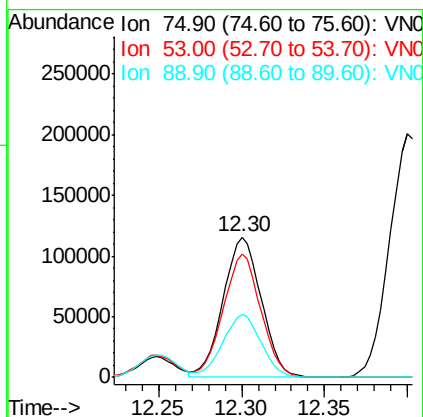
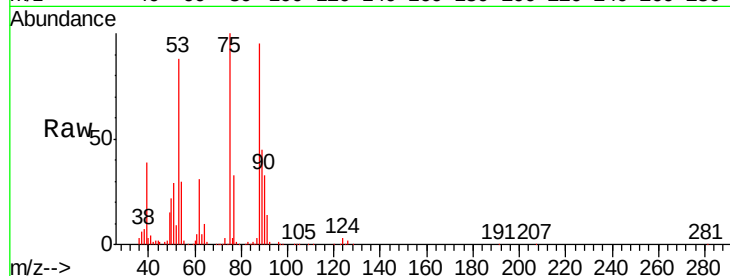
75 100

53 87.6 74.7 112.1

89 45.0 36.1 54.1

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#82

4-Chlorotoluene

Concen: 48.248 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. -0.00 min

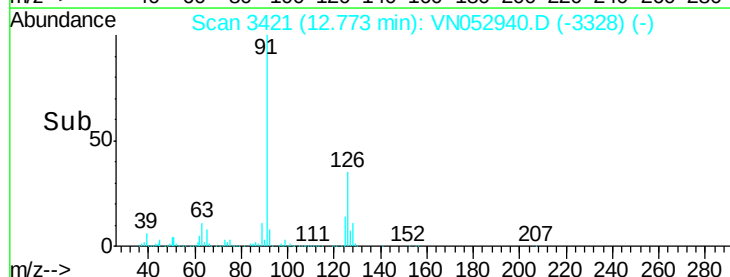
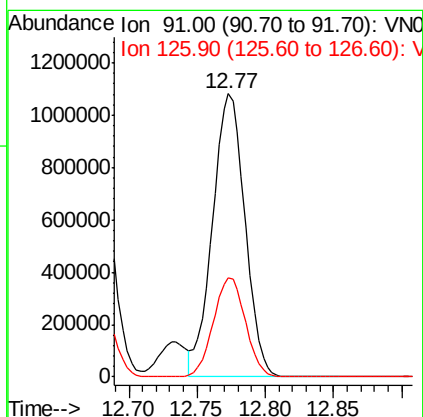
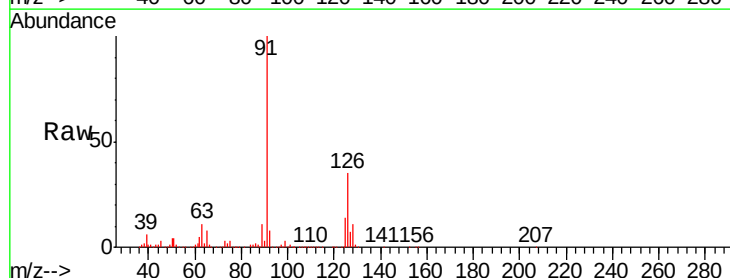
Lab File: VN052940.D

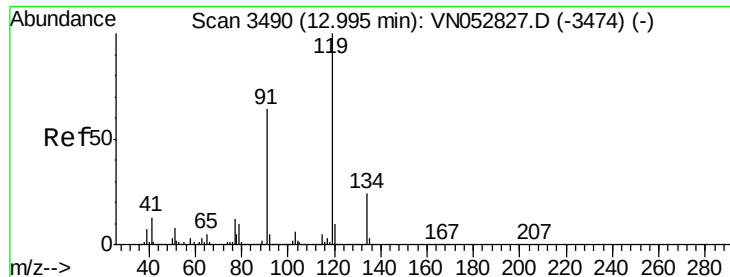
Acq: 17 Dec 2018 20:58

Tgt Ion: 91 Resp: 1780585
Ion Ratio Lower Upper

91 100

126 34.8 17.3 51.7





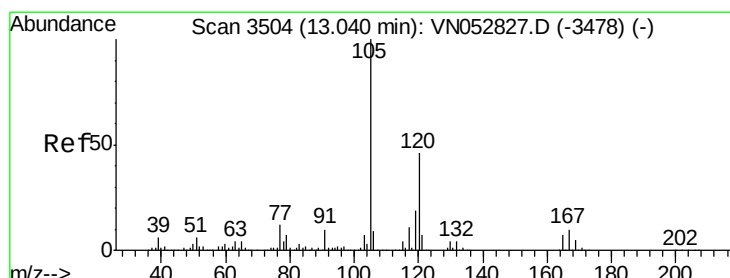
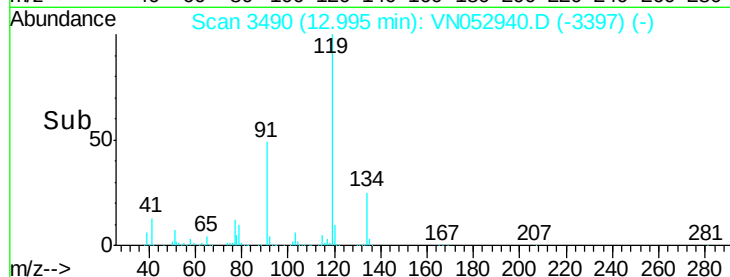
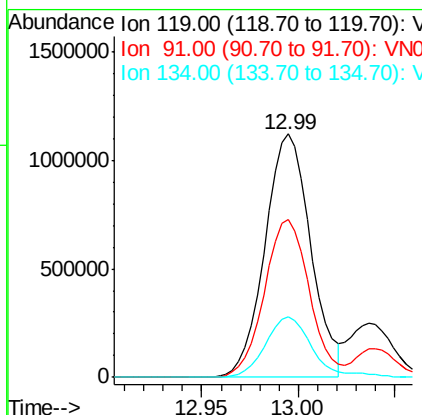
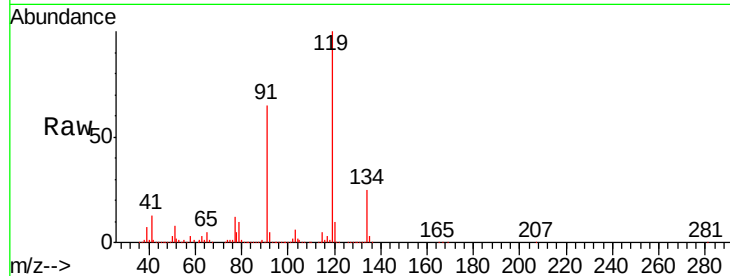
#83
 tert-Butylbenzene
 Concen: 48.362 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. -0.00 min
 Lab File: VN052940.D
 Acq: 17 Dec 2018 20:58

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion:119 Resp: 1843660
 Ion Ratio Lower Upper
 119 100
 91 63.9 31.9 95.5
 134 25.4 12.8 38.4

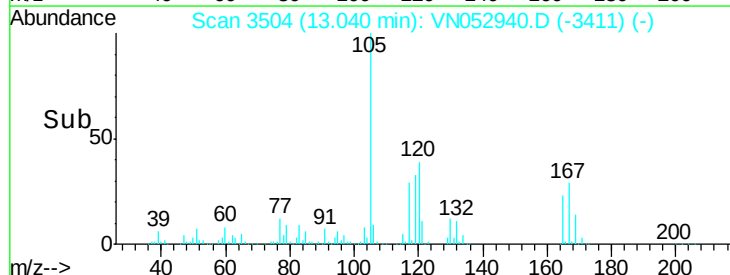
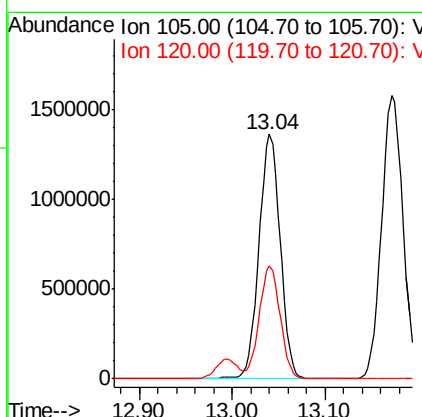
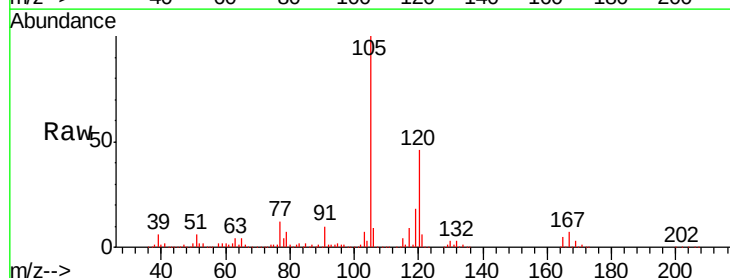
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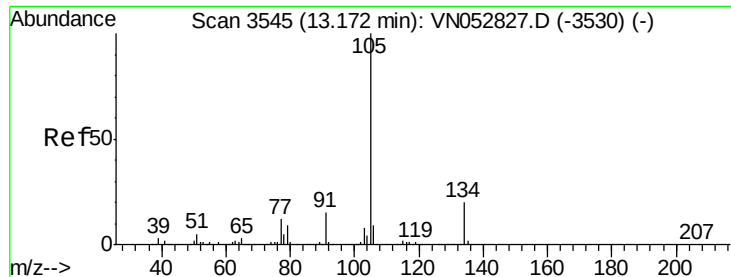
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#84
 1,2,4-Trimethylbenzene
 Concen: 49.476 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN052940.D
 Acq: 17 Dec 2018 20:58

Tgt Ion:105 Resp: 2164587
 Ion Ratio Lower Upper
 105 100
 120 45.9 22.9 68.8





#85

sec-Butylbenzene

Concen: 48.835 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN052940.D

Acq: 17 Dec 2018 20:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion:105 Resp: 2521211

Ion Ratio Lower Upper

105 100

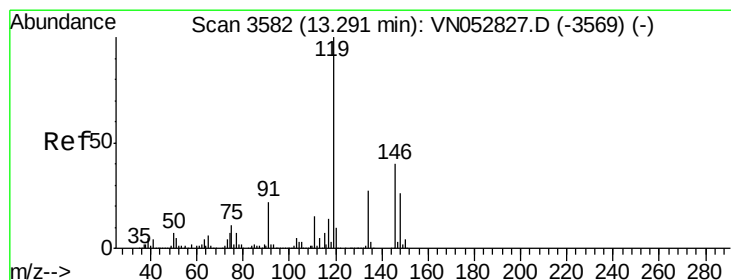
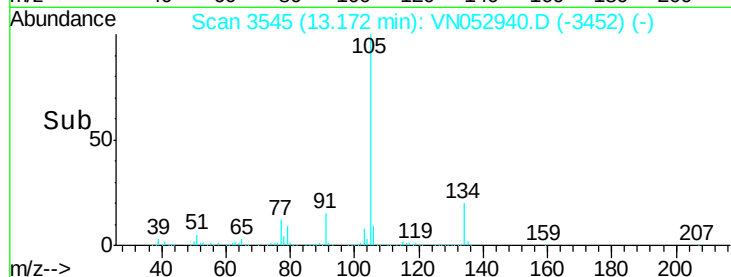
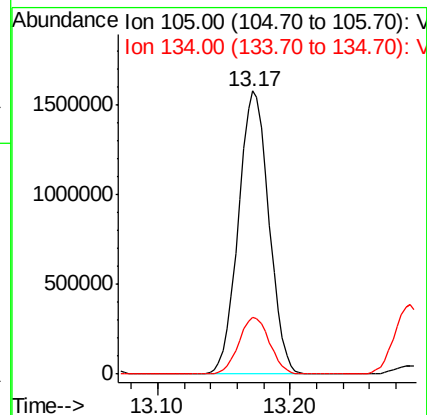
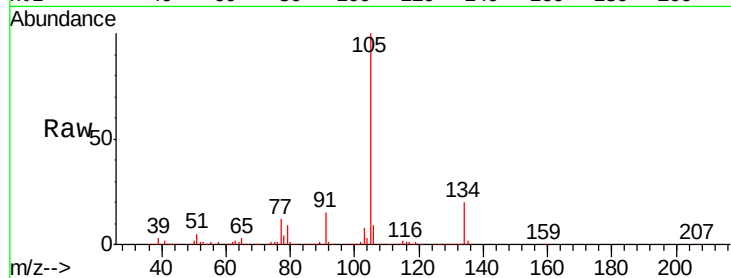
134 20.4 10.1 30.3

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 49.240 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. -0.00 min

Lab File: VN052940.D

Acq: 17 Dec 2018 20:58

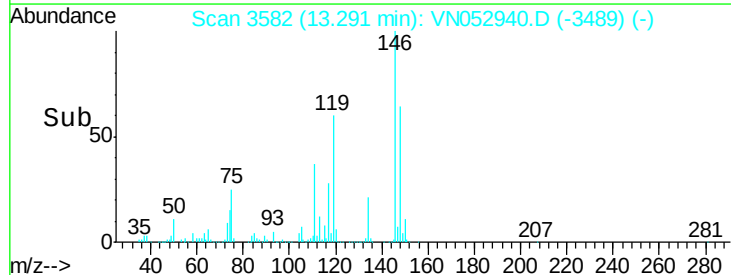
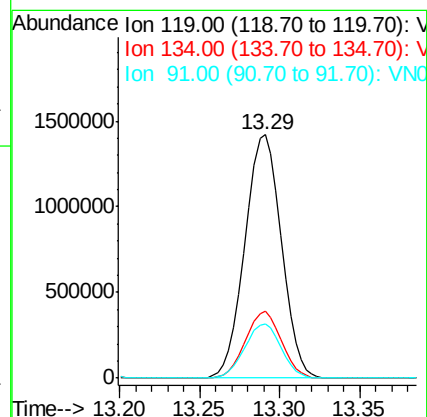
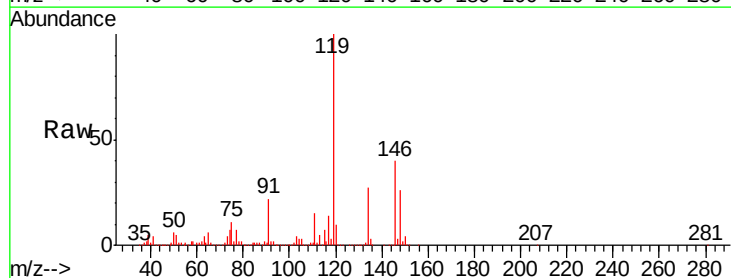
Tgt Ion:119 Resp: 2202426

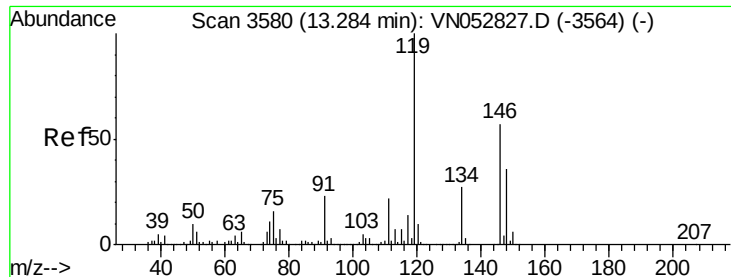
Ion Ratio Lower Upper

119 100

134 27.0 13.4 40.2

91 22.3 11.1 33.3





#87

1,3-Dichlorobenzene

Concen: 48.815 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.00 min

Lab File: VN052940.D

Acq: 17 Dec 2018 20:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion:146 Resp: 1181182

Ion Ratio Lower Upper

146 100

111 37.5 19.1 57.1

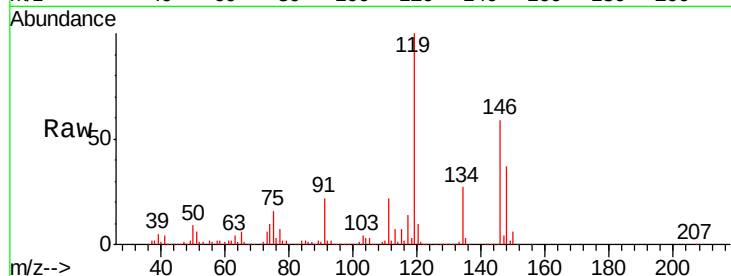
148 63.6 32.0 96.0

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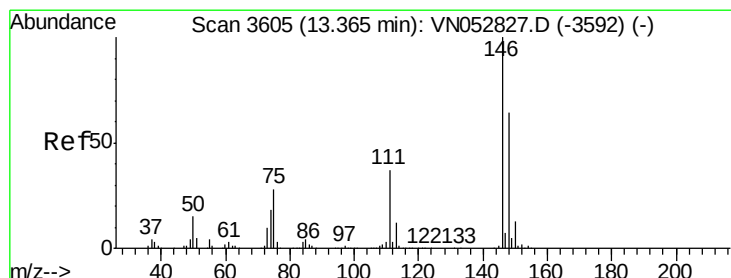
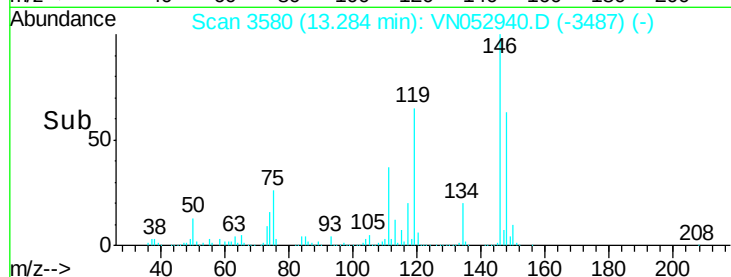
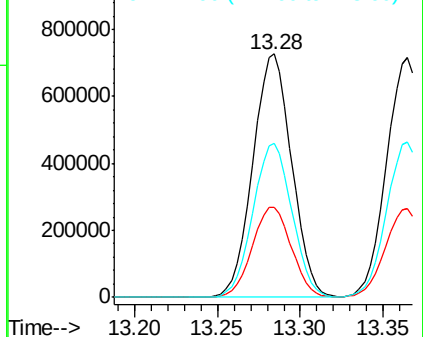
12/18/2018 1:33:37 PM



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: 48.458 ug/l

RT: 13.36 min Scan# 3605

Delta R.T. -0.00 min

Lab File: VN052940.D

Acq: 17 Dec 2018 20:58

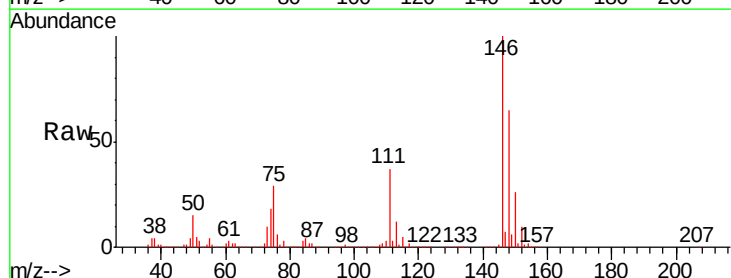
Tgt Ion:146 Resp: 1161174

Ion Ratio Lower Upper

146 100

111 37.6 18.6 55.8

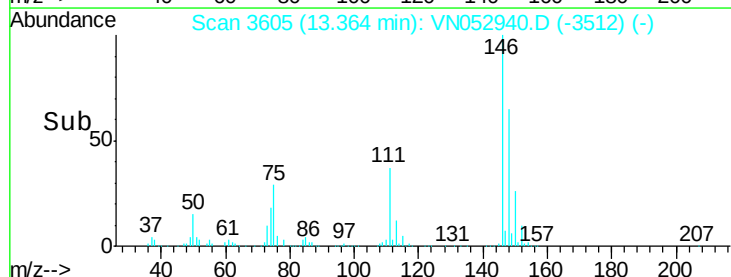
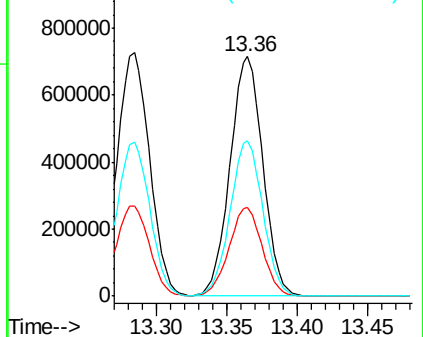
148 64.8 32.1 96.5

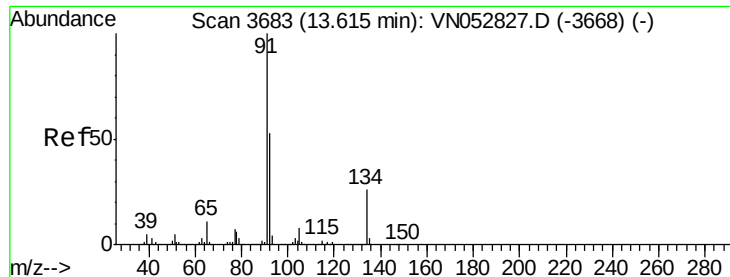


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#89

n-Butylbenzene

Concen: 49.866 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. -0.00 min

Lab File: VN052940.D

Acq: 17 Dec 2018 20:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 91 Resp: 1877668

Ion Ratio Lower Upper

91 100

92 52.9 26.3 78.9

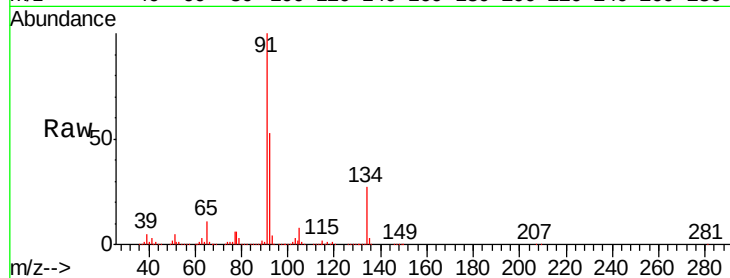
134 27.0 13.3 39.8

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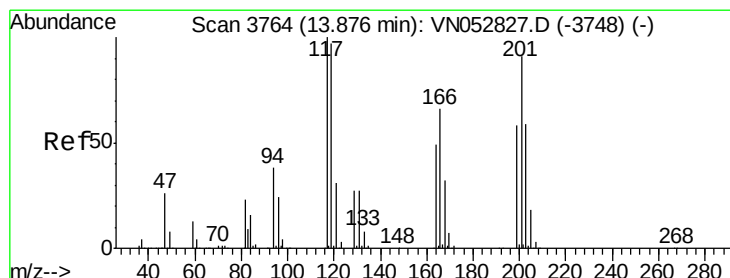
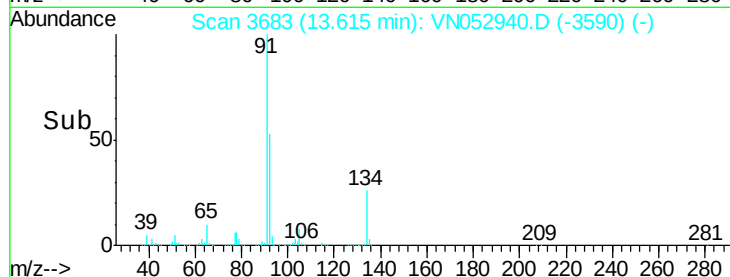
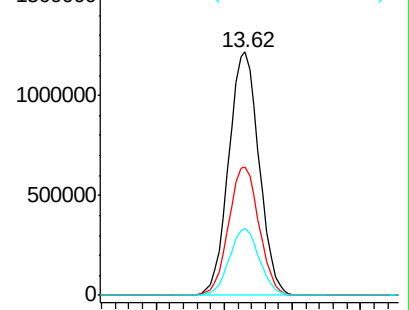
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Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 92.00 (91.70 to 92.70): VN0

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 44.927 ug/l

RT: 13.88 min Scan# 3764

Delta R.T. -0.00 min

Lab File: VN052940.D

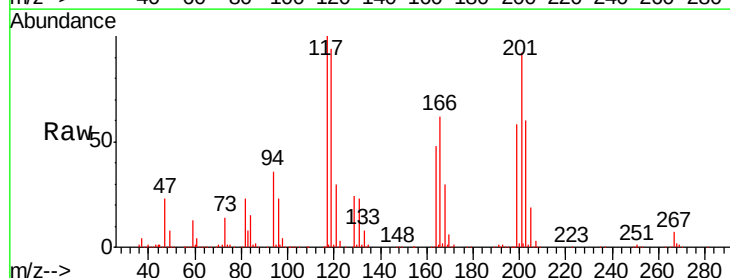
Acq: 17 Dec 2018 20:58

Tgt Ion: 117 Resp: 336492

Ion Ratio Lower Upper

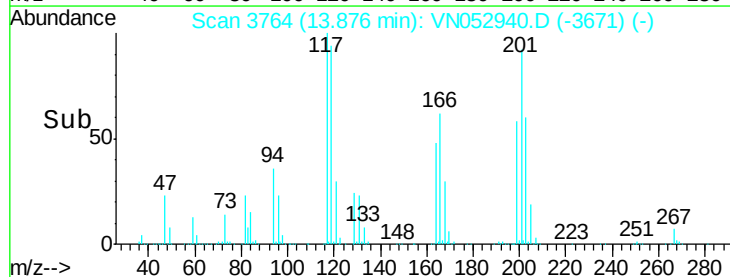
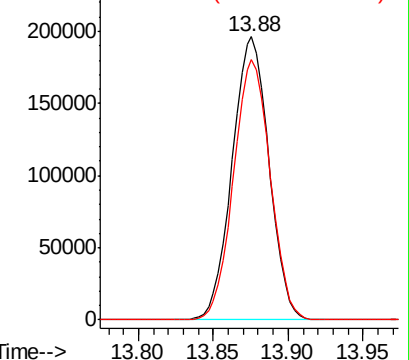
117 100

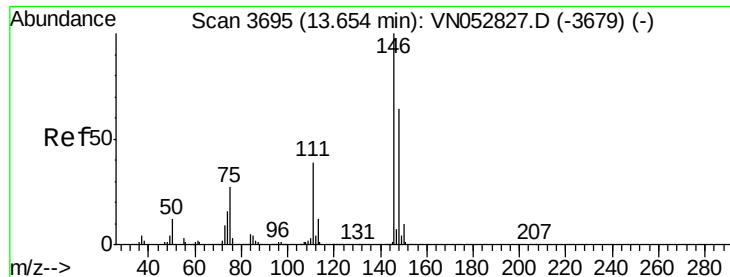
201 91.4 45.7 137.1



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V





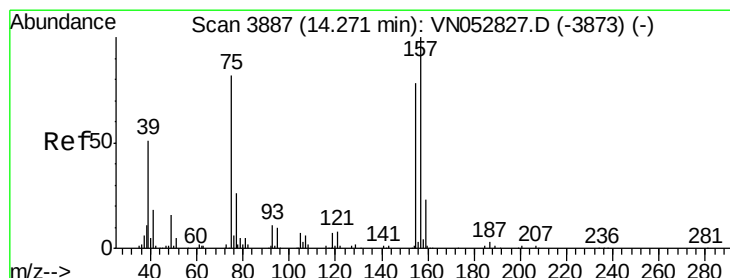
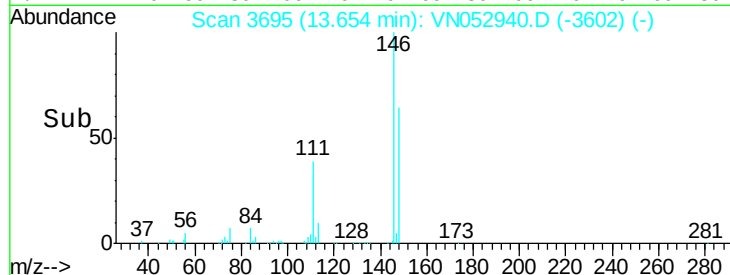
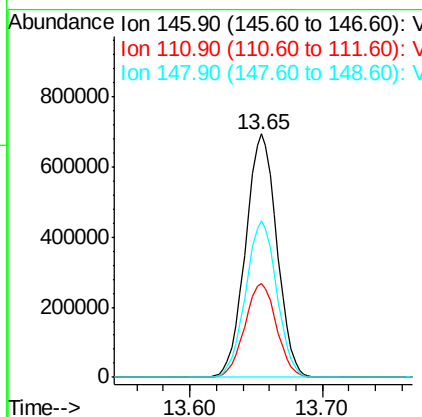
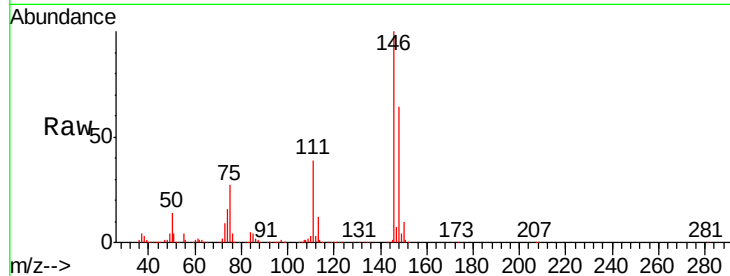
#91
 1,2-Dichlorobenzene
 Concen: 48.835 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. -0.00 min
 Lab File: VN052940.D
 Acq: 17 Dec 2018 20:58

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion: 146 Resp: 1136671
 Ion Ratio Lower Upper
 146 100
 111 38.9 19.7 59.0
 148 64.0 32.0 96.0

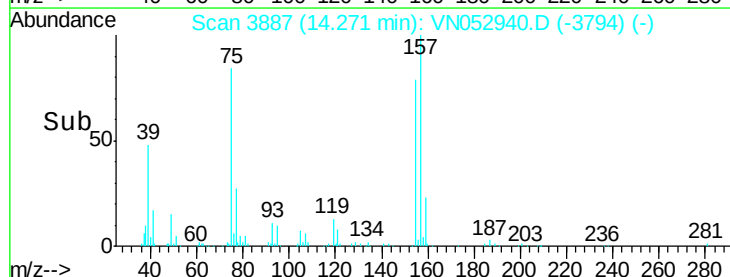
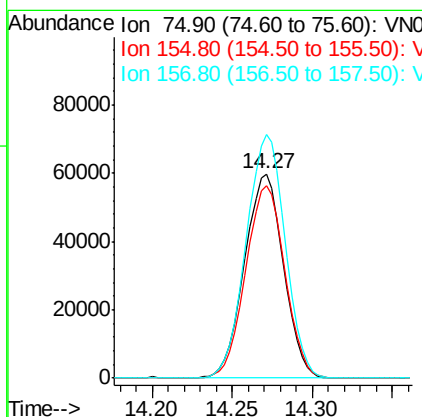
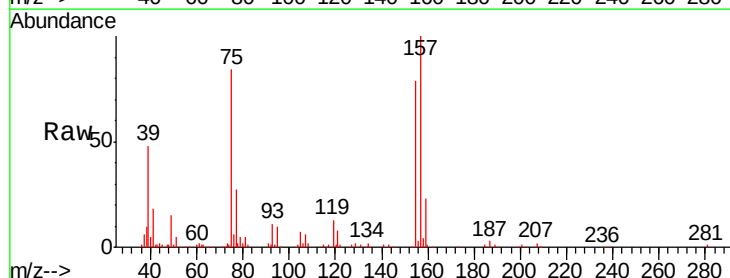
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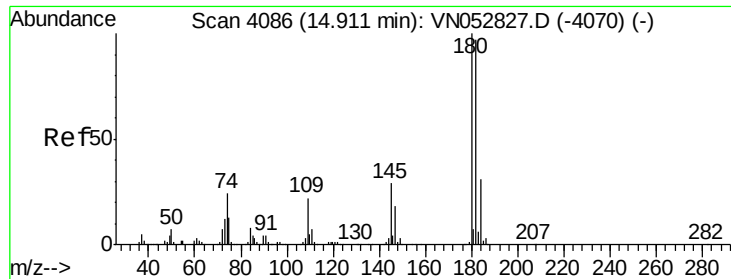
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 55.103 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. -0.00 min
 Lab File: VN052940.D
 Acq: 17 Dec 2018 20:58

Tgt Ion: 75 Resp: 99656
 Ion Ratio Lower Upper
 75 100
 155 94.5 48.2 144.6
 157 119.4 61.2 183.5





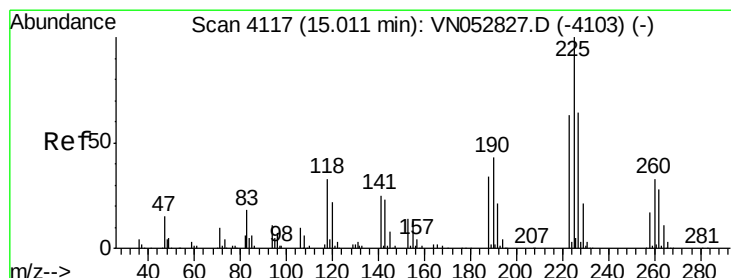
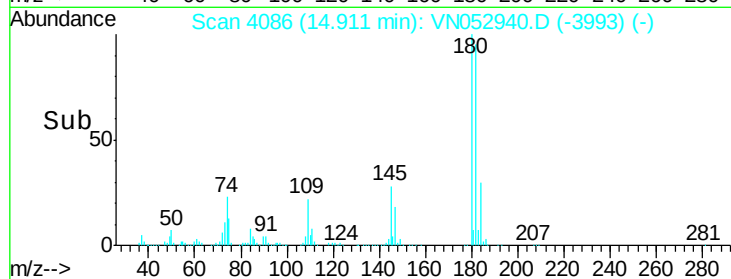
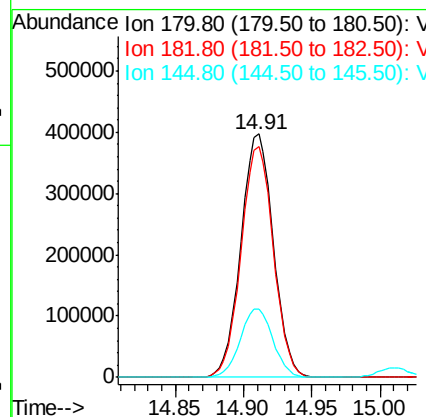
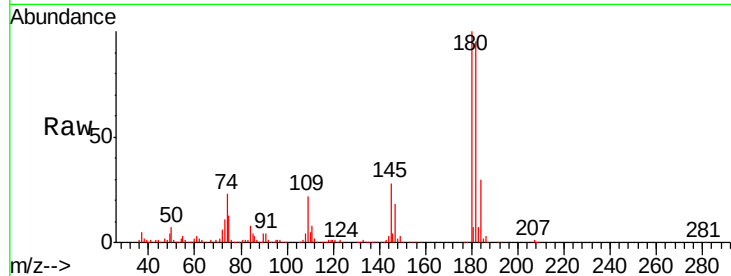
#93
 1,2,4-Trichlorobenzene
 Concen: 51.826 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. -0.00 min
 Lab File: VN052940.D
 Acq: 17 Dec 2018 20:58

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	655729		
182	94.3	47.8	143.3	
145	28.3	14.2	42.6	

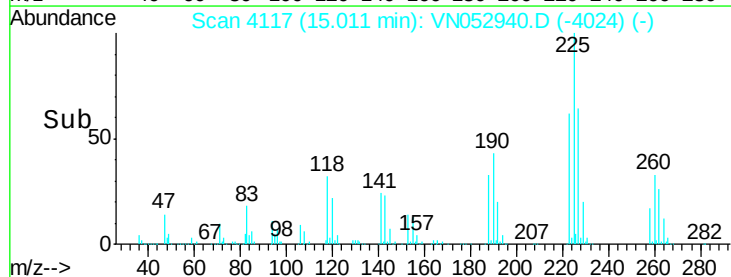
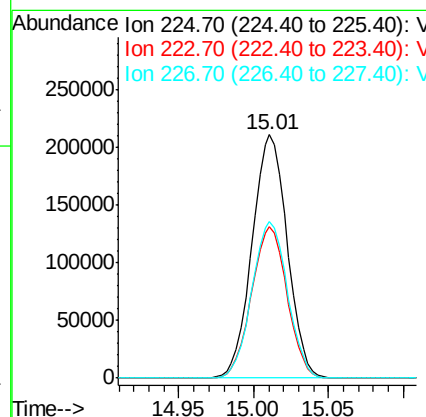
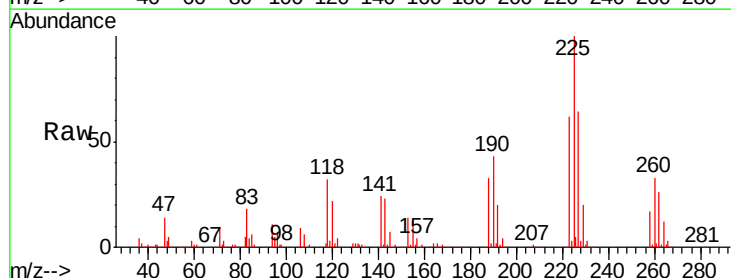
Manual Integrations
 APPROVED

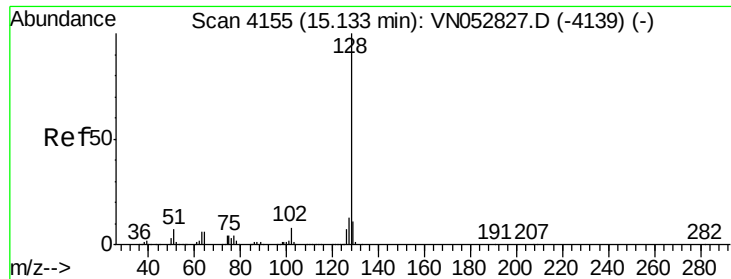
MMDadoda
 12/18/2018 1:33:37 PM



#94
 Hexachlorobutadiene
 Concen: 46.975 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. -0.00 min
 Lab File: VN052940.D
 Acq: 17 Dec 2018 20:58

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	344022		
223	62.8	31.5	94.5	
227	65.2	31.9	95.7	





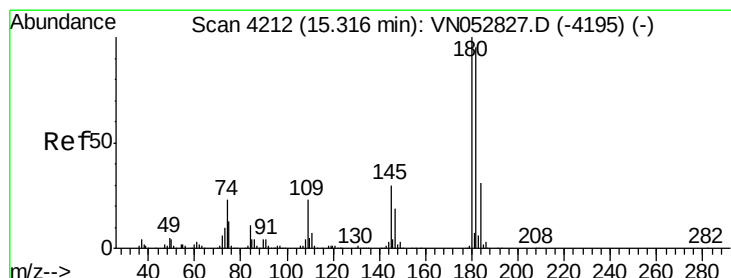
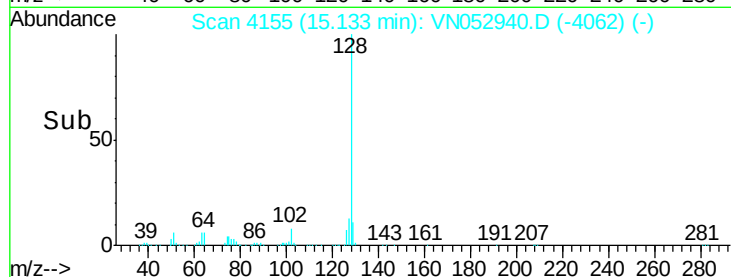
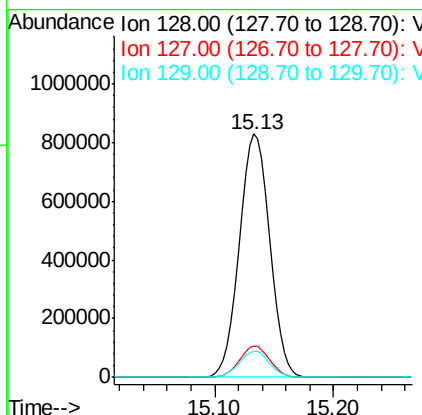
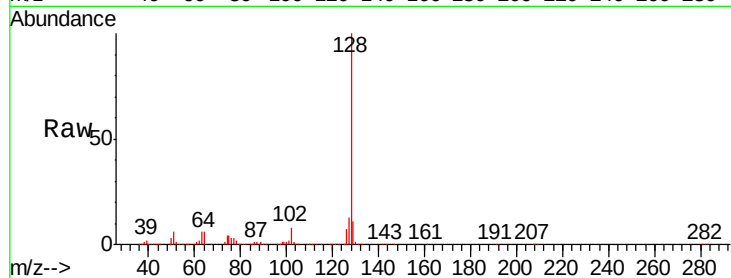
#95
Naphthalene
Concen: 56.081 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN052940.D
Acq: 17 Dec 2018 20:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:128 Resp: 1469600
Ion Ratio Lower Upper
128 100
127 12.7 10.2 15.4
129 10.8 8.6 13.0

Manual Integrations
APPROVED

MMDadoda
12/18/2018 1:33:37 PM



#96
1,2,3-Trichlorobenzene
Concen: 49.873 ug/l
RT: 15.32 min Scan# 4212
Delta R.T. -0.00 min
Lab File: VN052940.D
Acq: 17 Dec 2018 20:58

Tgt Ion:180 Resp: 579010
Ion Ratio Lower Upper
180 100
182 95.6 47.9 143.7
145 30.0 15.0 45.0

