

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061319\
 Data File : VN056273.D
 Acq On : 13 Jun 2019 11:27
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 6/14/2019 9:37:04 AM

Quant Time: Jun 14 01:19:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N060419W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 04 11:02:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	336720	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	503548	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	453142	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	200558	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.02	65	184609	55.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.44%	
35) Dibromofluoromethane	7.59	113	167177	54.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.22%	
50) Toluene-d8	10.09	98	617180	51.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.84%	
62) 4-Bromofluorobenzene	12.40	95	213758	52.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.74%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	179404	48.509	ug/l	98
3) Chloromethane	2.06	50	194518	53.292	ug/l	99
4) Vinyl Chloride	2.18	62	194396	53.094	ug/l	98
5) Bromomethane	2.53	94	115973	50.143	ug/l	98
6) Chloroethane	2.68	64	110341	51.978	ug/l	99
7) Trichlorofluoromethane	3.00	101	246340	52.703	ug/l	100
8) Diethyl Ether	3.40	74	97046	50.488	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.74	101	160116	56.392	ug/l	98
10) Methyl Iodide	3.94	142	224080	49.662	ug/l	99
11) Tert butyl alcohol	4.81	59	149414	256.807	ug/l	100
12) 1,1-Dichloroethene	3.72	96	148427	52.508	ug/l	99
13) Acrolein	3.60	56	40995	244.309	ug/l	96
14) Allyl chloride	4.31	41	246760	55.284	ug/l	99
15) Acrylonitrile	4.99	53	422457	298.282	ug/l	100
16) Acetone	3.82	43	446441	279.197	ug/l	100
17) Carbon Disulfide	4.04	76	332958	49.195	ug/l	100
18) Methyl Acetate	4.32	43	195164	62.278	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	489506	54.328	ug/l	99
20) Methylene Chloride	4.54	84	175027	53.129	ug/l	98
21) trans-1,2-Dichloroethene	5.03	96	157161	51.890	ug/l	100
22) Diisopropyl ether	5.95	45	514306	55.741	ug/l	99
23) Vinyl Acetate	5.89	43	2080609	286.344	ug/l	100
24) 1,1-Dichloroethane	5.84	63	298129	56.015	ug/l	100
25) 2-Butanone	6.84	43	596684	295.343	ug/l	99
26) 2,2-Dichloropropane	6.82	77	215161	51.807	ug/l	99
27) cis-1,2-Dichloroethene	6.82	96	188547	52.960	ug/l	98
28) Bromochloromethane	7.19	49	145853	57.948	ug/l	95
29) Tetrahydrofuran	7.21	42	365480	292.657	ug/l	98
30) Chloroform	7.37	83	301371	56.288	ug/l	98
31) Cyclohexane	7.65	56	269096	50.723	ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	245882	54.994	ug/l	98
36) 1,1-Dichloropropene	7.79	75	217447	50.221	ug/l	99
37) Ethyl Acetate	6.93	43	218617	56.747	ug/l	99
38) Carbon Tetrachloride	7.77	117	212407	53.210	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	275504	51.079	ug/l	100
40) Benzene	8.04	78	681272	51.805	ug/l	100
41) Methacrylonitrile	7.17	41	108328	61.116	ug/l	99
42) 1,2-Dichloroethane	8.12	62	222621	52.628	ug/l	100
43) Isopropyl Acetate	8.17	43	333674	53.449	ug/l #	92
44) Trichloroethene	8.83	130	189210	50.071	ug/l	99
45) 1,2-Dichloropropane	9.12	63	184800	54.862	ug/l	100
46) Dibromomethane	9.21	93	120019	54.487	ug/l	97
47) Bromodichloromethane	9.40	83	232029	58.121	ug/l	98
48) Methyl methacrylate	9.20	41	174064	56.992	ug/l	98
49) 1,4-Dioxane	9.20	88	70492	1069.100	ug/l	96
51) 4-Methyl-2-Pentanone	9.99	43	1102941	282.519	ug/l	99
52) Toluene	10.15	92	425713	52.023	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	233322	49.856	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	271751	56.630	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	175645	54.187	ug/l	97
56) Ethyl methacrylate	10.43	69	259538	54.883	ug/l	98
57) 1,3-Dichloropropane	10.71	76	290747	55.176	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	418148	224.623	ug/l	98
59) 2-Hexanone	10.75	43	798650	282.259	ug/l	99
60) Dibromochloromethane	10.90	129	186400	52.035	ug/l	99
61) 1,2-Dibromoethane	11.00	107	182273	55.005	ug/l	100
64) Tetrachloroethene	10.63	164	183612	46.811	ug/l	99
65) Chlorobenzene	11.43	112	468562	51.956	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	174425	56.014	ug/l	100
67) Ethyl Benzene	11.51	91	812197	51.793	ug/l	100
68) m/p-Xylenes	11.62	106	618178	103.192	ug/l	99
69) o-Xylene	11.95	106	302537	51.341	ug/l	98
70) Styrene	11.96	104	512809	54.772	ug/l	100
71) Bromoform	12.13	173	137247	52.361	ug/l #	100
73) Isopropylbenzene	12.25	105	805633	56.678	ug/l	100
74) N-amyl acetate	12.07	43	284702	53.253	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.50	83	247442	53.147	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	197209m	53.439	ug/l	
77) Bromobenzene	12.53	156	211813	49.329	ug/l	99
78) n-propylbenzene	12.59	91	886443	52.245	ug/l	100
79) 2-Chlorotoluene	12.67	91	536919	57.395	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	674672	50.032	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	60909	54.965	ug/l	89
82) 4-Chlorotoluene	12.77	91	526850	53.075	ug/l	100
83) tert-Butylbenzene	12.99	119	586472	56.403	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	658704	51.511	ug/l	99
85) sec-Butylbenzene	13.17	105	771021	51.313	ug/l	100
86) p-Isopropyltoluene	13.29	119	695630	51.729	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	349231	52.550	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	334131	52.266	ug/l	100
89) n-Butylbenzene	13.61	91	538560	54.062	ug/l	99
90) Hexachloroethane	13.87	117	118772	58.565	ug/l	92
91) 1,2-Dichlorobenzene	13.65	146	342825	51.095	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	39253	58.945	ug/l	99

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QLast Update : Tue Jun 04 11:02:09 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	159186	43.647	ug/l	97
94) Hexachlorobutadiene	15.01	225	127991	55.863	ug/l	99
95) Naphthalene	15.13	128	410666	43.364	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	172080	45.930	ug/l	99

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

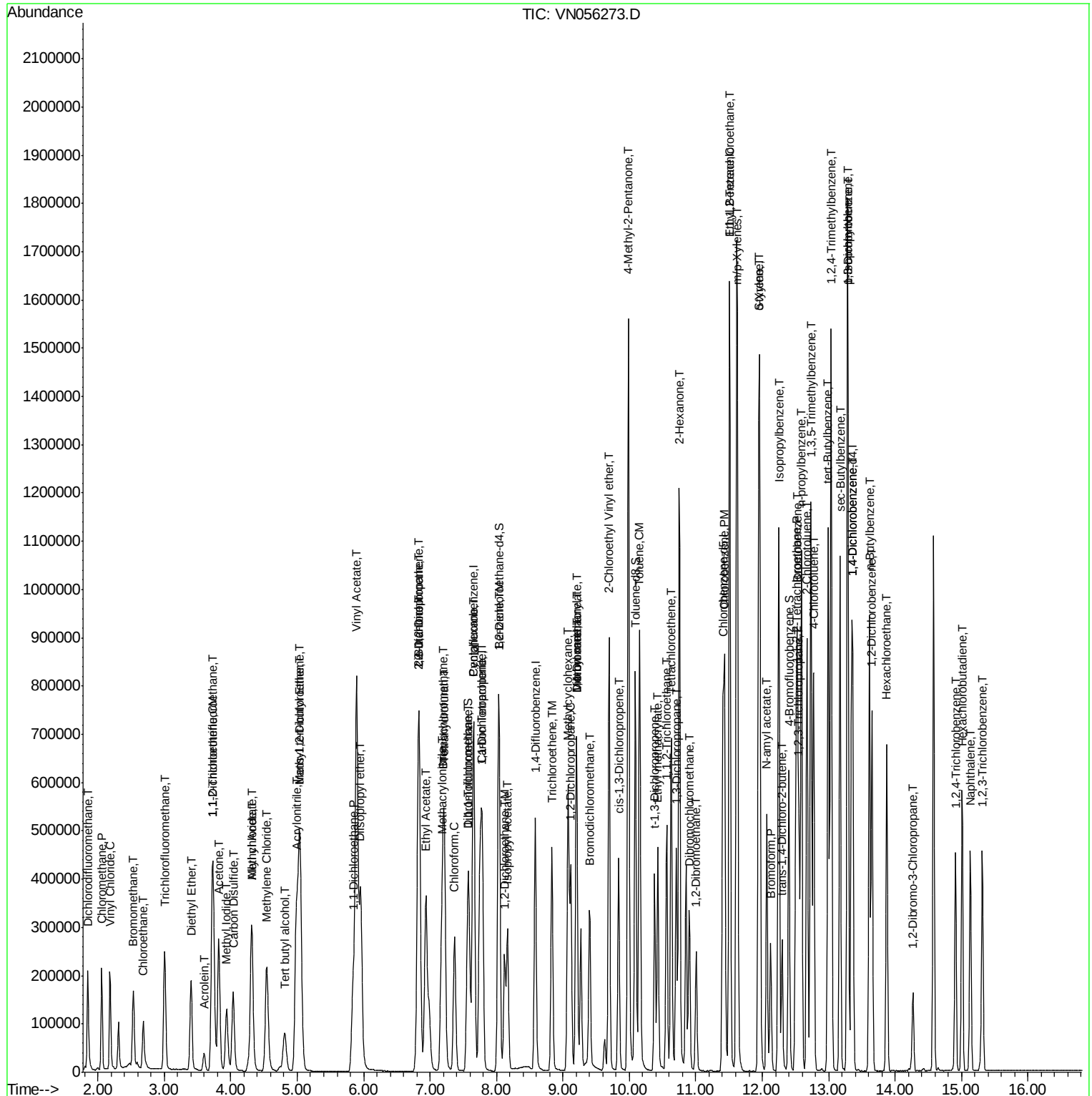
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Data File : VN056273.D
Acq On : 13 Jun 2019 11:27
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN056273.D

Acq: 13 Jun 2019 11:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 336720

Ion Ratio Lower Upper

168 100

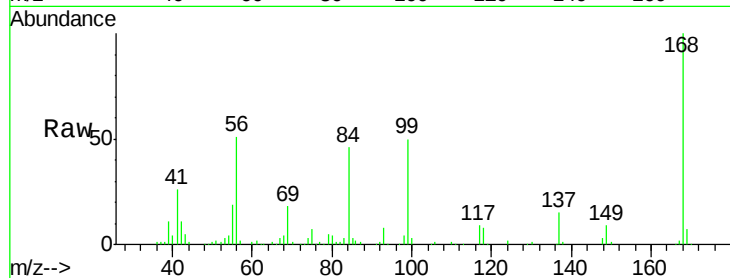
99 49.4 37.2 55.8

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

150000

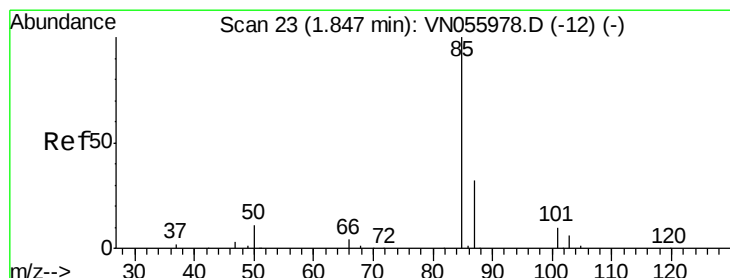
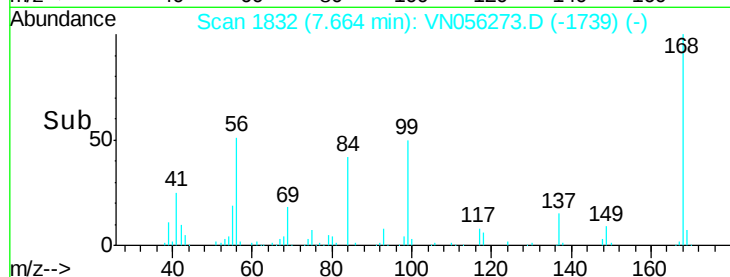
100000

50000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 48.509 ug/l

RT: 1.85 min Scan# 23

Delta R.T. 0.00 min

Lab File: VN056273.D

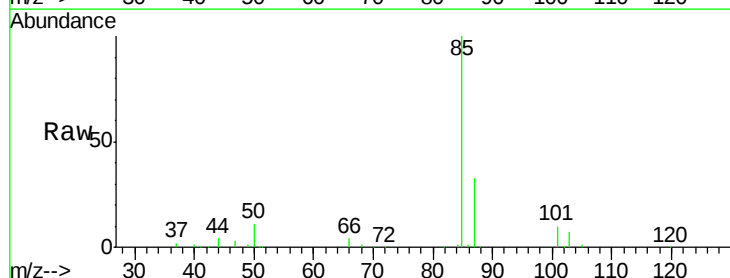
Acq: 13 Jun 2019 11:27

Tgt Ion: 85 Resp: 179404

Ion Ratio Lower Upper

85 100

87 33.2 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

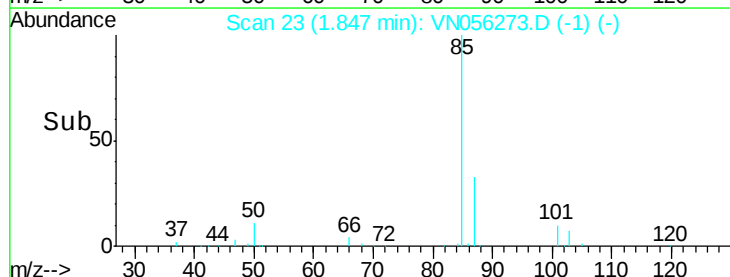
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50000

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1.80 1.90 2.00

Time-->





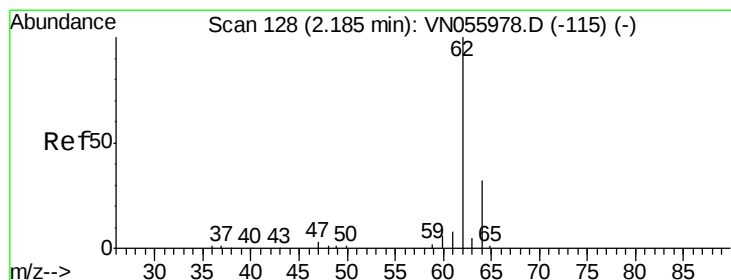
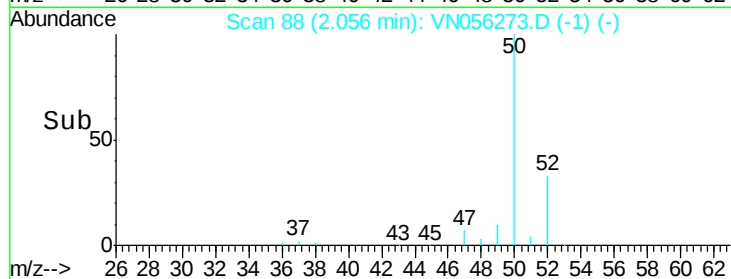
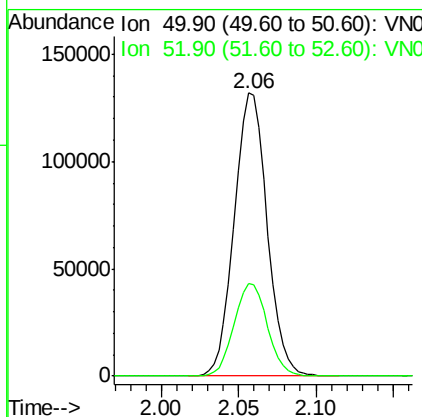
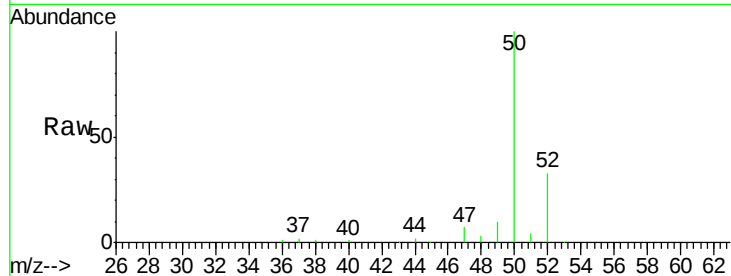
#3
Chloromethane
Concen: 53.292 ug/l
RT: 2.06 min Scan# 88
Delta R.T. -0.00 min
Lab File: VN056273.D
Acq: 13 Jun 2019 11:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
50	100		
52	32.7	26.6	40.0

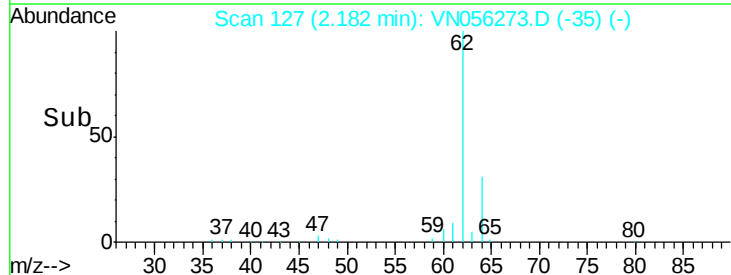
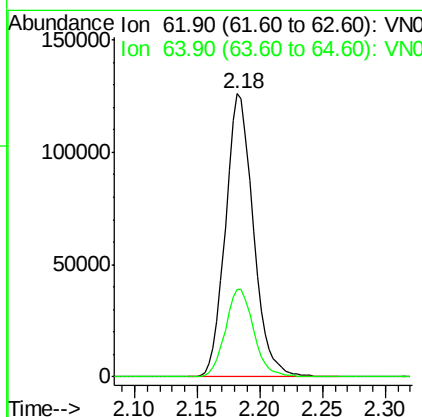
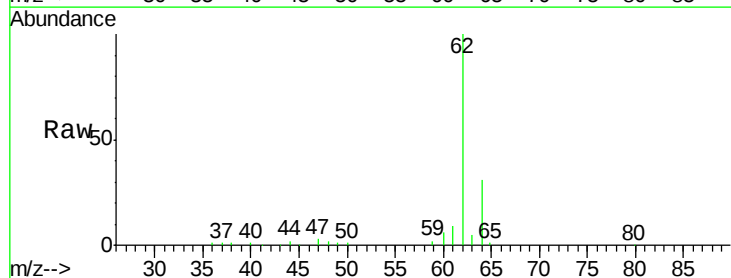
Manual Integrations
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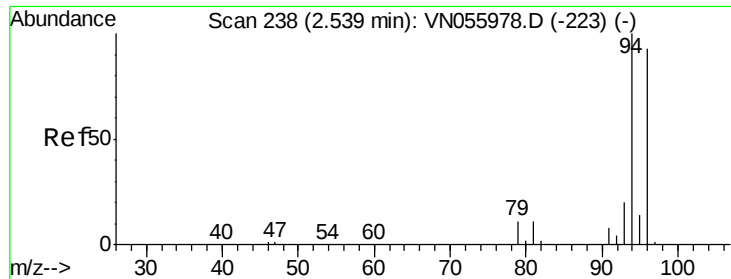
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#4
Vinyl Chloride
Concen: 53.094 ug/l
RT: 2.18 min Scan# 127
Delta R.T. -0.00 min
Lab File: VN056273.D
Acq: 13 Jun 2019 11:27

Tgt Ion	Ratio	Lower	Upper
62	100		
64	31.2	25.6	38.4





#5

Bromomethane

Concen: 50.143 ug/l

RT: 2.53 min Scan# 236

Delta R.T. -0.01 min

Lab File: VN056273.D

Acq: 13 Jun 2019 11:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 115973

Ion Ratio Lower Upper

94 100

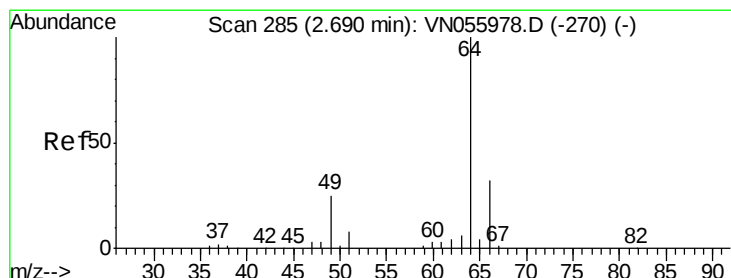
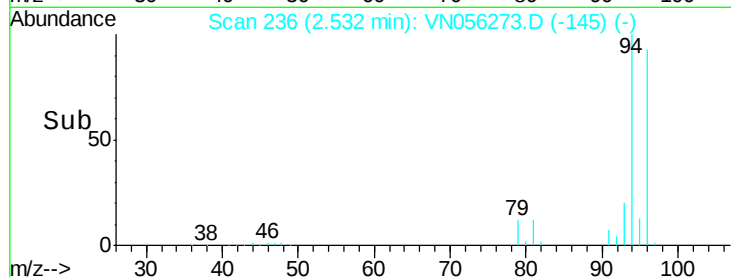
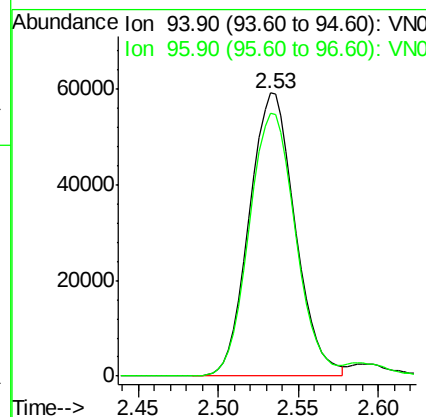
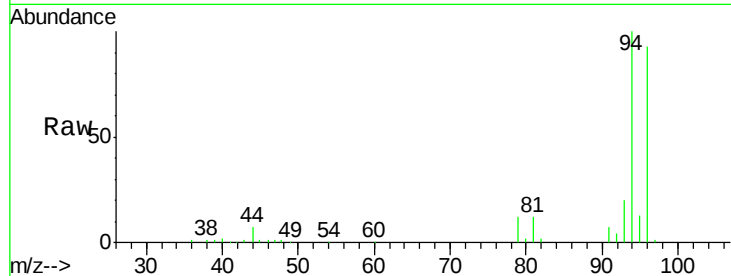
96 92.7 75.5 113.3

Manual Integrations

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#6

Chloroethane

Concen: 51.978 ug/l

RT: 2.68 min Scan# 283

Delta R.T. -0.01 min

Lab File: VN056273.D

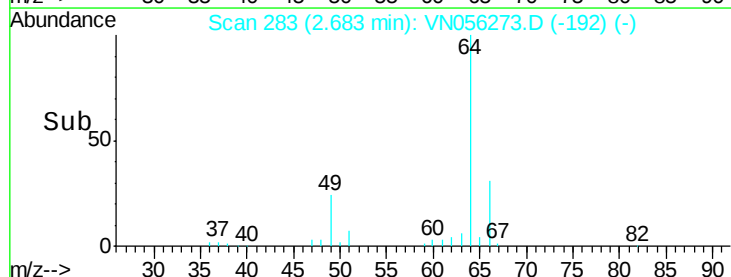
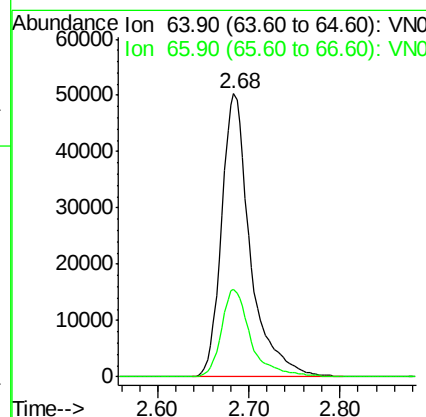
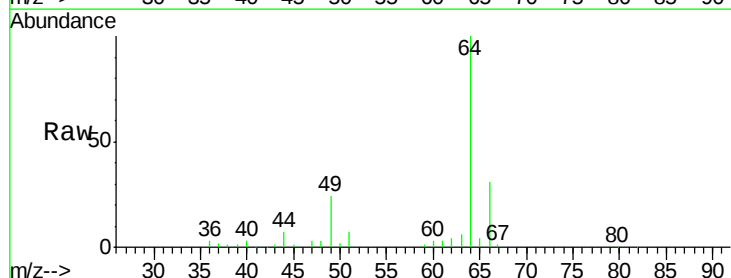
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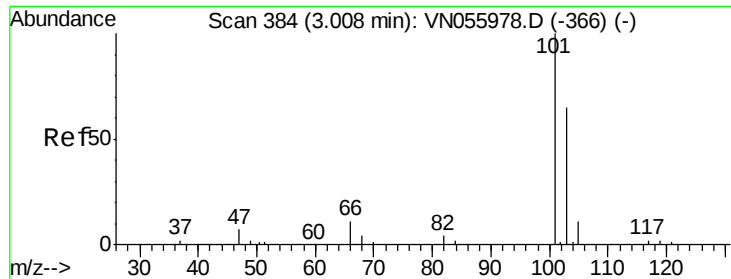
Tgt Ion: 64 Resp: 110341

Ion Ratio Lower Upper

64 100

66 30.9 25.4 38.0





#7

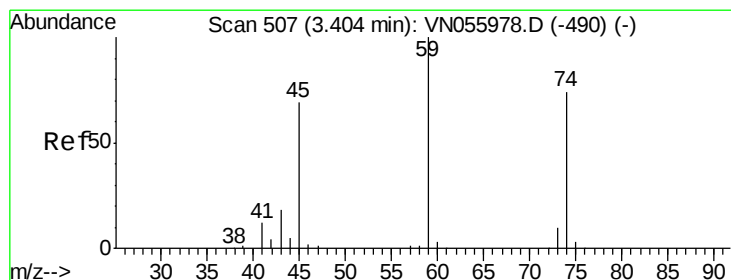
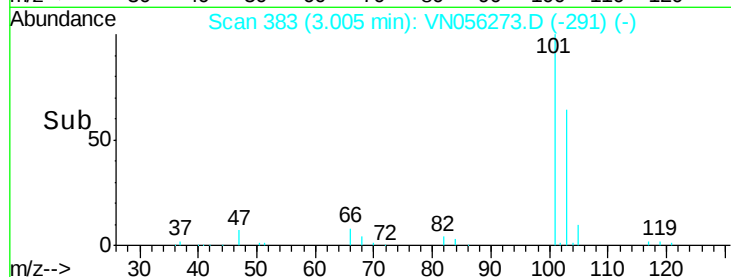
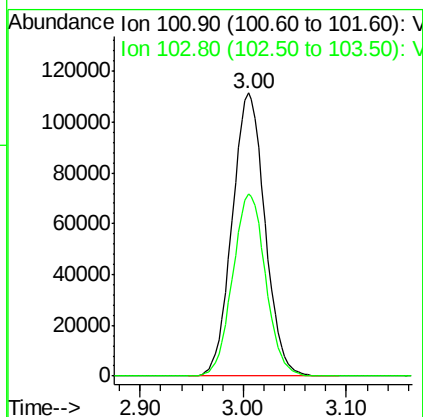
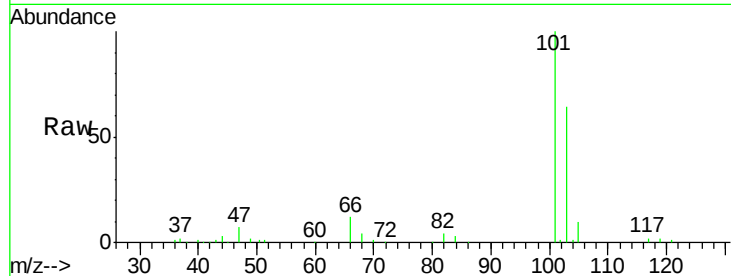
Trichlorofluoromethane
Concen: 52.703 ug/l
RT: 3.00 min Scan# 383
Delta R.T. -0.00 min
Lab File: VN056273.D
Acq: 13 Jun 2019 11:27

Instrument :
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ClientSampleId :
VSTDCCC050

Tot Ion:101 Resp: 246340
Ion Ratio Lower Upper
101 100
103 64.3 51.2 76.8

Manual Integrations
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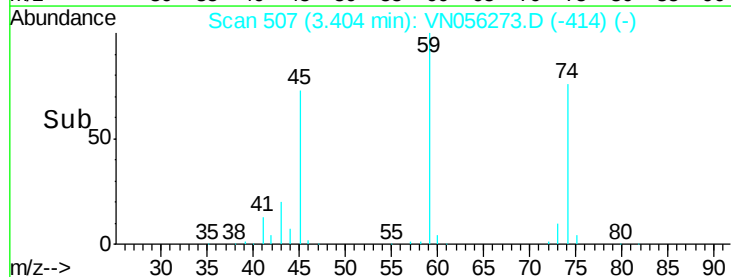
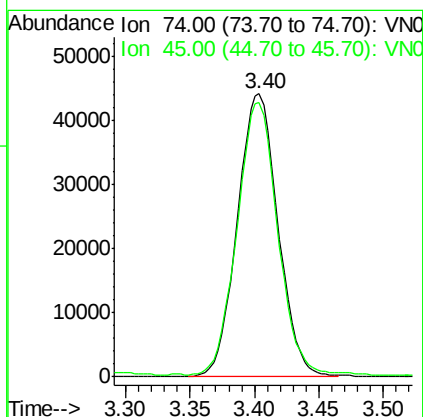
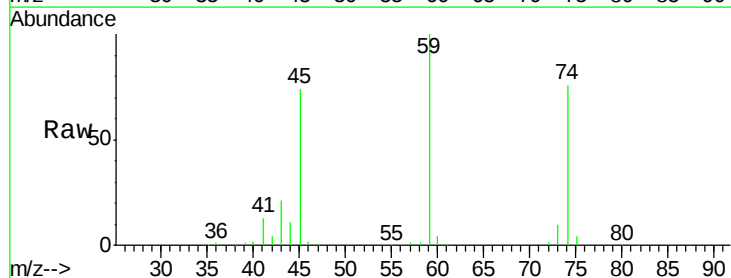
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6/14/2019 9:37:04 AM



#8

Diethyl Ether
Concen: 50.488 ug/l
RT: 3.40 min Scan# 507
Delta R.T. 0.00 min
Lab File: VN056273.D
Acq: 13 Jun 2019 11:27

Tgt Ion: 74 Resp: 97046
Ion Ratio Lower Upper
74 100
45 96.2 48.6 145.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 56.392 ug/l

RT: 3.74 min Scan# 611

Delta R.T. -0.01 min

Lab File: VN056273.D

Acq: 13 Jun 2019 11:27

Instrument :

MSVOA_N

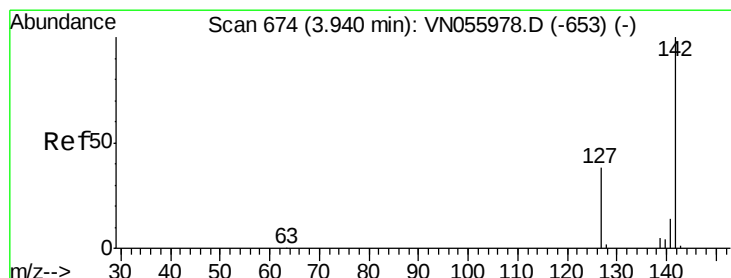
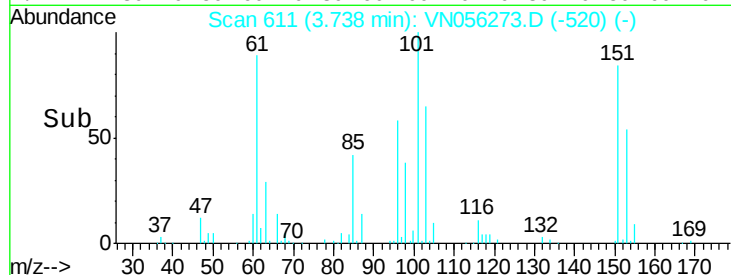
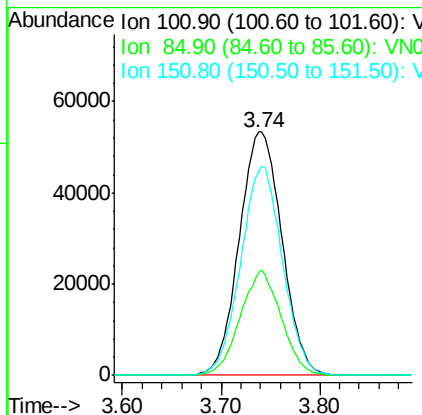
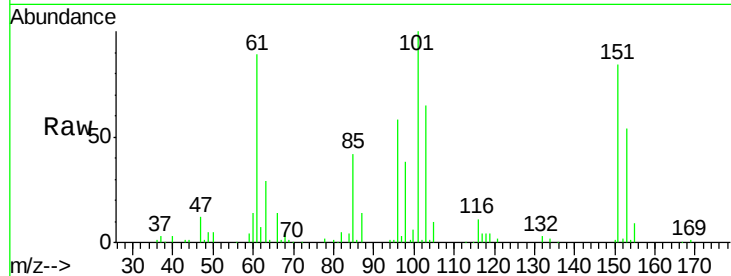
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	160116
Ion Ratio	Lower	Upper	
101	100		
85	41.3	33.4	50.2
151	84.0	69.4	104.2

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#10

Methyl Iodide

Concen: 49.662 ug/l

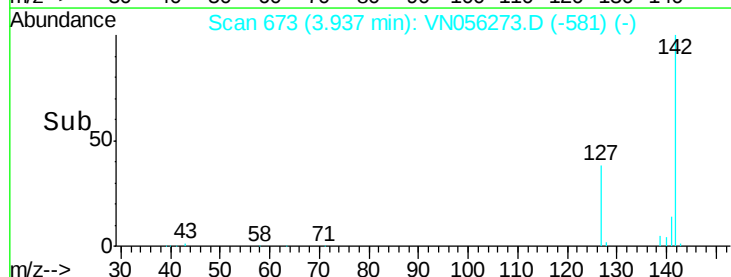
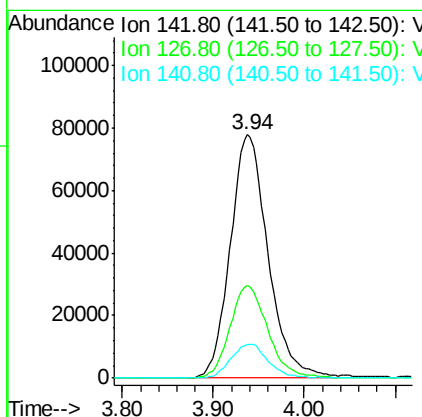
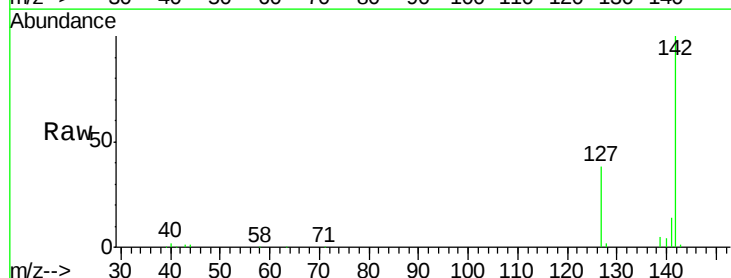
RT: 3.94 min Scan# 673

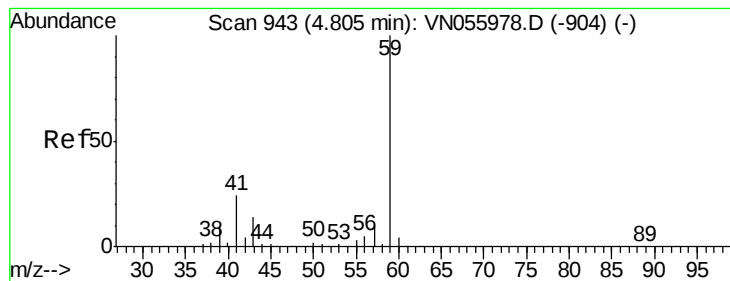
Delta R.T. -0.00 min

Lab File: VN056273.D

Acq: 13 Jun 2019 11:27

Tgt Ion:	142	Resp:	224080
Ion Ratio	Lower	Upper	
142	100		
127	38.3	31.0	46.4
141	13.8	11.4	17.0





#11

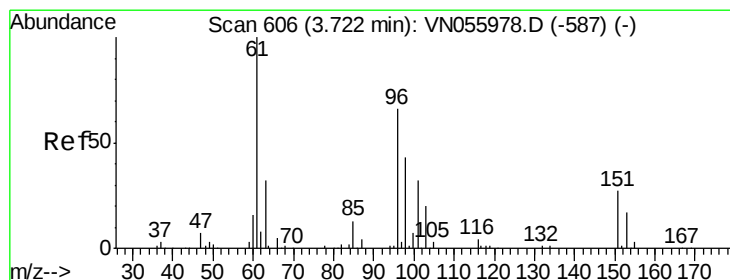
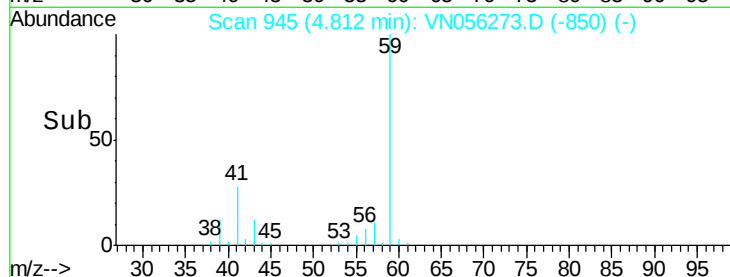
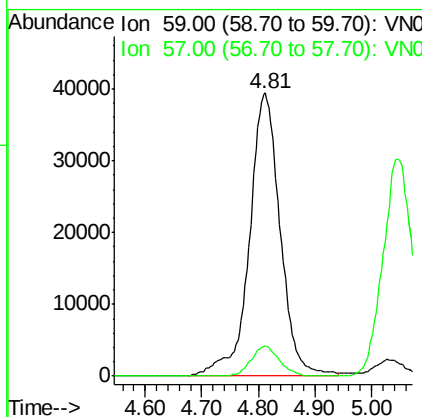
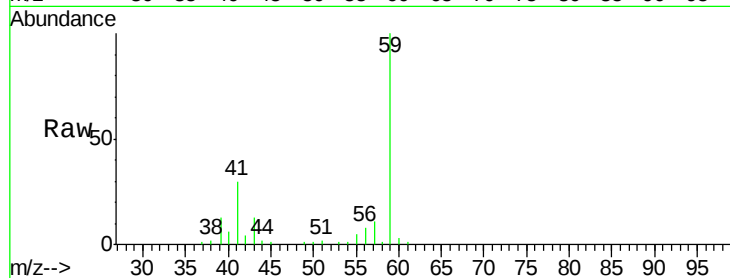
Tert butyl alcohol
 Concen: 256.807 ug/l
 RT: 4.81 min Scan# 945
 Delta R.T. 0.01 min
 Lab File: VN056273.D
 Acq: 13 Jun 2019 11:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	59	Resp	149414
Ion Ratio	100	Lower	Upper
57	9.5	7.8	11.6

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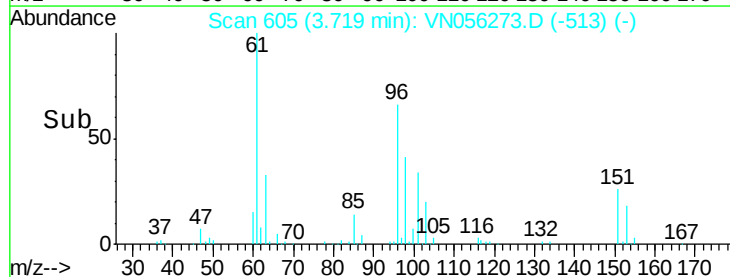
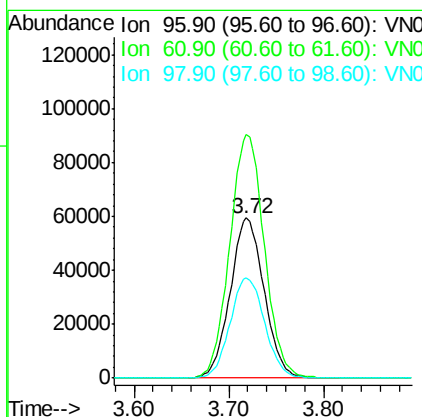
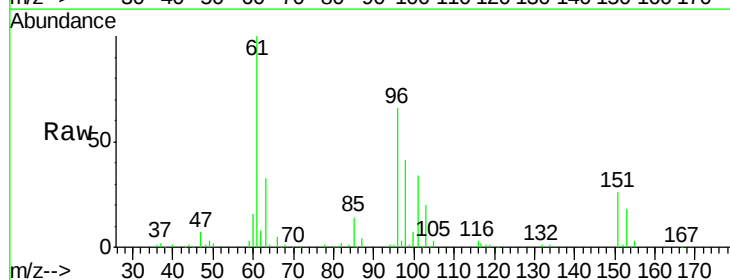
MMDadoda
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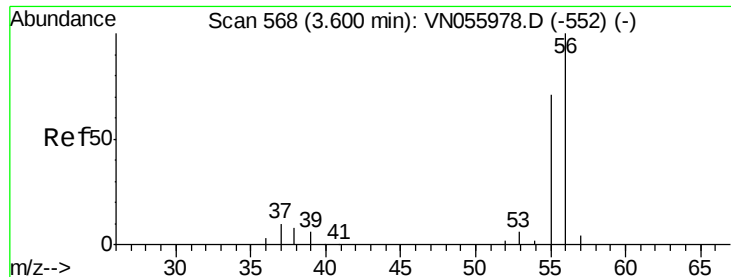


#12

1,1-Dichloroethene
 Concen: 52.508 ug/l
 RT: 3.72 min Scan# 605
 Delta R.T. -0.00 min
 Lab File: VN056273.D
 Acq: 13 Jun 2019 11:27

Tgt Ion	96	Resp	148427
Ion Ratio	100	Lower	Upper
61	152.2	123.2	184.8
98	62.7	50.4	75.6





#13

Acrolein

Concen: 244.309 ug/l

RT: 3.60 min Scan# 568

Delta R.T. 0.00 min

Lab File: VN056273.D

Acq: 13 Jun 2019 11:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 40995

Ion Ratio Lower Upper

56 100

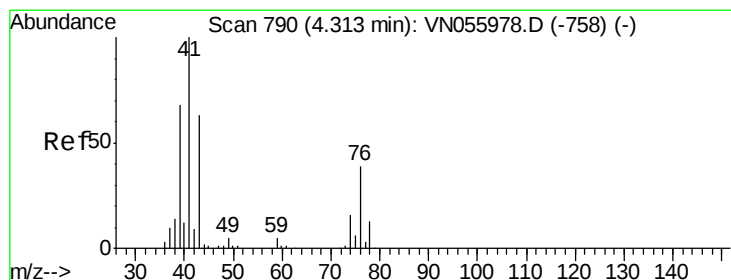
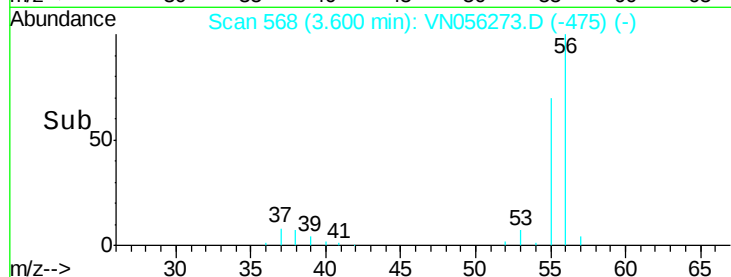
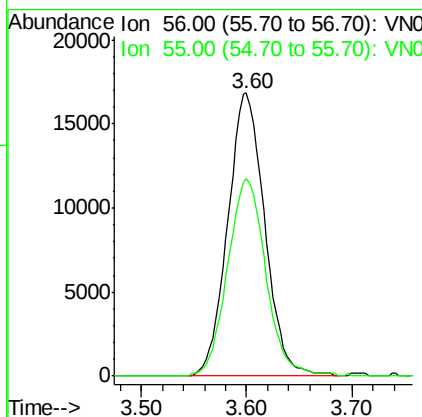
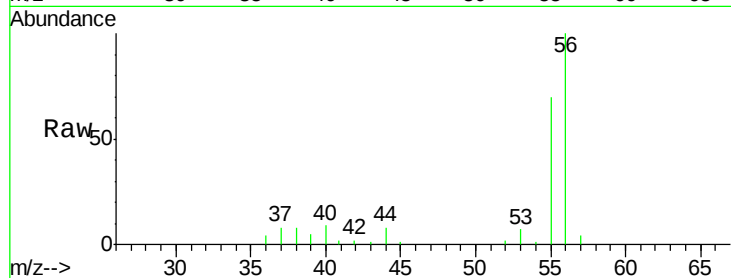
55 72.3 55.4 83.2

Manual Integrations

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#14

Allyl chloride

Concen: 55.284 ug/l

RT: 4.31 min Scan# 790

Delta R.T. 0.00 min

Lab File: VN056273.D

Acq: 13 Jun 2019 11:27

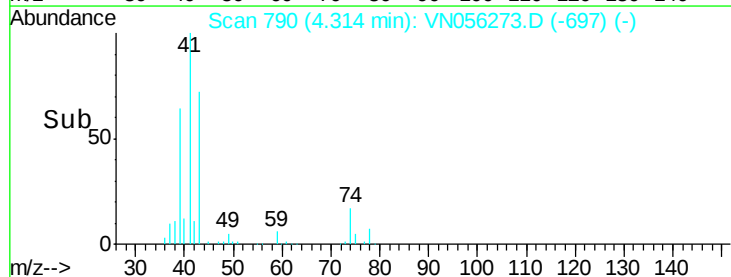
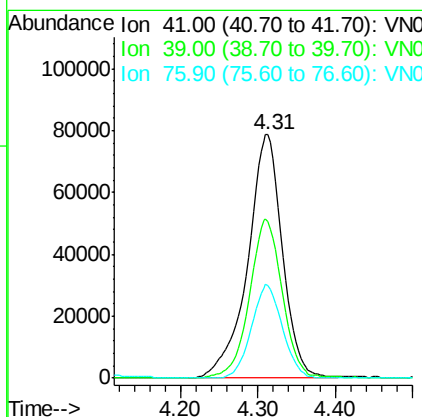
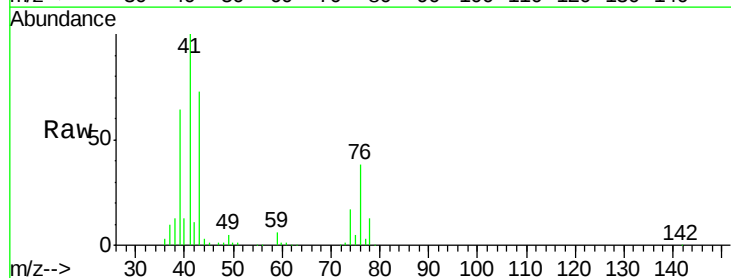
Tgt Ion: 41 Resp: 246760

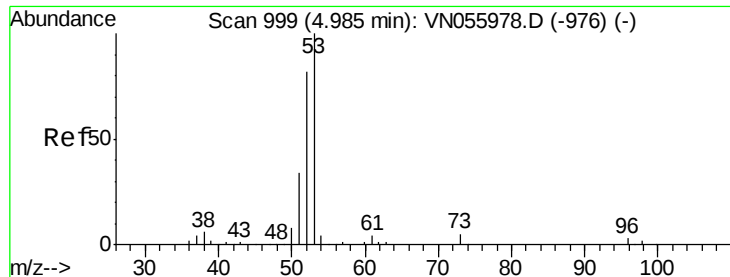
Ion Ratio Lower Upper

41 100

39 61.9 50.0 75.0

76 34.2 28.2 42.2





#15

Acrylonitrile

Concen: 298.282 ug/l

RT: 4.99 min Scan# 999

Delta R.T. 0.00 min

Lab File: VN056273.D

Acq: 13 Jun 2019 11:27

Instrument :

MSVOA_N

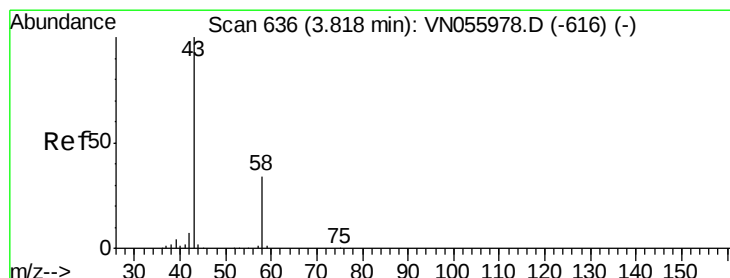
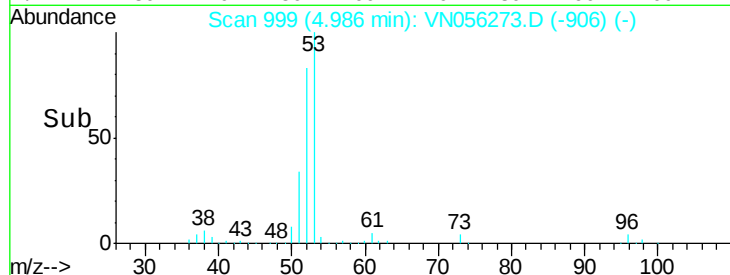
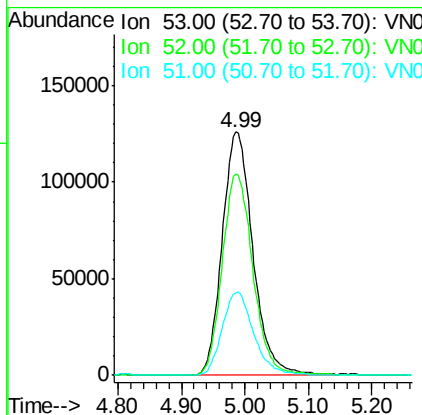
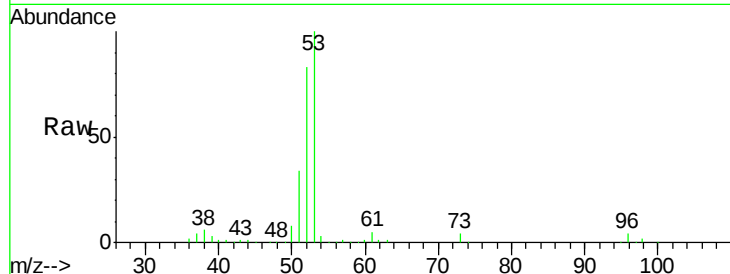
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	422457
Ion Ratio	Lower	Upper	
53	100		
52	82.6	65.8	98.8
51	35.3	28.2	42.4

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#16

Acetone

Concen: 279.197 ug/l

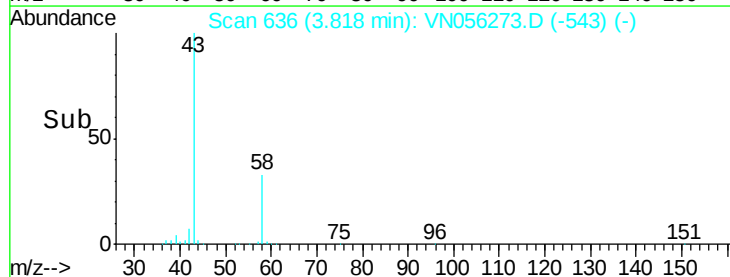
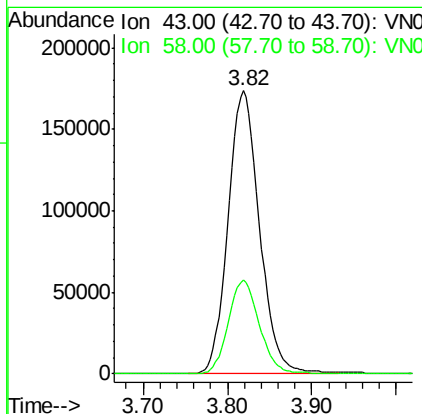
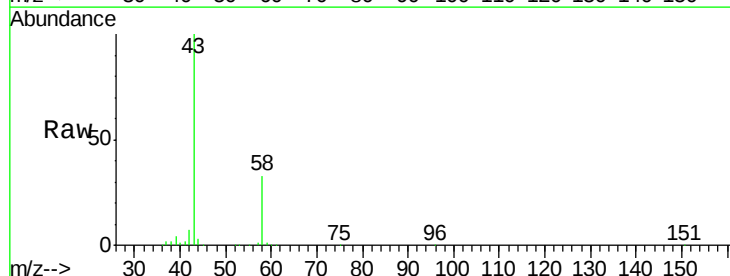
RT: 3.82 min Scan# 636

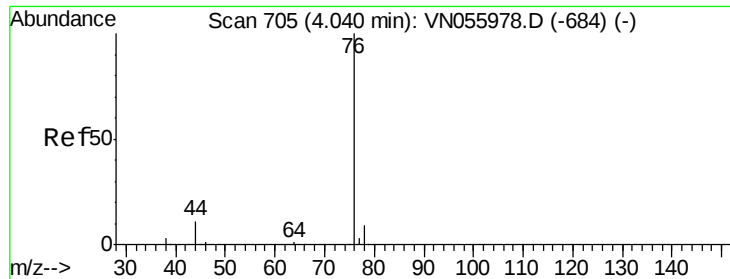
Delta R.T. 0.00 min

Lab File: VN056273.D

Acq: 13 Jun 2019 11:27

Tgt Ion:	43	Resp:	446441
Ion Ratio	Lower	Upper	
43	100		
58	33.2	26.6	39.8





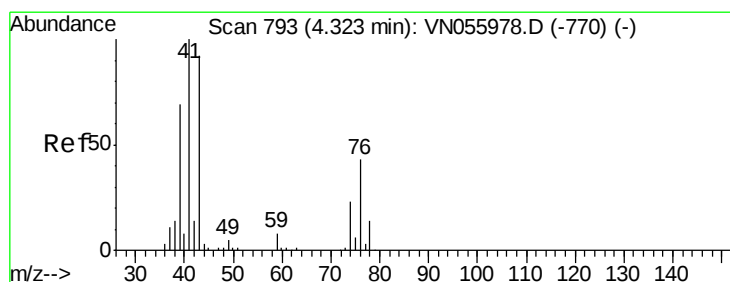
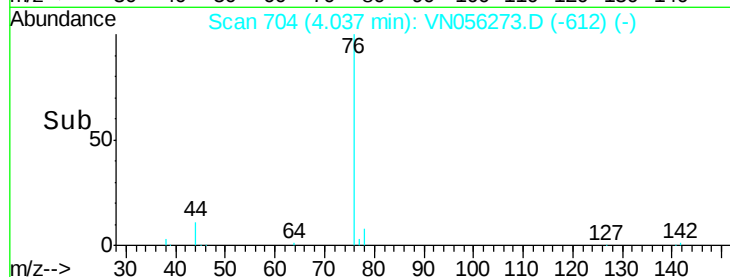
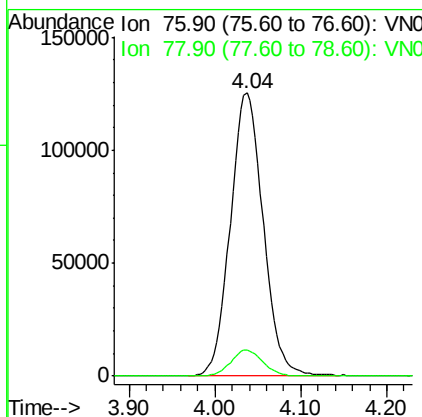
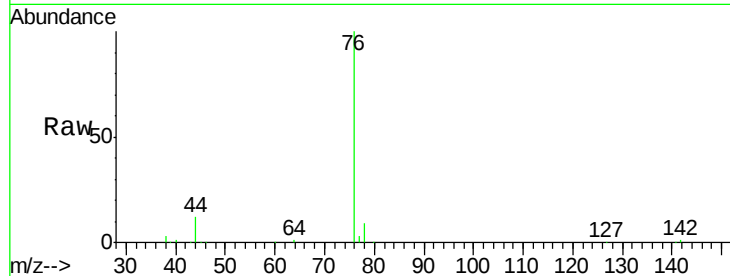
#17
Carbon Disulfide
Concen: 49.195 ug/l
RT: 4.04 min Scan# 704
Delta R.T. -0.00 min
Lab File: VN056273.D
Acq: 13 Jun 2019 11:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.4	11.2

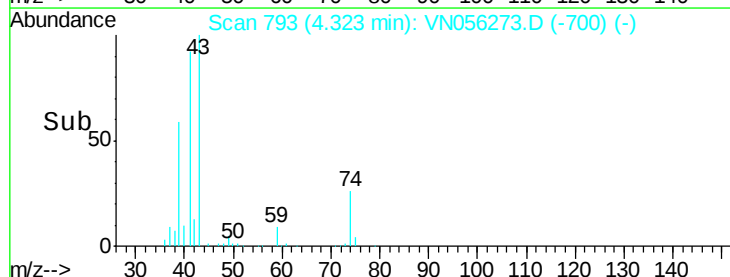
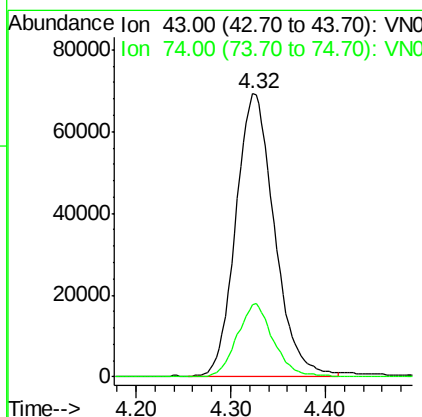
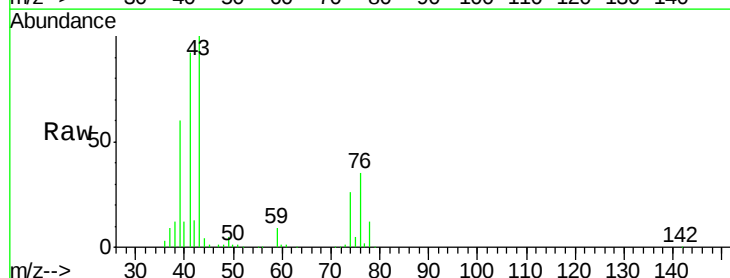
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#18
Methyl Acetate
Concen: 62.278 ug/l
RT: 4.32 min Scan# 793
Delta R.T. 0.00 min
Lab File: VN056273.D
Acq: 13 Jun 2019 11:27

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.6	19.3	28.9





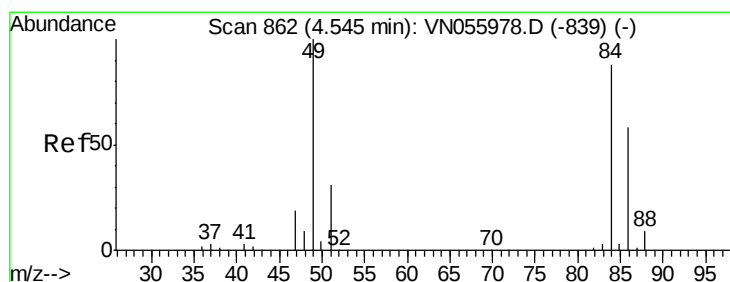
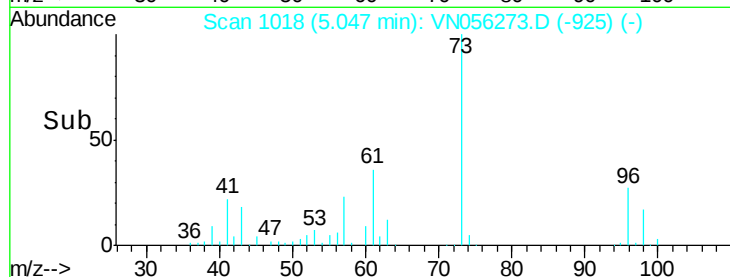
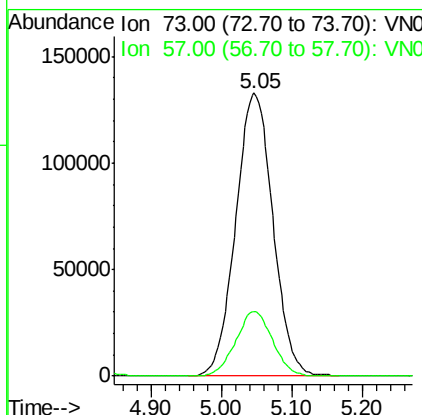
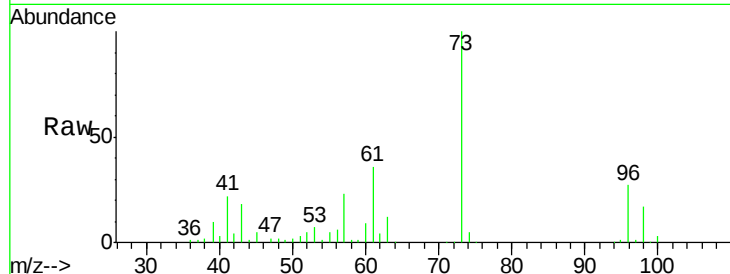
#19
Methyl tert-butyl Ether
Concen: 54.328 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN056273.D
Acq: 13 Jun 2019 11:27

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion: 73 Resp: 489506
Ion Ratio Lower Upper
73 100
57 22.7 17.8 26.8

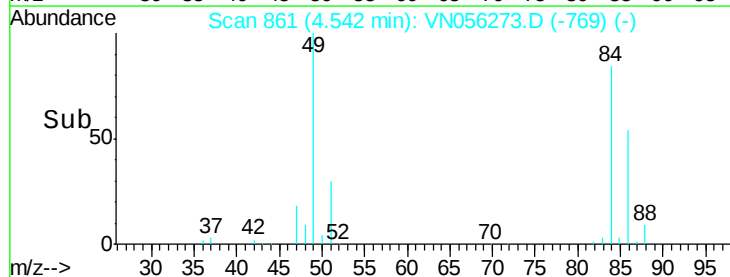
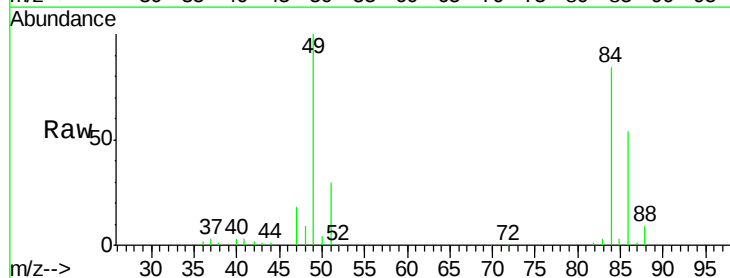
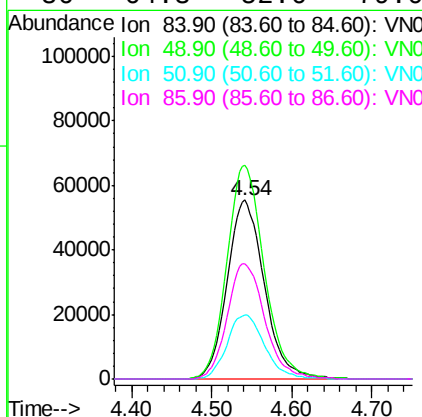
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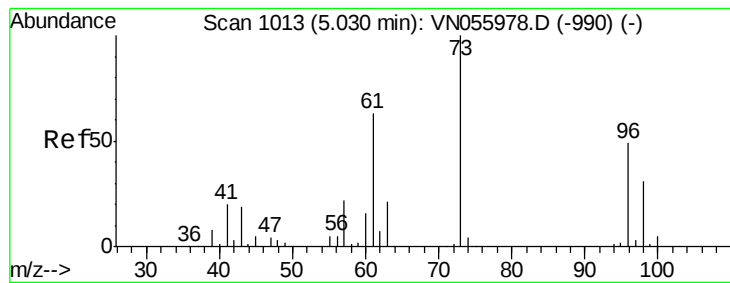
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#20
Methylene Chloride
Concen: 53.129 ug/l
RT: 4.54 min Scan# 861
Delta R.T. -0.00 min
Lab File: VN056273.D
Acq: 13 Jun 2019 11:27

Tgt Ion: 84 Resp: 175027
Ion Ratio Lower Upper
84 100
49 119.4 93.5 140.3
51 35.6 28.6 43.0
86 64.3 52.6 79.0





#21

trans-1,2-Dichloroethene

Concen: 51.890 ug/l

RT: 5.03 min Scan# 1013

Delta R.T. 0.00 min

Lab File: VN056273.D

Acq: 13 Jun 2019 11:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 96 Resp: 157161

Ion Ratio Lower Upper

96 100

61 135.2 107.8 161.8

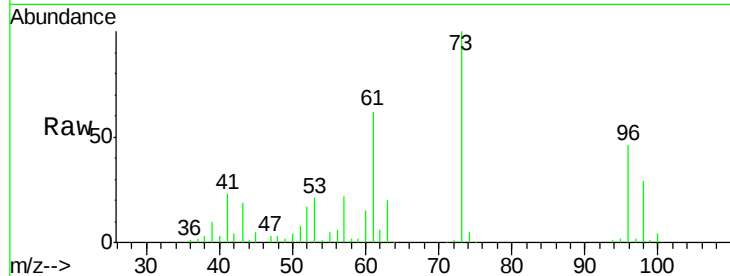
98 62.8 49.8 74.8

Manual Integrations

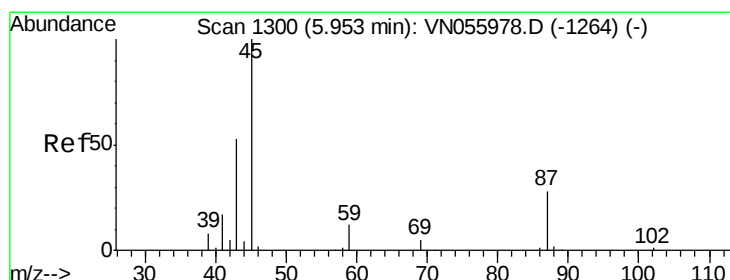
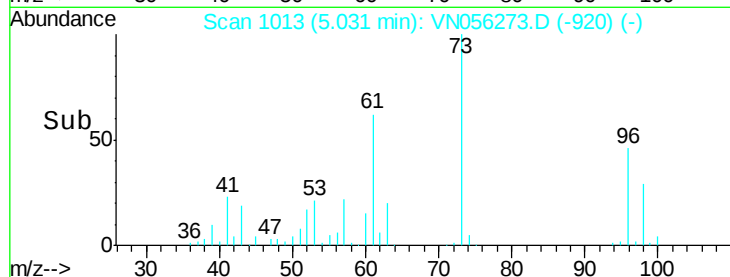
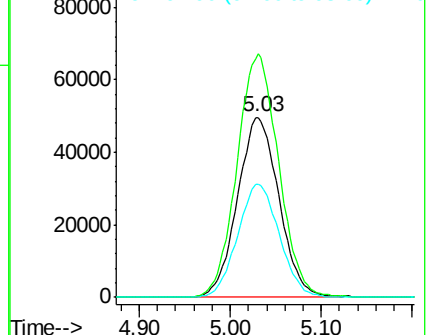
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Abundance Ion 95.90 (95.60 to 96.60): VNO
Ion 60.90 (60.60 to 61.60): VNO
Ion 97.90 (97.60 to 98.60): VNO



#22

Diisopropyl ether

Concen: 55.741 ug/l

RT: 5.95 min Scan# 1300

Delta R.T. 0.00 min

Lab File: VN056273.D

Acq: 13 Jun 2019 11:27

Tgt Ion: 45 Resp: 514306

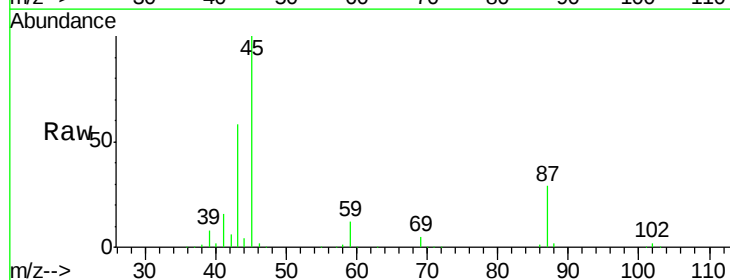
Ion Ratio Lower Upper

45 100

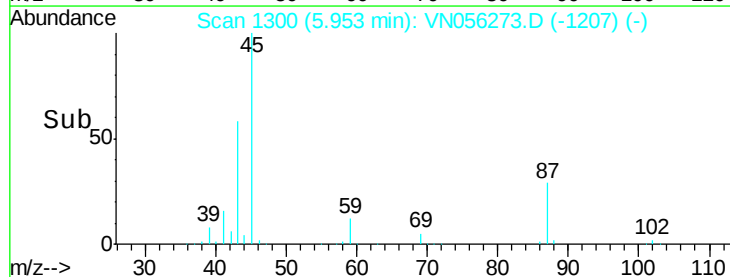
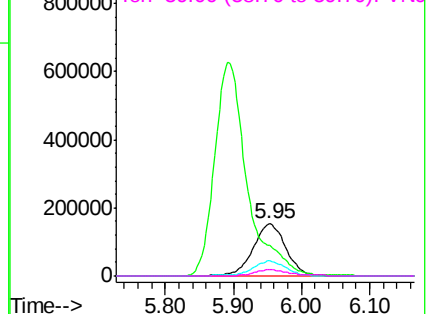
43 56.6 45.0 67.6

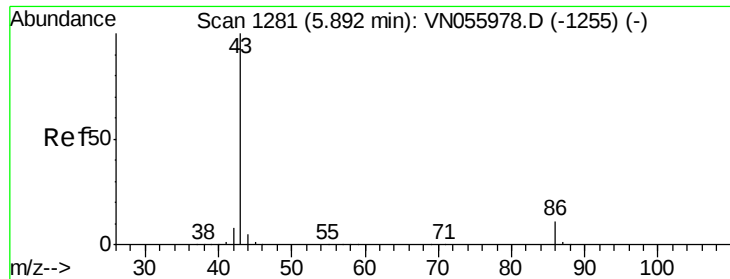
87 28.6 22.2 33.4

59 11.4 9.1 13.7



Abundance Ion 45.00 (44.70 to 45.70): VNO
Ion 43.00 (42.70 to 43.70): VNO
Ion 87.00 (86.70 to 87.70): VNO
Ion 59.00 (58.70 to 59.70): VNO





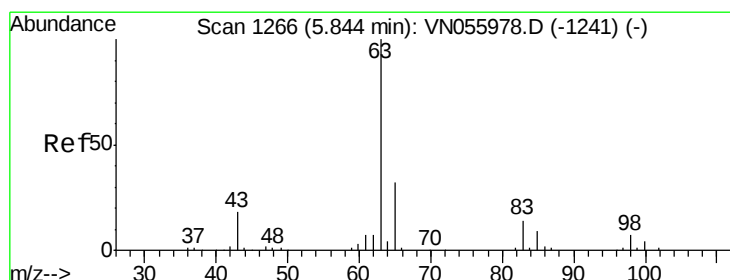
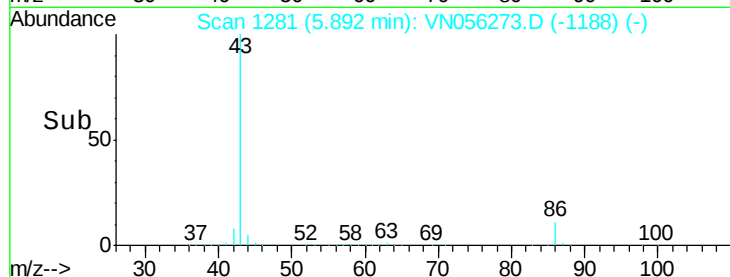
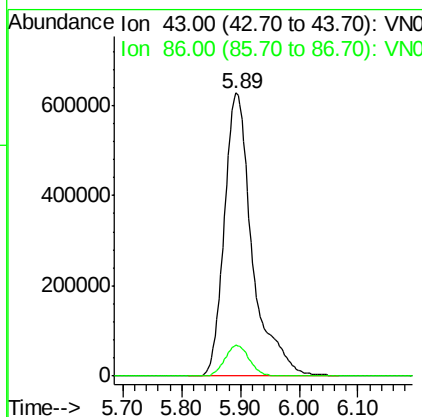
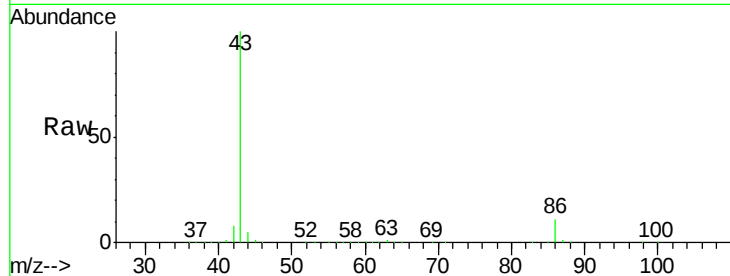
#23
 Vinyl Acetate
 Concen: 286.344 ug/l
 RT: 5.89 min Scan# 1281
 Delta R.T. 0.00 min
 Lab File: VN056273.D
 Acq: 13 Jun 2019 11:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion: 43 Resp: 2080609
 Ion Ratio Lower Upper
 43 100
 86 10.9 8.6 13.0

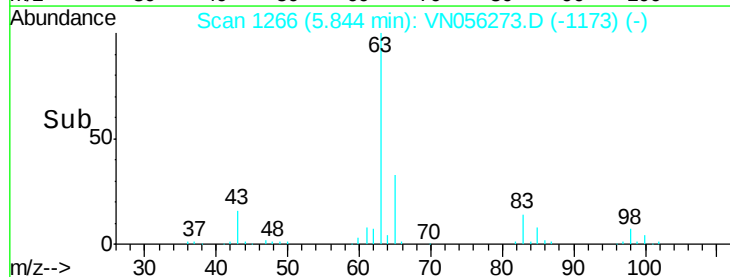
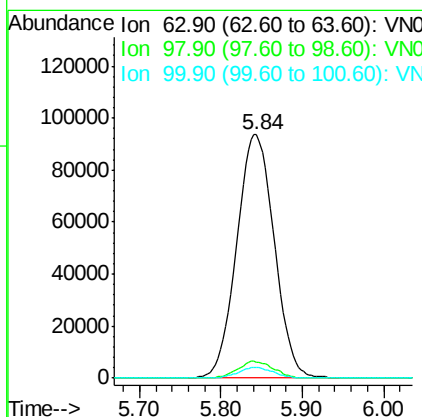
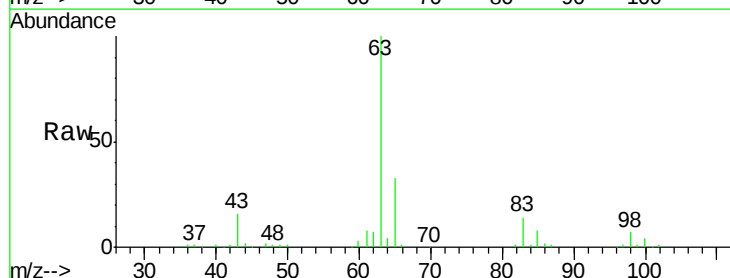
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#24
 1,1-Dichloroethane
 Concen: 56.015 ug/l
 RT: 5.84 min Scan# 1266
 Delta R.T. 0.00 min
 Lab File: VN056273.D
 Acq: 13 Jun 2019 11:27

Tgt Ion: 63 Resp: 298129
 Ion Ratio Lower Upper
 63 100
 98 6.7 3.4 10.1
 100 4.3 2.2 6.6





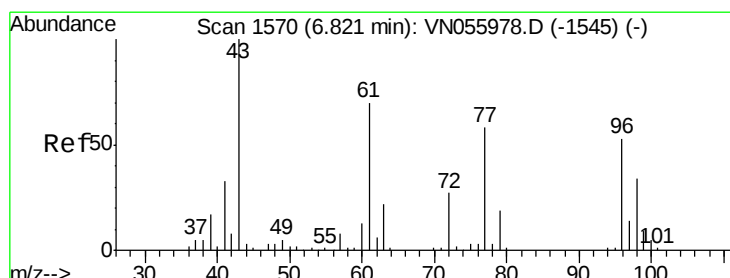
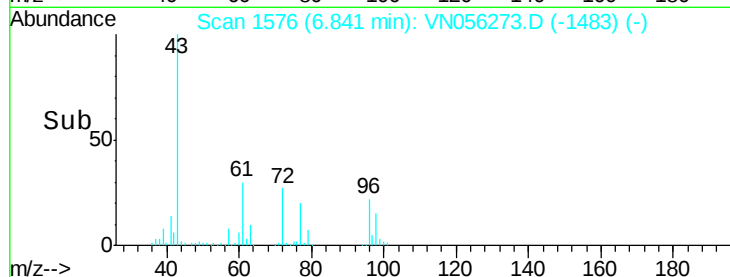
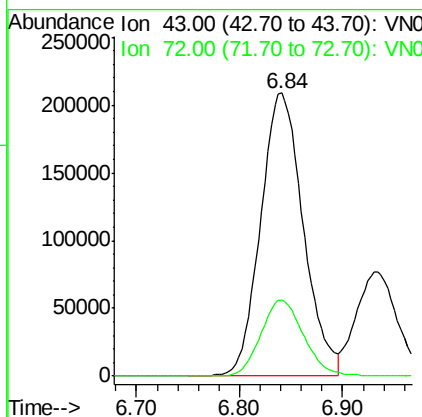
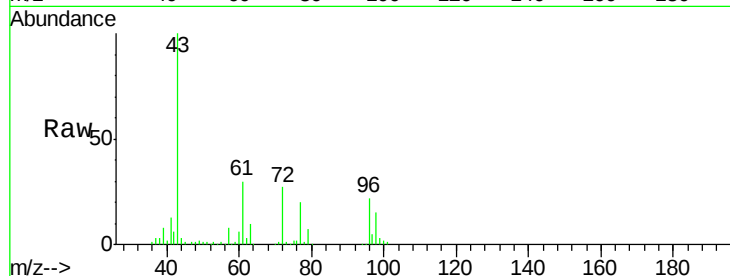
#25
2-Butanone
Concen: 295.343 ug/l
RT: 6.84 min Scan# 1576
Delta R.T. 0.00 min
Lab File: VN056273.D
Acq: 13 Jun 2019 11:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 596684
Ion Ratio Lower Upper
43 100
72 27.1 21.9 32.9

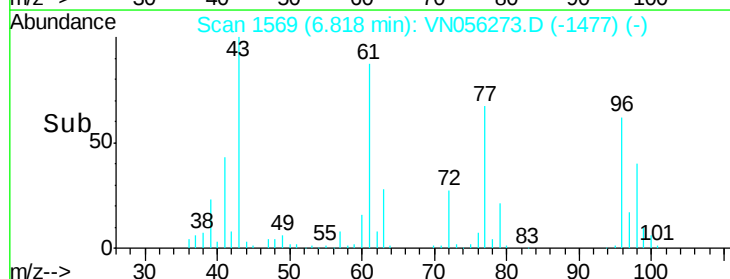
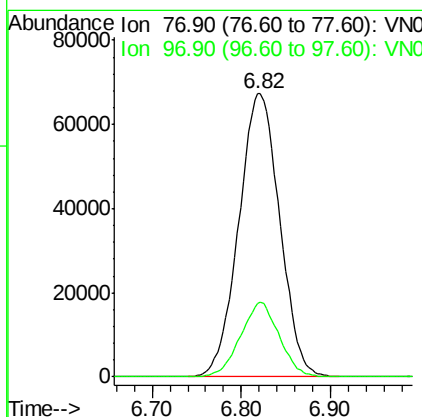
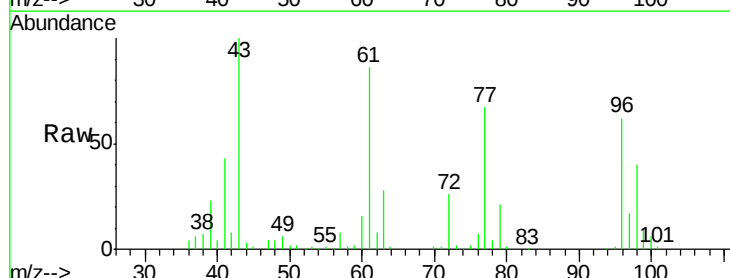
Manual Integrations
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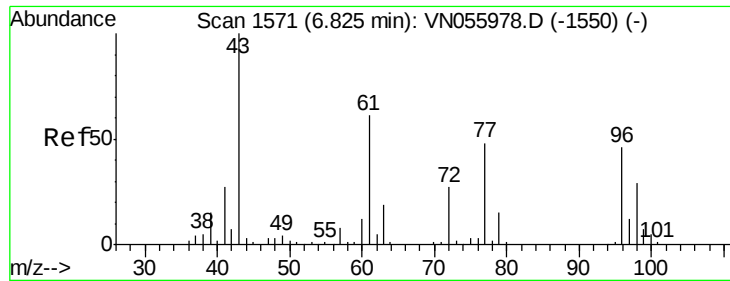
MMDadoda
6/14/2019 9:37:04 AM



#26
2,2-Dichloropropane
Concen: 51.807 ug/l
RT: 6.82 min Scan# 1569
Delta R.T. -0.00 min
Lab File: VN056273.D
Acq: 13 Jun 2019 11:27

Tgt Ion: 77 Resp: 215161
Ion Ratio Lower Upper
77 100
97 24.8 12.2 36.6





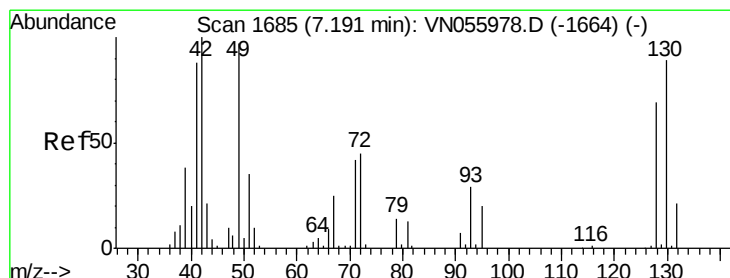
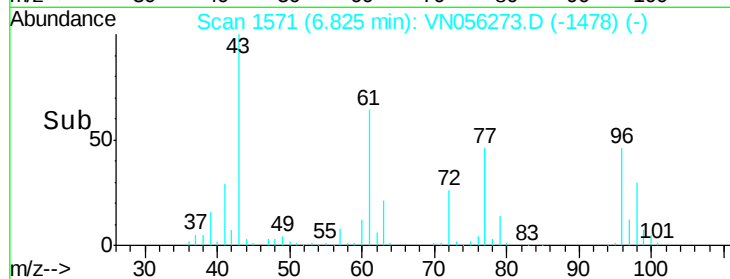
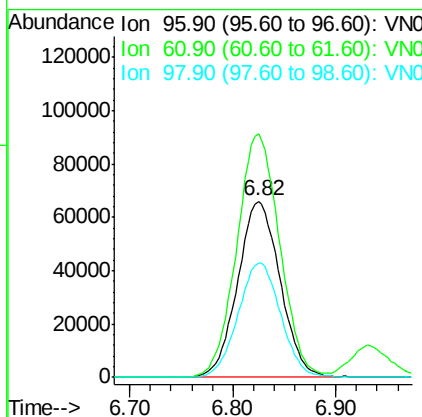
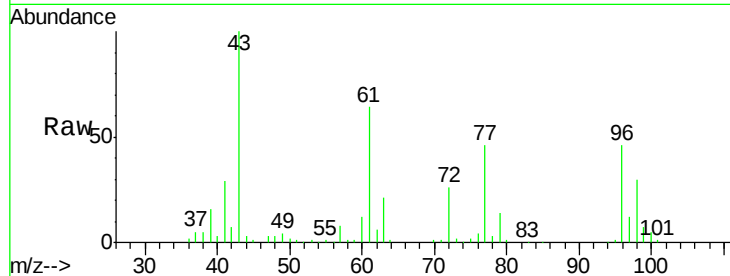
#27
 cis-1,2-Dichloroethene
 Concen: 52.960 ug/l
 RT: 6.82 min Scan# 1571
 Delta R.T. 0.00 min
 Lab File: VN056273.D
 Acq: 13 Jun 2019 11:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100	188547		
61	140.0	0.0	275.8	
98	65.6	0.0	128.4	

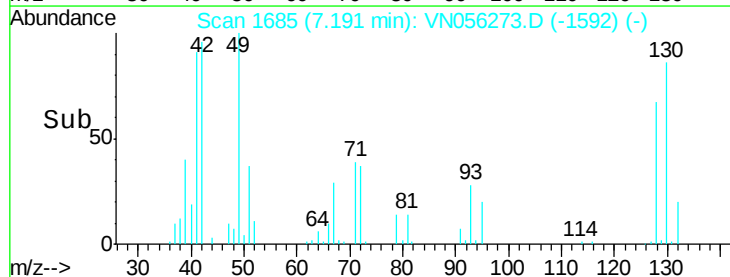
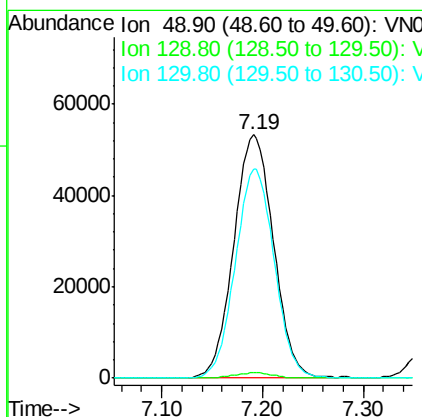
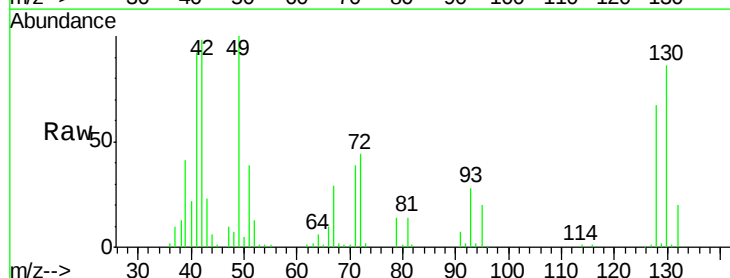
Manual Integrations
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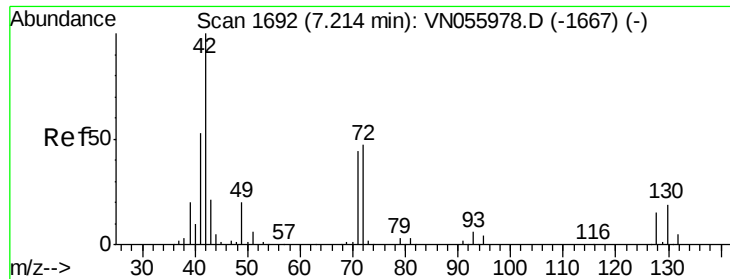
MMDadoda
 6/14/2019 9:37:04 AM



#28
 Bromochloromethane
 Concen: 57.948 ug/l
 RT: 7.19 min Scan# 1685
 Delta R.T. 0.00 min
 Lab File: VN056273.D
 Acq: 13 Jun 2019 11:27

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	145853		
129	2.1	0.0	4.4	
130	84.0	71.2	106.8	





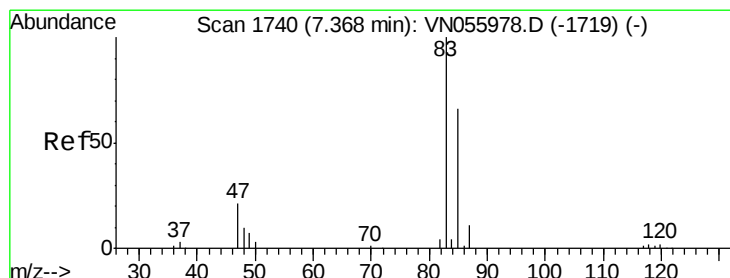
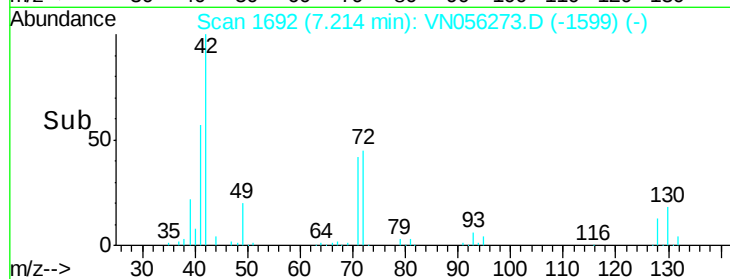
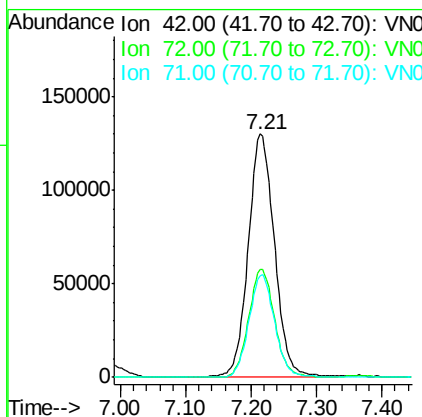
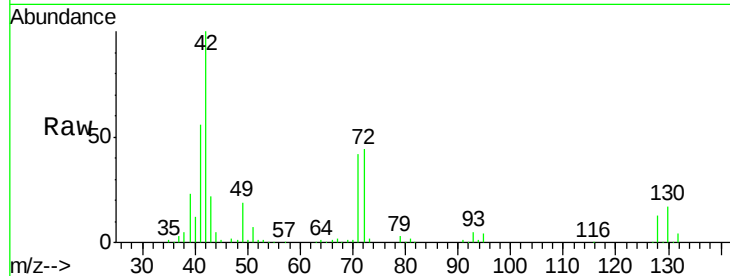
#29
Tetrahydrofuran
Concen: 292.657 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VN056273.D
Acq: 13 Jun 2019 11:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.7	35.9	53.9
71	41.2	34.0	51.0

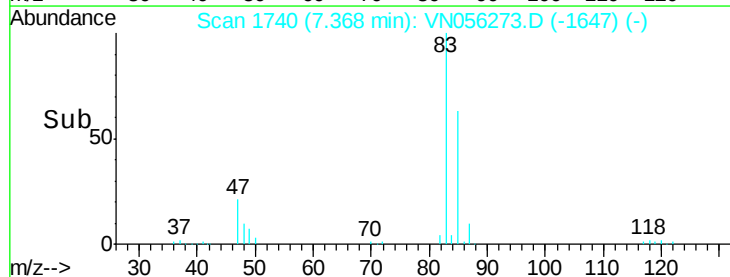
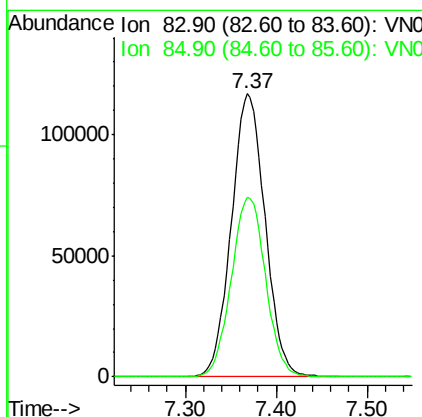
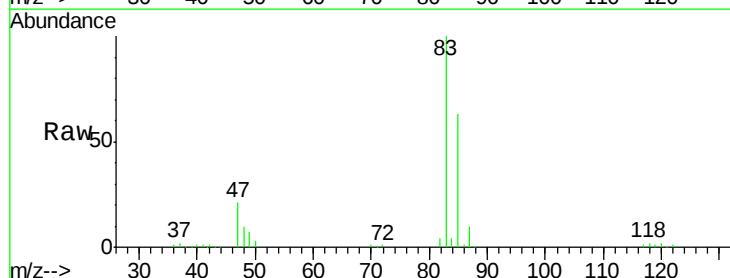
Manual Integrations
APPROVED

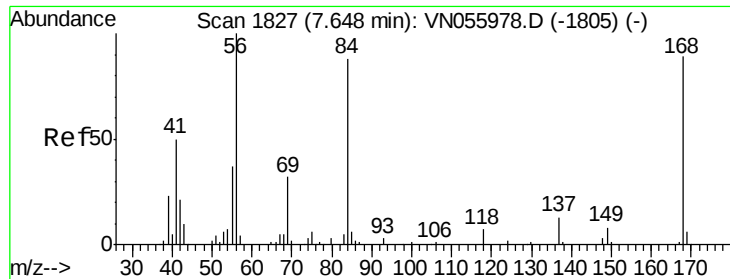
MMDadoda
6/14/2019 9:37:04 AM



#30
Chloroform
Concen: 56.288 ug/l
RT: 7.37 min Scan# 1740
Delta R.T. 0.00 min
Lab File: VN056273.D
Acq: 13 Jun 2019 11:27

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.4	51.8	77.8





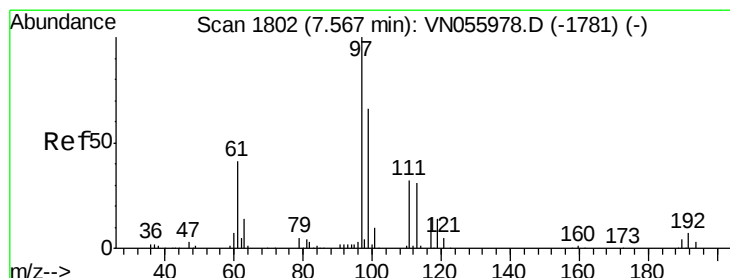
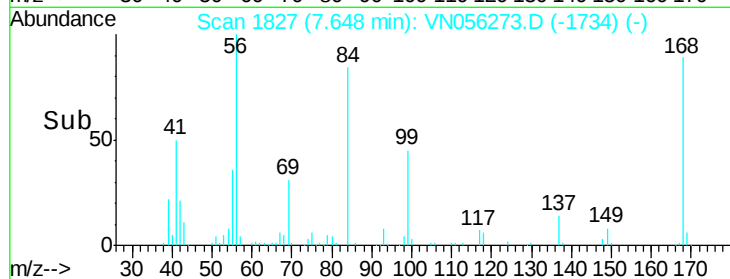
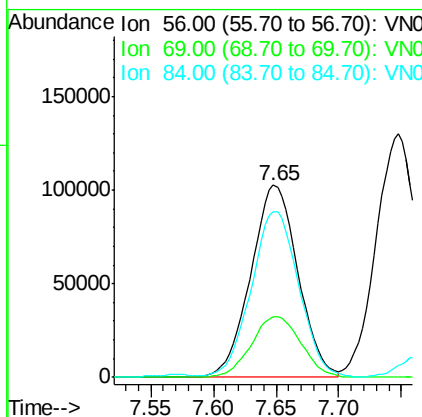
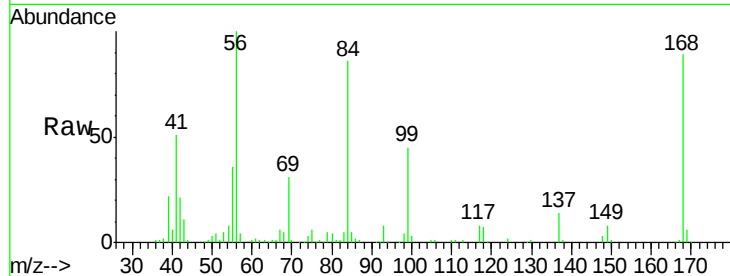
#31
Cyclohexane
Concen: 50.723 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. 0.00 min
Lab File: VN056273.D
Acq: 13 Jun 2019 11:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
56	100		
69	31.3	25.6	38.4
84	85.2	67.4	101.0

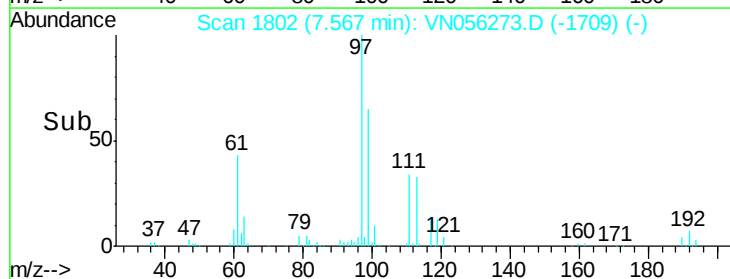
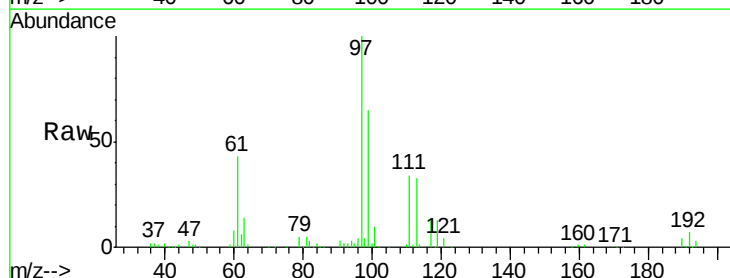
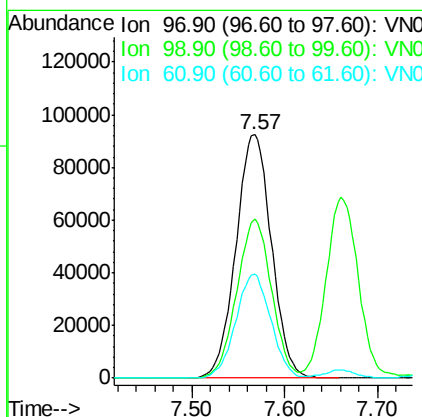
Manual Integrations
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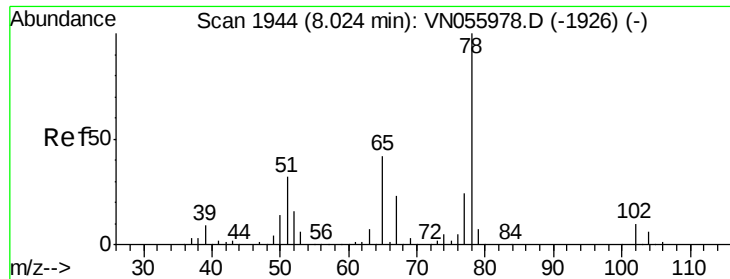
MMDadoda
6/14/2019 9:37:04 AM



#32
1,1,1-Trichloroethane
Concen: 54.994 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. 0.00 min
Lab File: VN056273.D
Acq: 13 Jun 2019 11:27

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.9	52.0	78.0
61	42.2	32.9	49.3





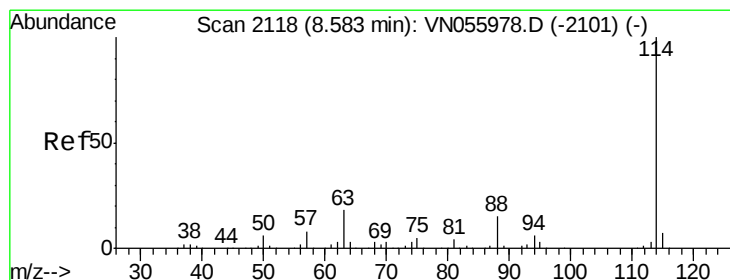
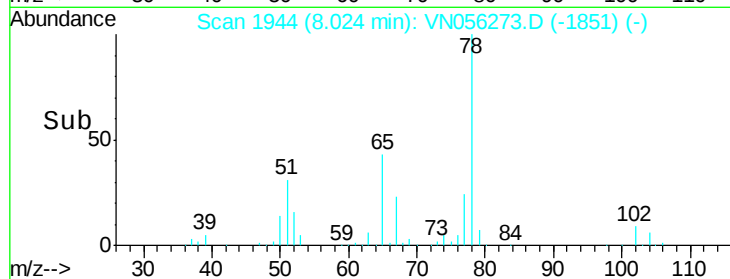
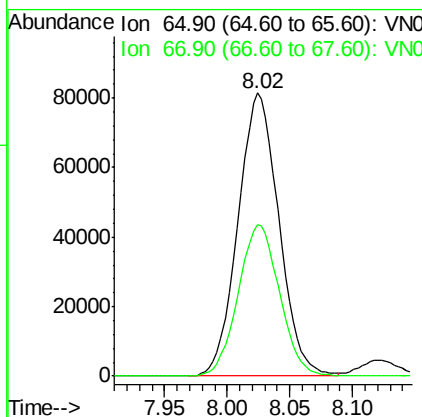
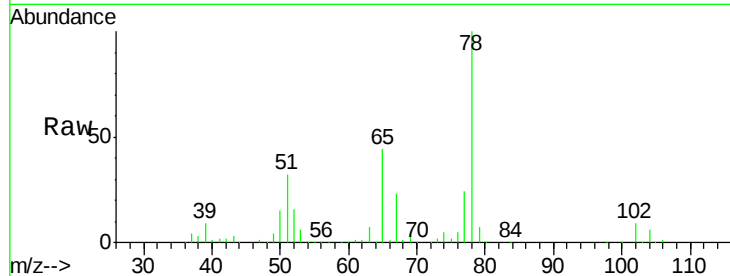
#33
 1,2-Dichloroethane-d4
 Concen: 55.217 ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. 0.00 min
 Lab File: VN056273.D
 Acq: 13 Jun 2019 11:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
65	100	184609		
67	54.2	0.0	109.2	

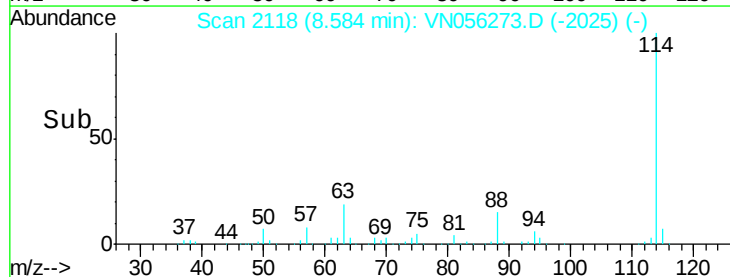
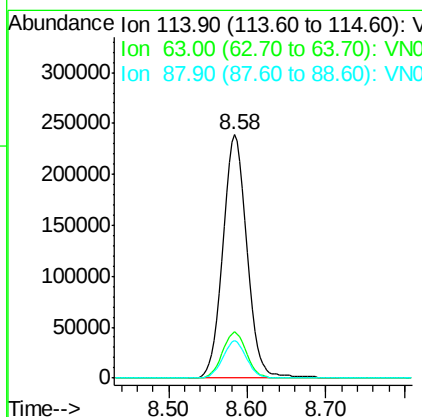
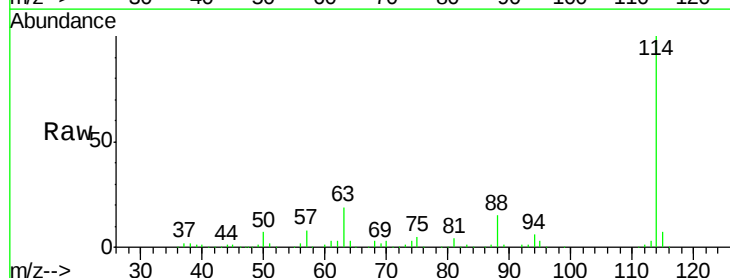
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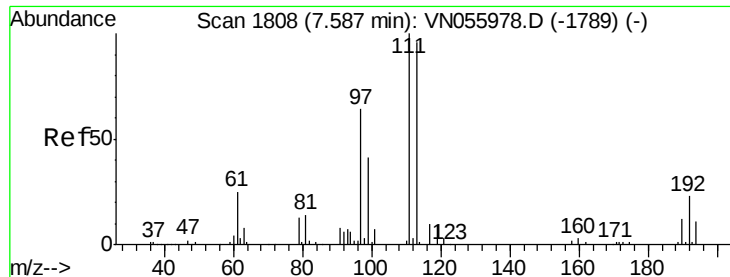
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN056273.D
 Acq: 13 Jun 2019 11:27

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	503548		
63	18.9	0.0	39.2	
88	15.4	0.0	31.0	





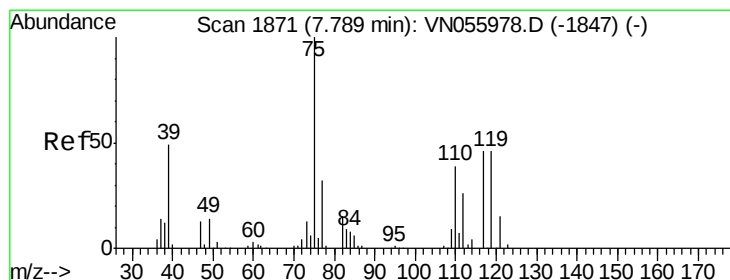
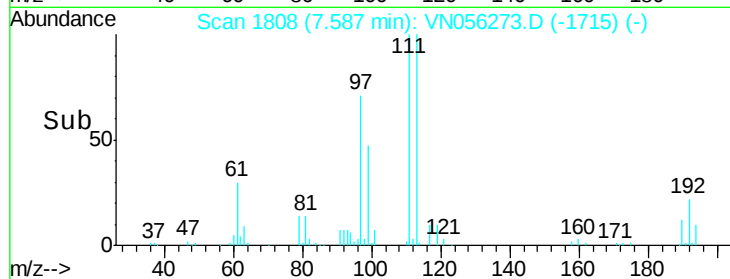
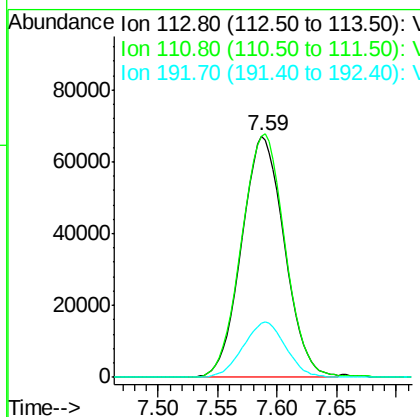
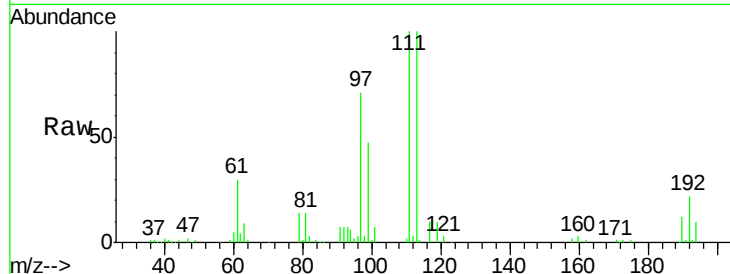
#35
 Dibromofluoromethane
 Concen: 54.113 ug/l
 RT: 7.59 min Scan# 1808
 Delta R.T. 0.00 min
 Lab File: VN056273.D
 Acq: 13 Jun 2019 11:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100	167177		
111	103.1	81.9	122.9	
192	22.7	19.5	29.3	

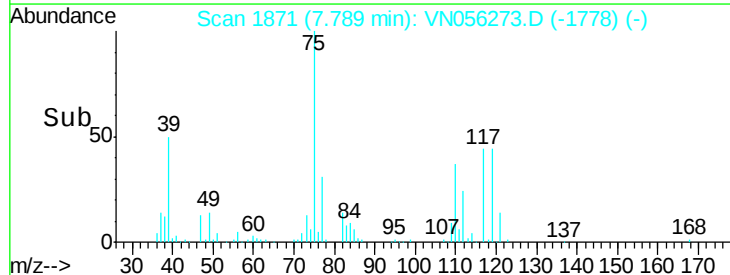
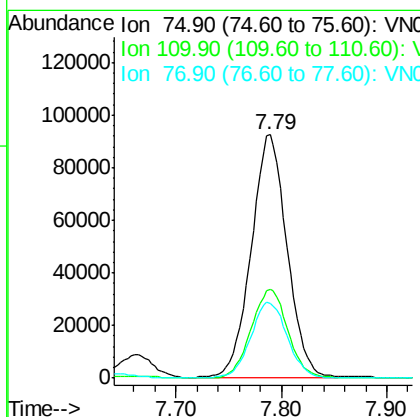
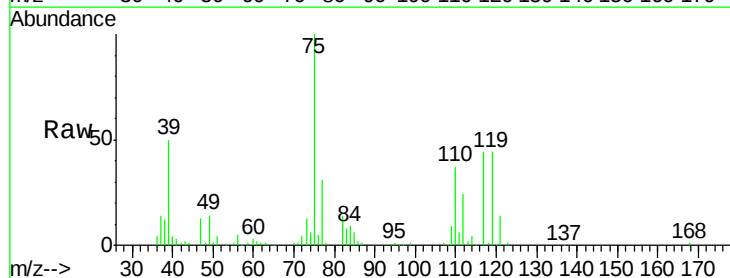
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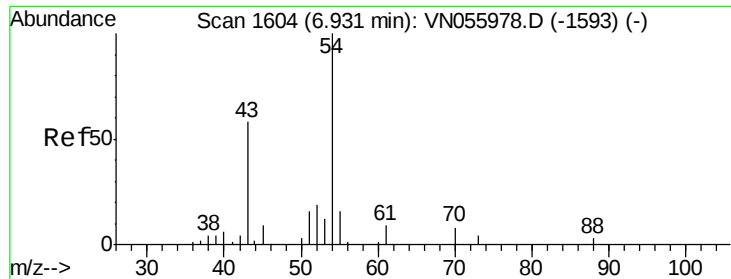
MMDadoda
 6/14/2019 9:37:04 AM



#36
 1,1-Dichloropropene
 Concen: 50.221 ug/l
 RT: 7.79 min Scan# 1871
 Delta R.T. 0.00 min
 Lab File: VN056273.D
 Acq: 13 Jun 2019 11:27

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	217447		
110	37.7	19.0	57.0	
77	32.2	25.1	37.7	





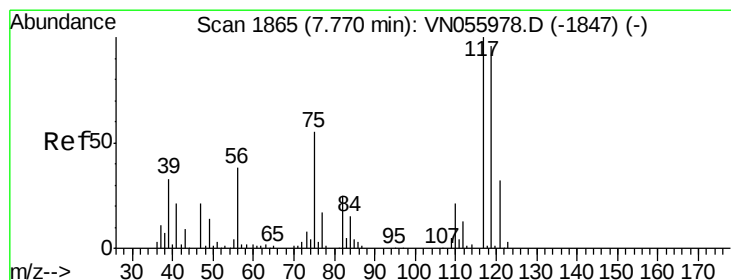
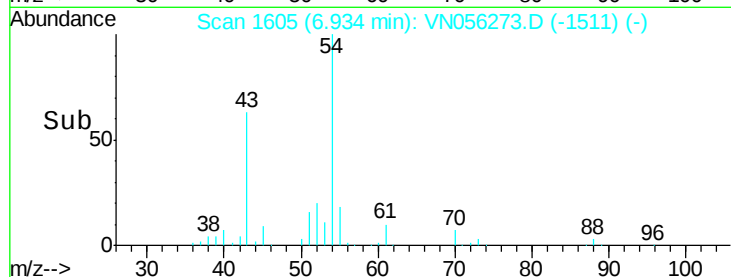
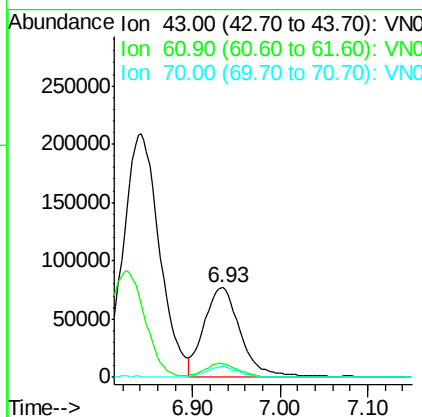
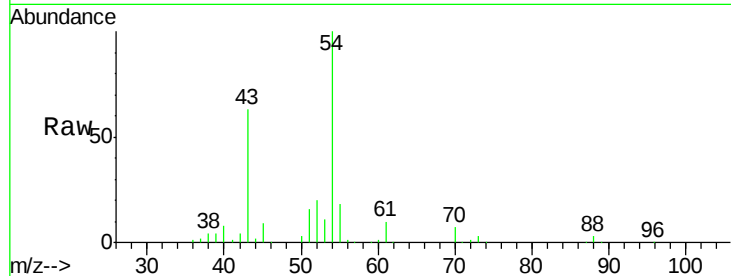
#37
Ethyl Acetate
Concen: 56.747 ug/l
RT: 6.93 min Scan# 1605
Delta R.T. 0.00 min
Lab File: VN056273.D
Acq: 13 Jun 2019 11:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.5	12.2	18.2
70	11.0	8.9	13.3

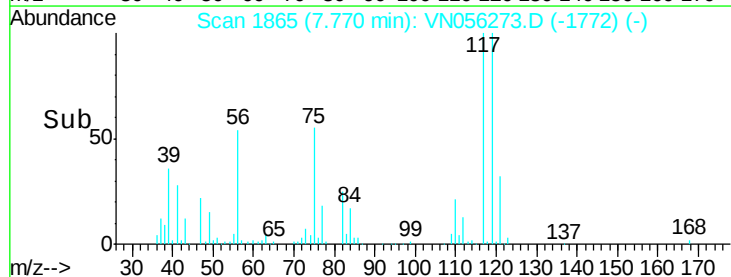
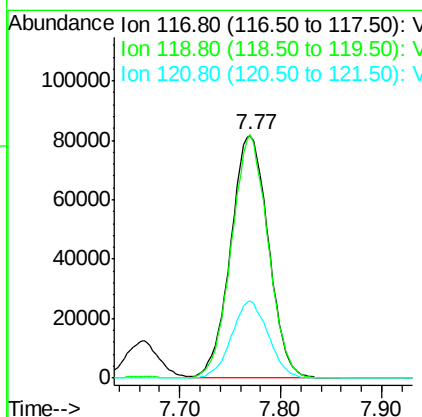
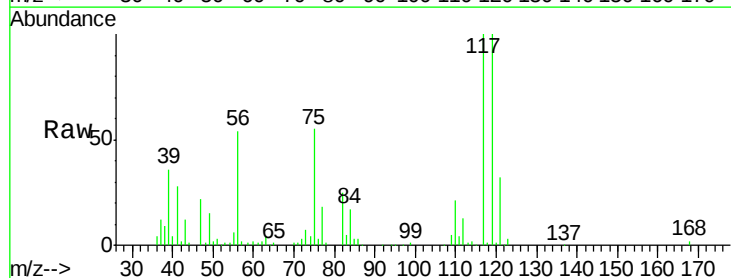
Manual Integrations
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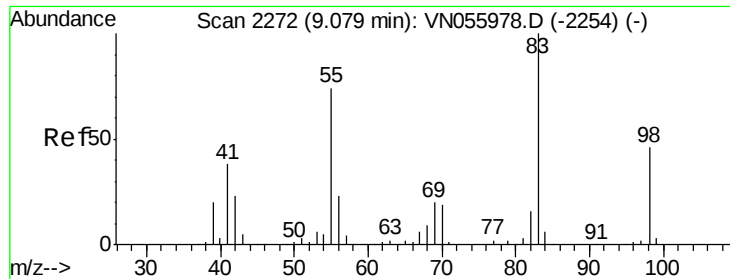
MMDadoda
6/14/2019 9:37:04 AM



#38
Carbon Tetrachloride
Concen: 53.210 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. 0.00 min
Lab File: VN056273.D
Acq: 13 Jun 2019 11:27

Tgt Ion	Ratio	Lower	Upper
117	100		
119	100.3	79.0	118.6
121	31.7	24.7	37.1





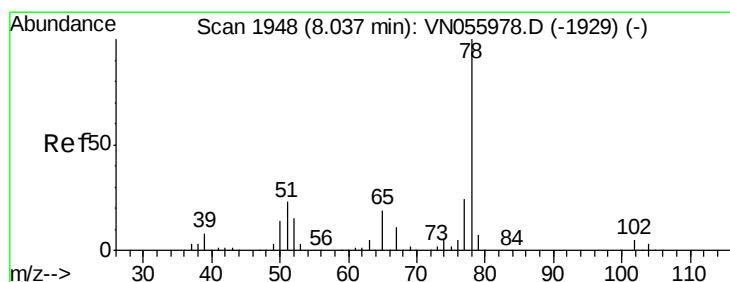
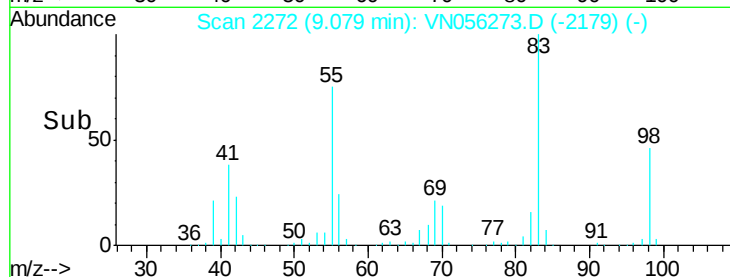
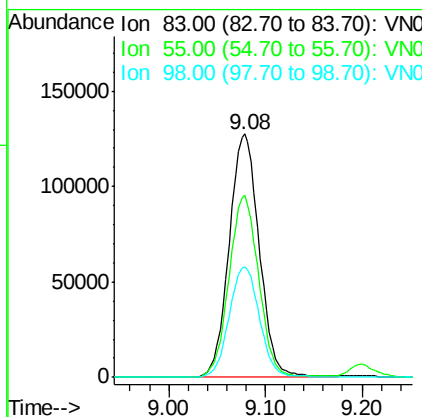
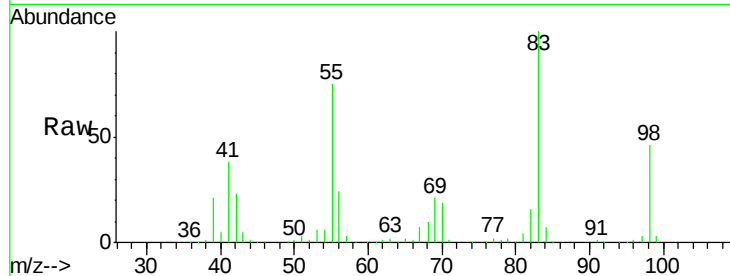
#39
Methvlcvclohexane
Concen: 51.079 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VN056273.D
Acq: 13 Jun 2019 11:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
83	100		
55	74.7	59.3	88.9
98	45.6	36.6	54.8

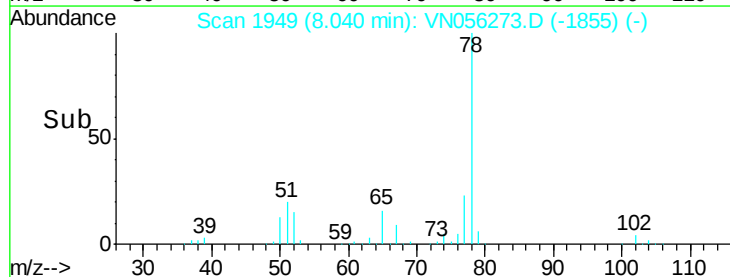
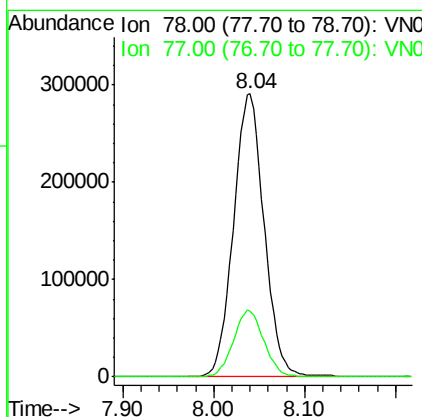
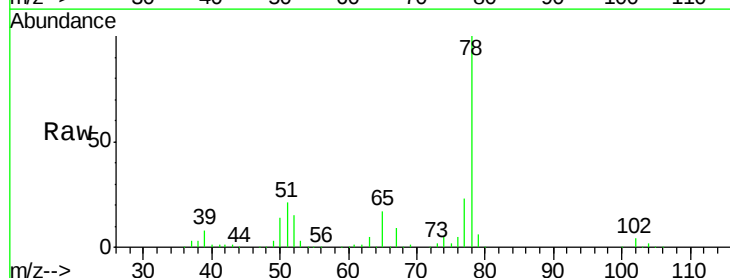
Manual Integrations
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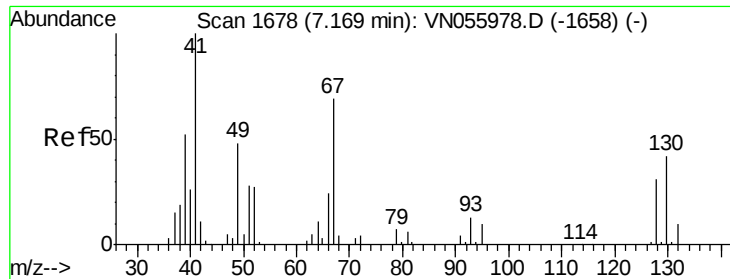
MMDadoda
6/14/2019 9:37:04 AM



#40
Benzene
Concen: 51.805 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN056273.D
Acq: 13 Jun 2019 11:27

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.3	18.8	28.2





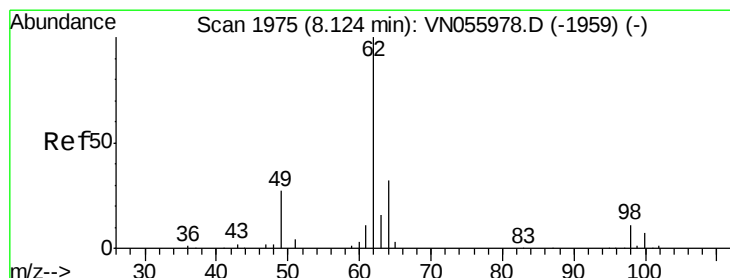
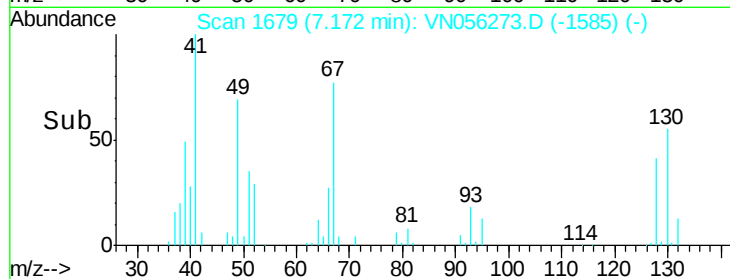
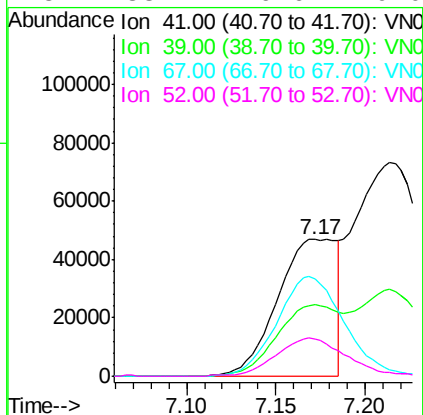
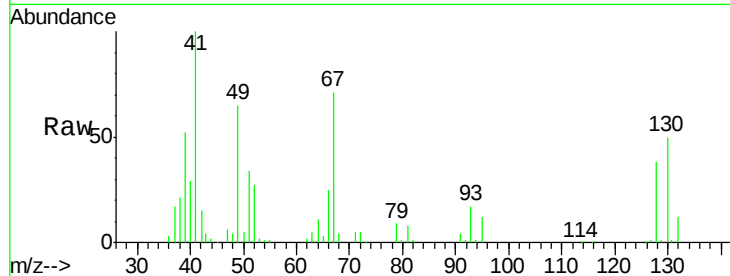
#41
Methacrylonitrile
Concen: 61.116 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. 0.00 min
Lab File: VN056273.D
Acq: 13 Jun 2019 11:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	41	Resp	108328
Ion Ratio	Lower	Upper	
41	100		
39	55.4	45.6	68.4
67	83.8	67.7	101.5
52	33.4	26.6	40.0

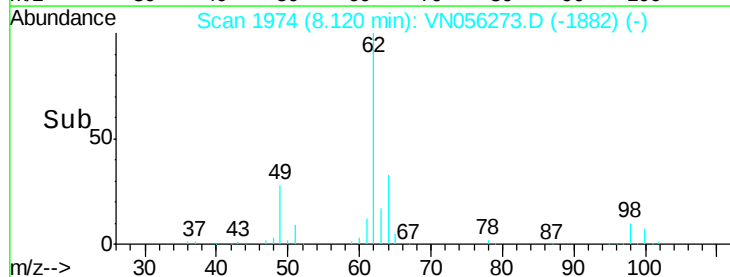
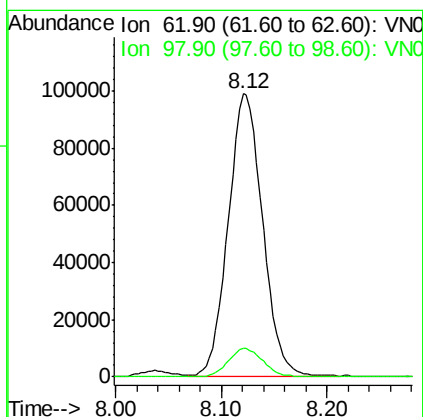
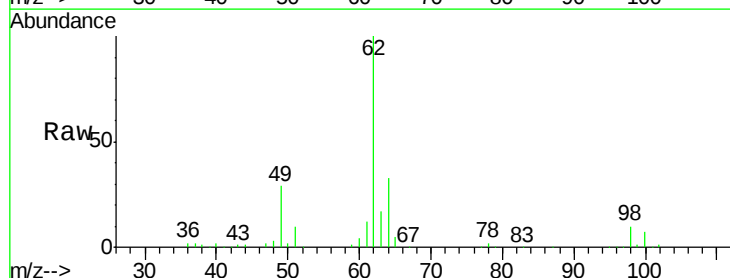
Manual Integrations
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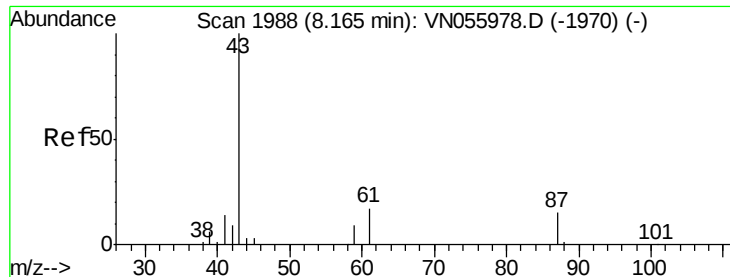
MMDadoda
6/14/2019 9:37:04 AM



#42
1,2-Dichloroethane
Concen: 52.628 ug/l
RT: 8.12 min Scan# 1974
Delta R.T. -0.00 min
Lab File: VN056273.D
Acq: 13 Jun 2019 11:27

Tgt Ion	62	Resp	222621
Ion Ratio	Lower	Upper	
62	100		
98	10.2	0.0	20.2





#43

Isopropyl Acetate

Concen: 53.449 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN056273.D

Acq: 13 Jun 2019 11:27

Instrument :

MSVOA_N

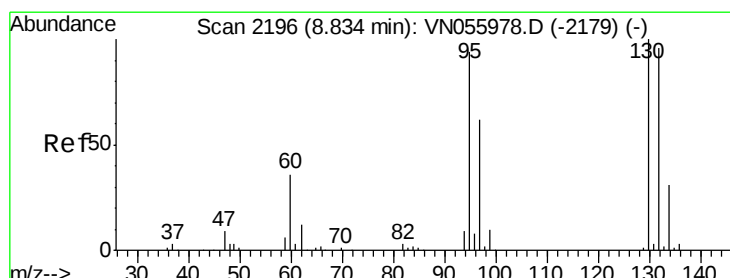
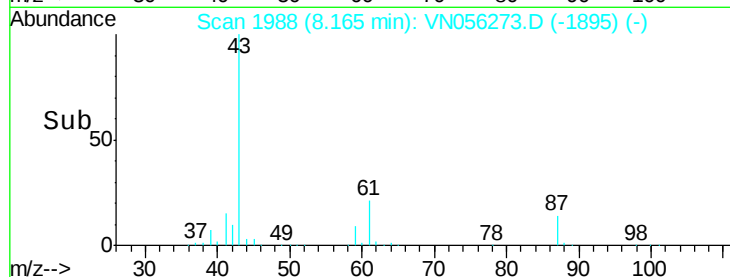
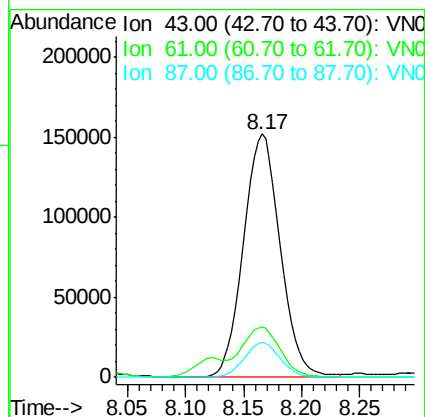
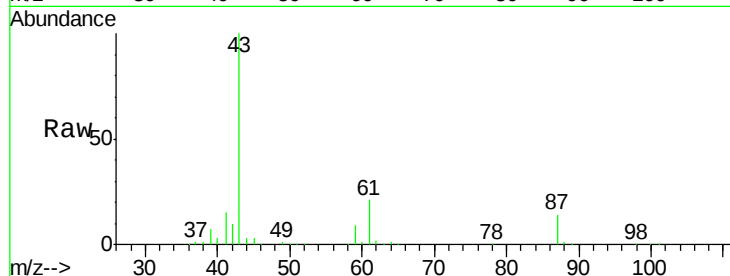
ClientSampleId :

VSTDCCC050

Tot Ion:	43	Resp:	333674
Ion Ratio	Lower	Upper	
43	100		
61	21.2	22.2	33.4#
87	14.1	11.4	17.2

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#44

Trichloroethene

Concen: 50.071 ug/l

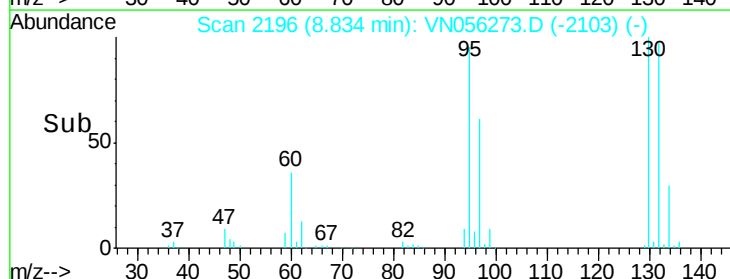
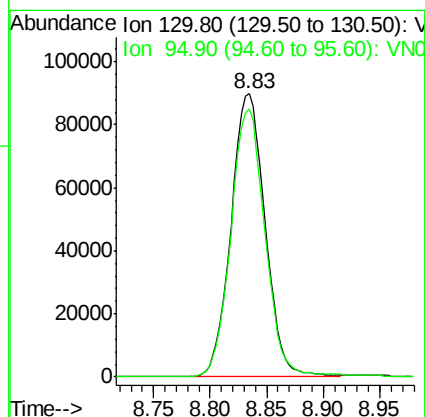
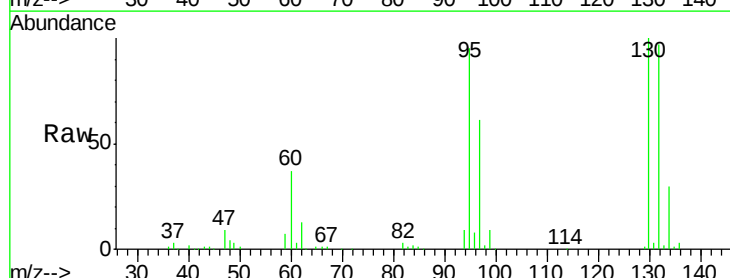
RT: 8.83 min Scan# 2196

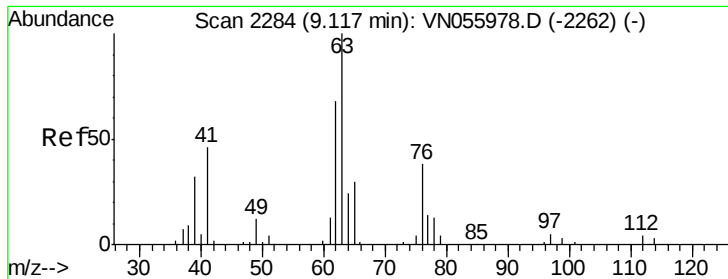
Delta R.T. 0.00 min

Lab File: VN056273.D

Acq: 13 Jun 2019 11:27

Tgt Ion:	130	Resp:	189210
Ion Ratio	Lower	Upper	
130	100		
95	94.6	0.0	188.0





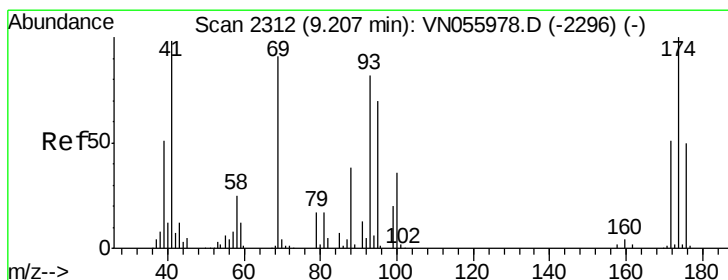
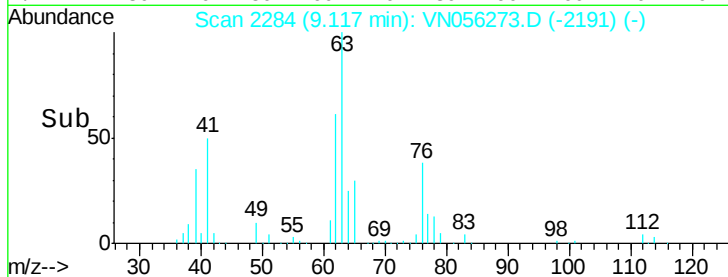
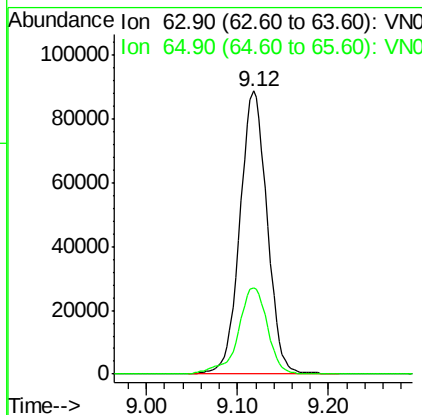
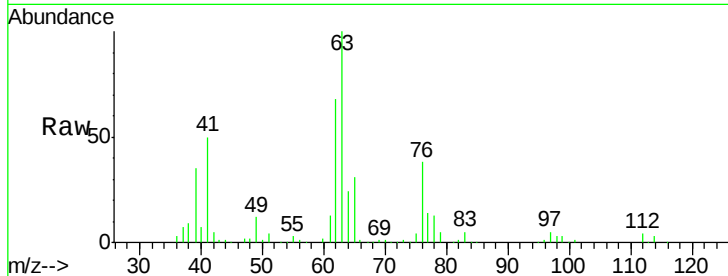
#45
 1,2-Dichloropropane
 Concen: 54.862 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. 0.00 min
 Lab File: VN056273.D
 Acq: 13 Jun 2019 11:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion: 63 Resp: 184800
 Ion Ratio Lower Upper
 63 100
 65 30.5 24.6 36.8

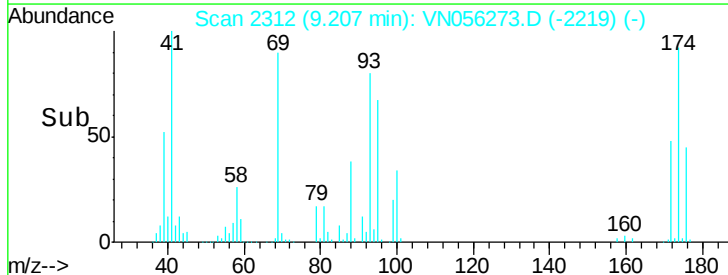
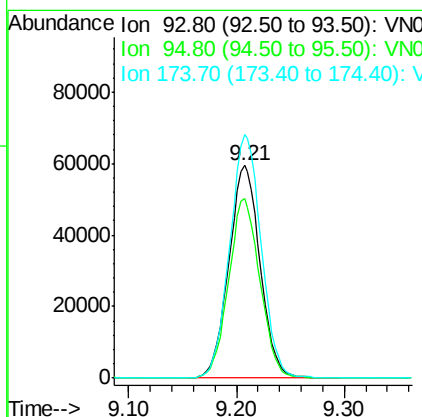
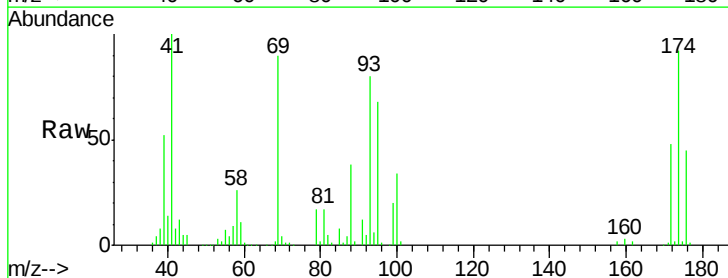
Manual Integrations
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#46
 Dibromomethane
 Concen: 54.487 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. 0.00 min
 Lab File: VN056273.D
 Acq: 13 Jun 2019 11:27

Tgt Ion: 93 Resp: 120019
 Ion Ratio Lower Upper
 93 100
 95 84.5 66.7 100.1
 174 115.4 96.4 144.6





#47

Bromodichloromethane

Concen: 58.121 ug/l

RT: 9.40 min Scan# 2372

Delta R.T. -0.00 min

Lab File: VN056273.D

Acq: 13 Jun 2019 11:27

Instrument :

MSVOA_N

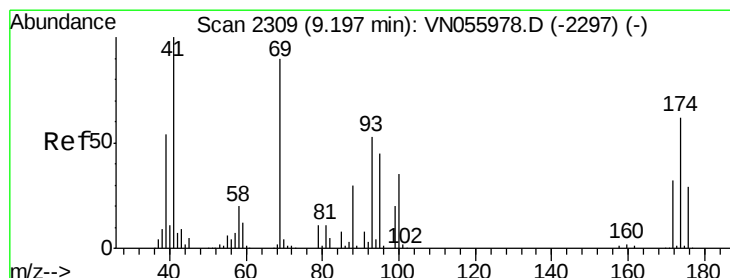
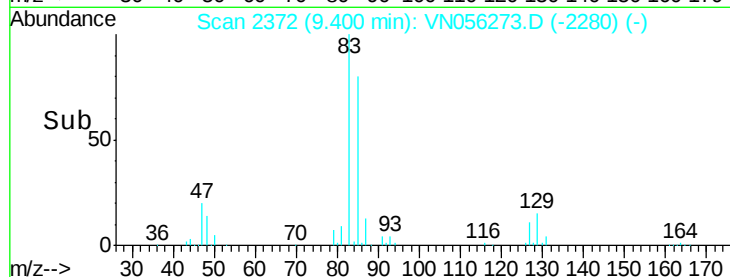
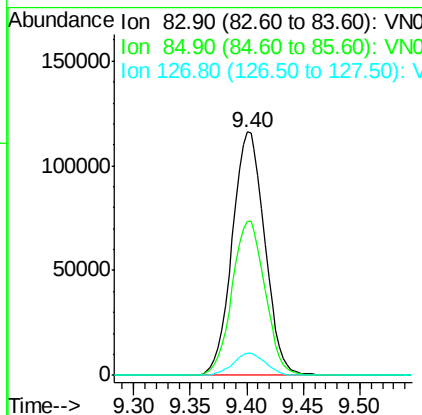
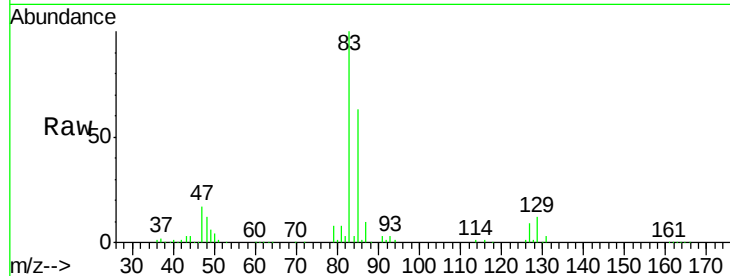
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	232029
Ion Ratio	Lower	Upper	
83	100		
85	63.5	52.2	78.2
127	9.1	7.4	11.0

Manual Integrations
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#48

Methyl methacrylate

Concen: 56.992 ug/l

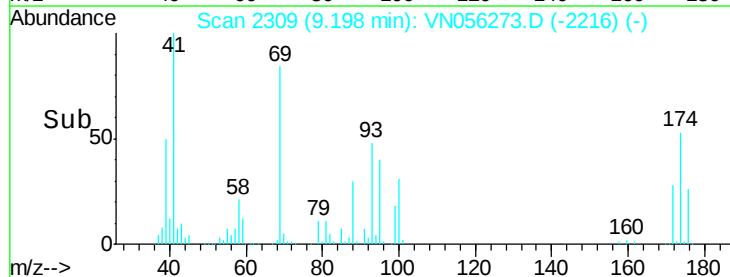
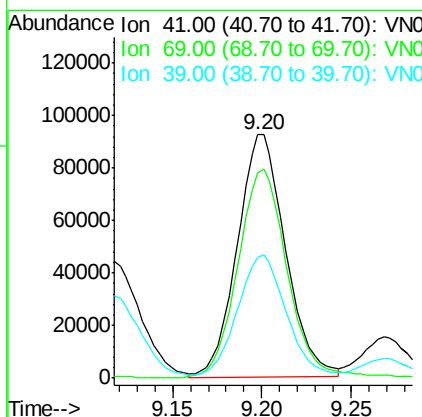
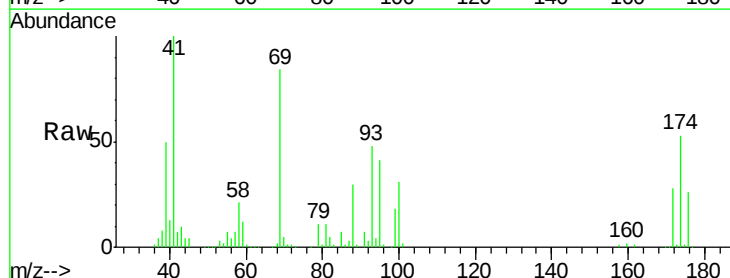
RT: 9.20 min Scan# 2309

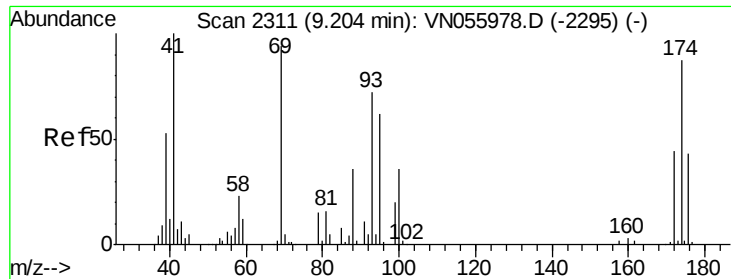
Delta R.T. 0.00 min

Lab File: VN056273.D

Acq: 13 Jun 2019 11:27

Tgt Ion:	41	Resp:	174064
Ion Ratio	Lower	Upper	
41	100		
69	88.4	71.0	106.6
39	51.8	44.2	66.2





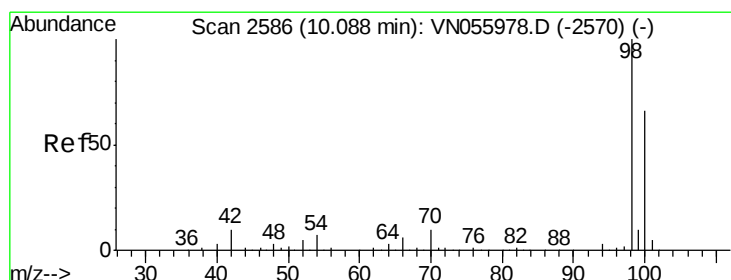
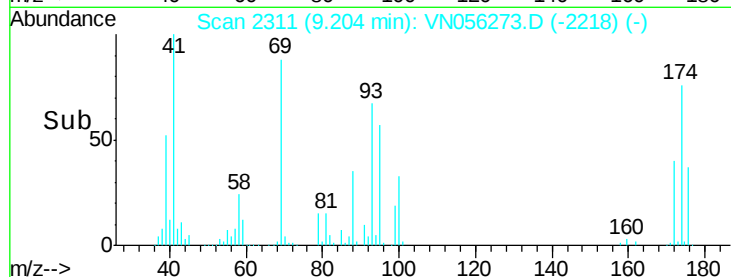
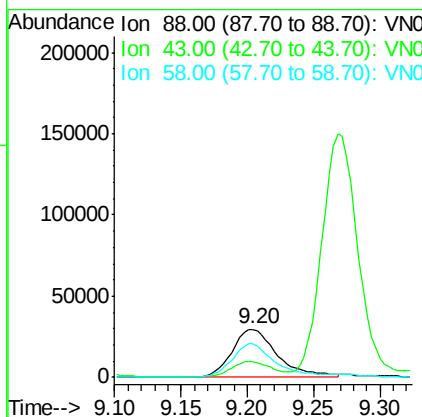
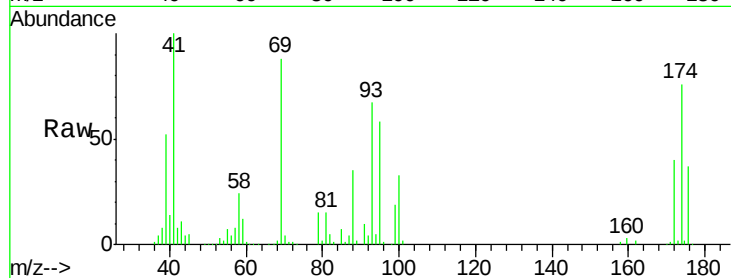
#49
1,4-Dioxane
Concen: 1069.100 ug/l
RT: 9.20 min Scan# 2311
Delta R.T. 0.00 min
Lab File: VN056273.D
Acq: 13 Jun 2019 11:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	88	Resp	70492
Ion	Ratio	Lower	Upper
88	100		
43	28.1	20.5	30.7
58	66.9	55.8	83.6

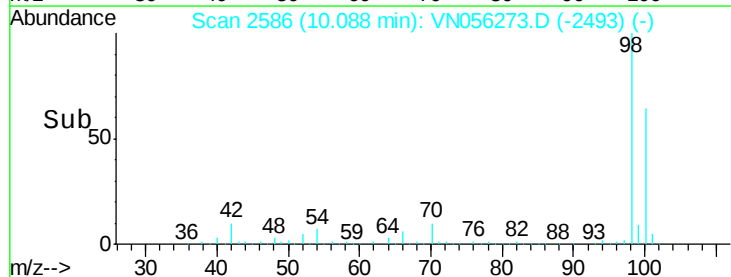
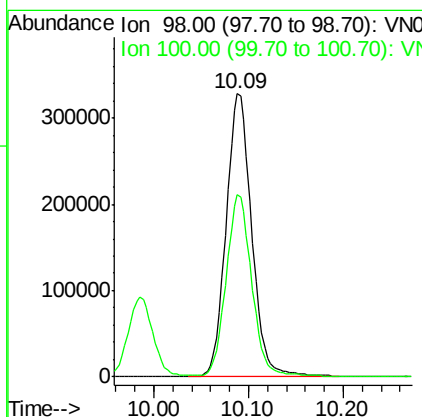
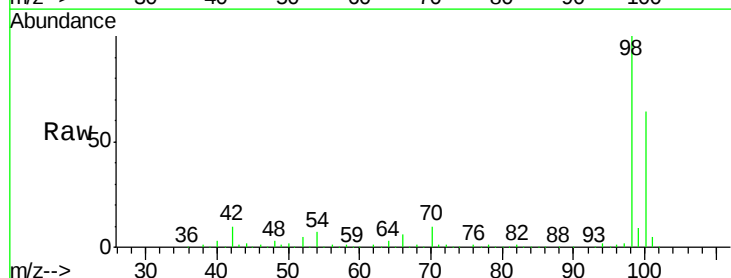
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#50
Toluene-d8
Concen: 51.916 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. 0.00 min
Lab File: VN056273.D
Acq: 13 Jun 2019 11:27

Tgt Ion	98	Resp	617180
Ion	Ratio	Lower	Upper
98	100		
100	64.4	51.9	77.9





#51

4-Methyl-2-Pentanone

Concen: 282.519 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN056273.D

Acq: 13 Jun 2019 11:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 1102941

Ion Ratio Lower Upper

43 100

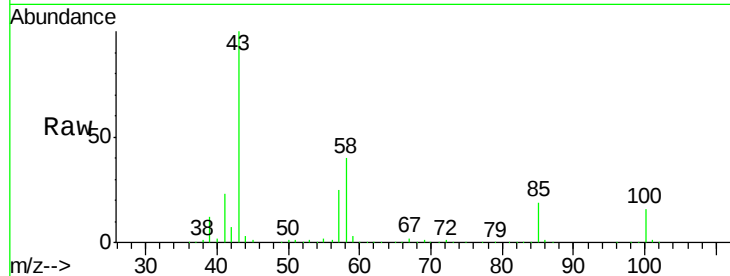
58 39.7 32.1 48.1

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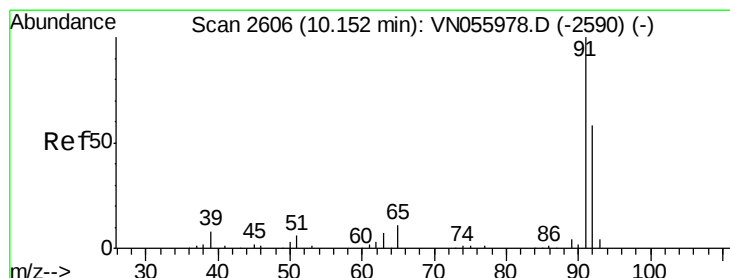
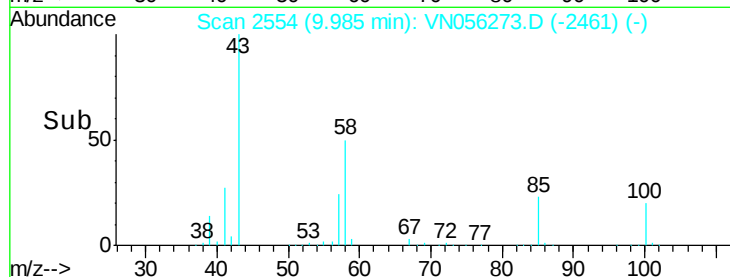
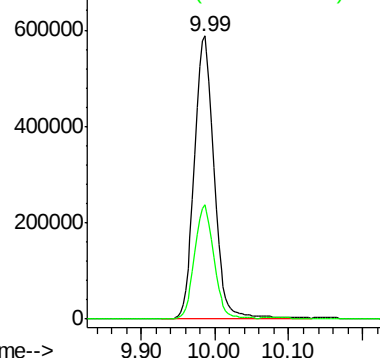
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 52.023 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. 0.00 min

Lab File: VN056273.D

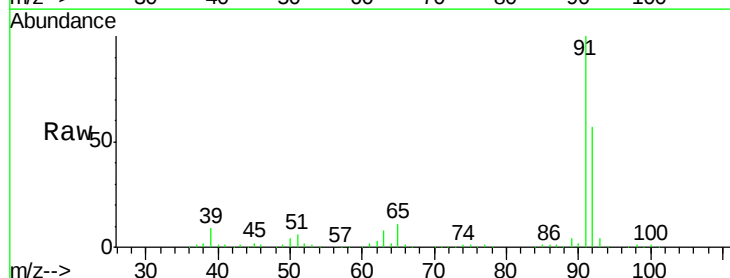
Acq: 13 Jun 2019 11:27

Tgt Ion: 92 Resp: 425713

Ion Ratio Lower Upper

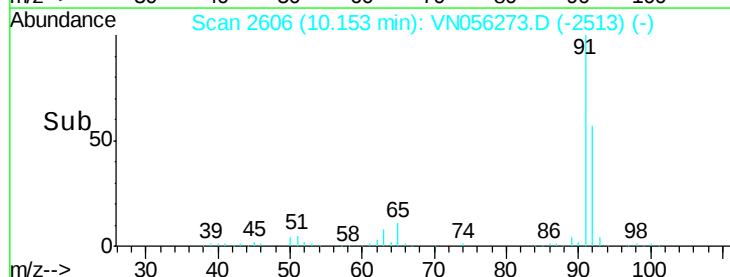
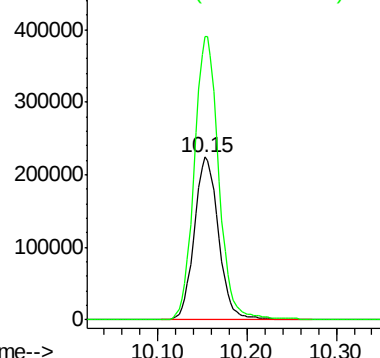
92 100

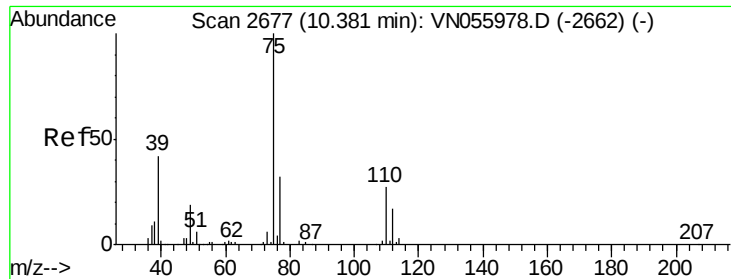
91 174.7 139.4 209.2



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





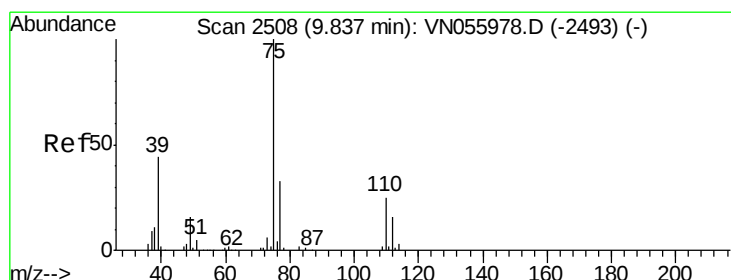
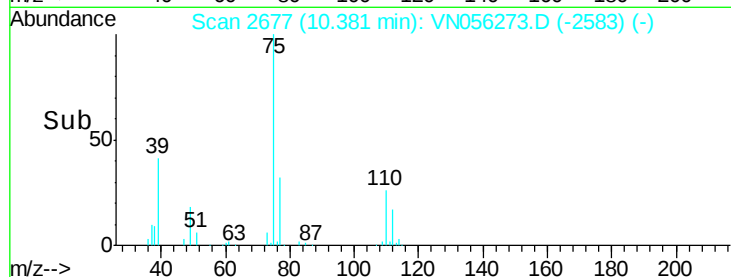
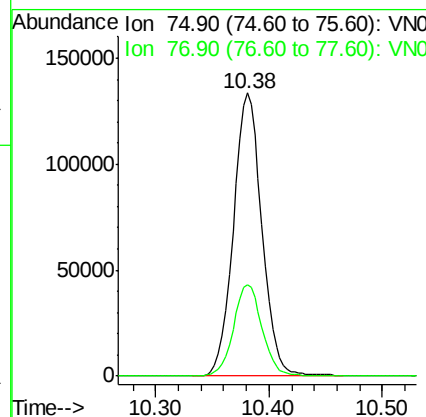
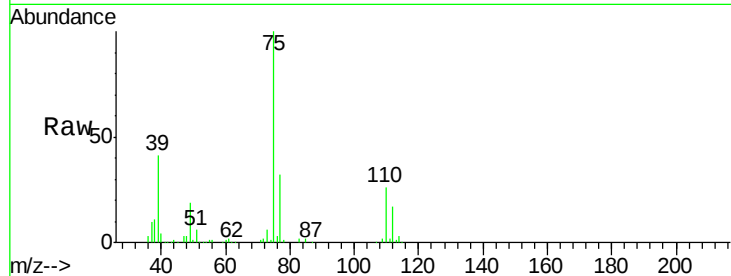
#53
t-1,3-Dichloropropene
Concen: 49.856 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VN056273.D
Acq: 13 Jun 2019 11:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.2	25.8	38.6

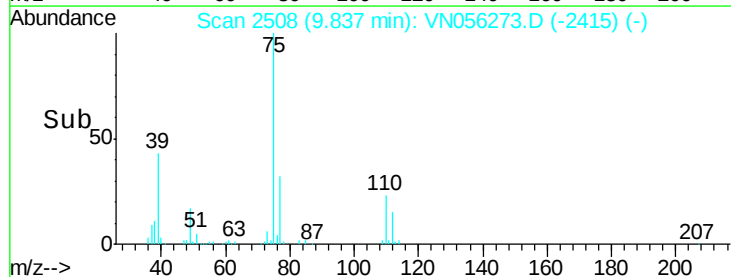
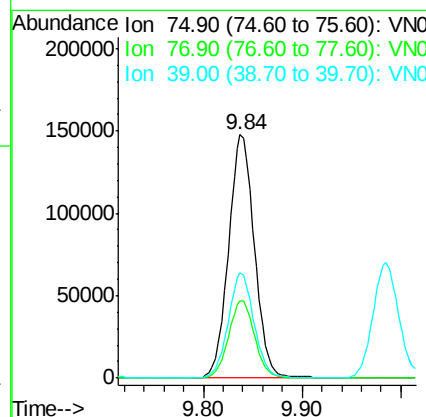
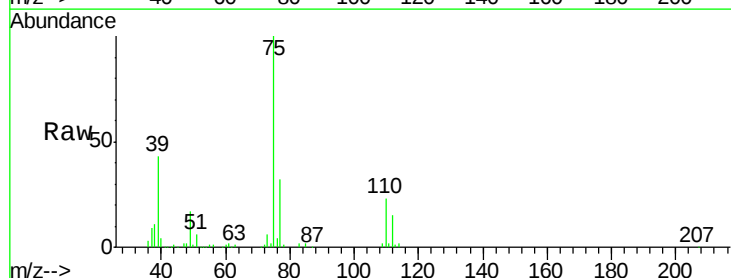
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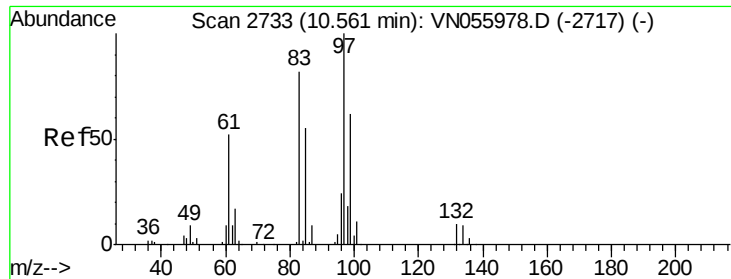
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#54
cis-1,3-Dichloropropene
Concen: 56.630 ug/l
RT: 9.84 min Scan# 2508
Delta R.T. 0.00 min
Lab File: VN056273.D
Acq: 13 Jun 2019 11:27

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.4	38.0
39	43.2	36.3	54.5





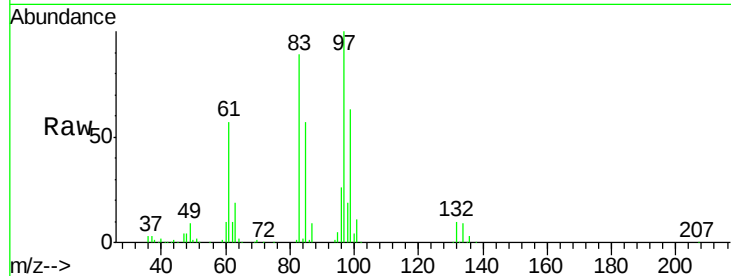
#55
 1,1,2-Trichloroethane
 Concen: 54.187 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN056273.D
 Acq: 13 Jun 2019 11:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

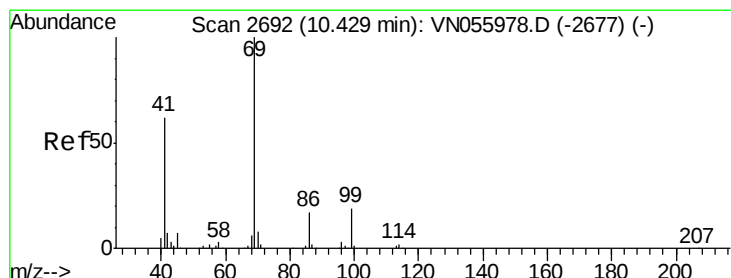
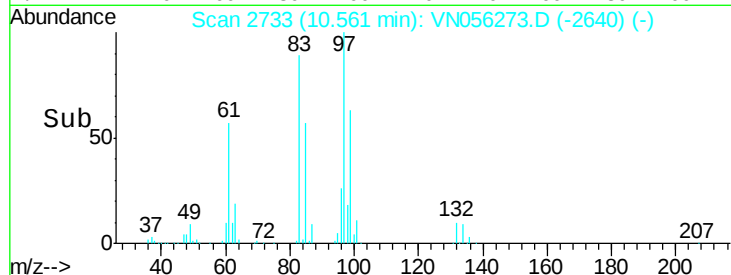
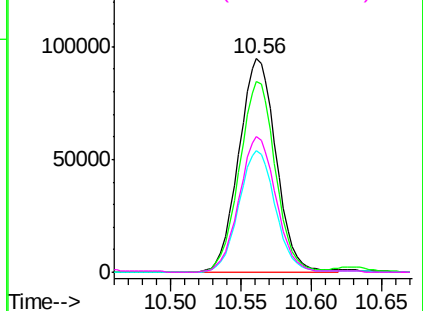
Tot Ion:	97	Resp:	175645
Ion	Ratio	Lower	Upper
97	100		
83	89.0	67.0	100.6
85	56.7	44.0	66.0
99	63.3	50.6	75.8

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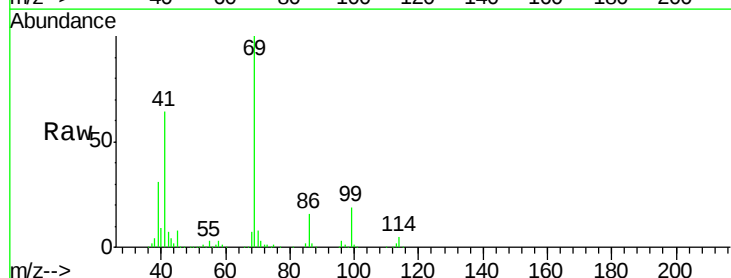


Abundance Ion 96.90 (96.60 to 97.60): VNC
 Ion 82.90 (82.60 to 83.60): VNC
 Ion 84.90 (84.60 to 85.60): VNC
 Ion 98.90 (98.60 to 99.60): VNC

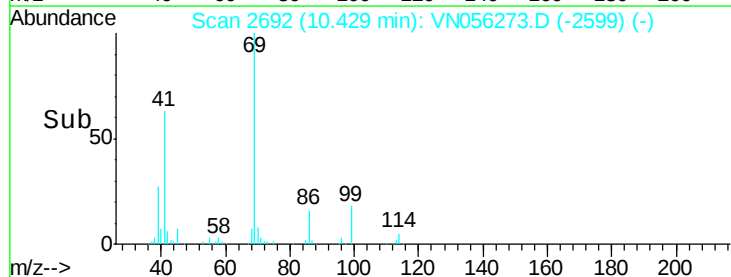
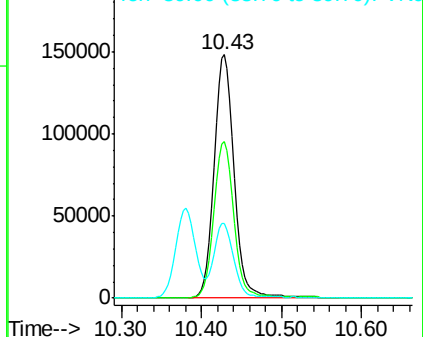


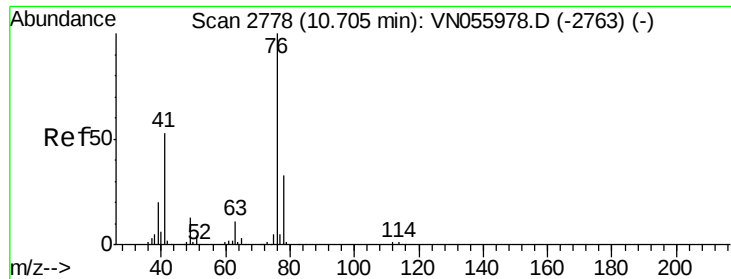
#56
 Ethyl methacrylate
 Concen: 54.883 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN056273.D
 Acq: 13 Jun 2019 11:27

Tgt Ion:	69	Resp:	259538
Ion	Ratio	Lower	Upper
69	100		
41	63.4	49.7	74.5
39	29.5	24.7	37.1



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





#57

1,3-Dichloropropane

Concen: 55.176 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. 0.00 min

Lab File: VN056273.D

Acq: 13 Jun 2019 11:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 290747

Ion Ratio Lower Upper

76 100

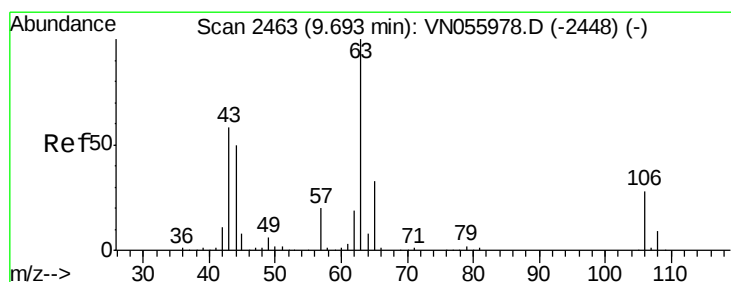
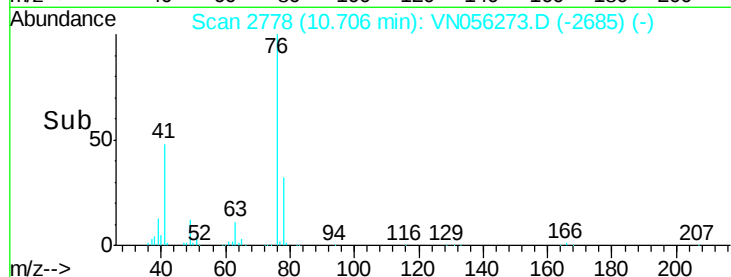
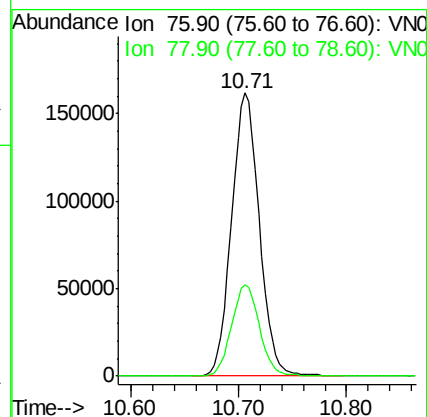
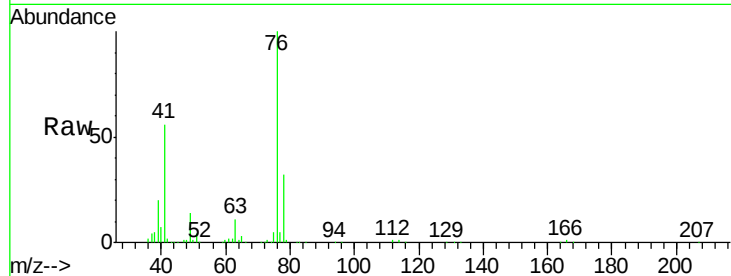
78 32.6 25.8 38.6

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#58

2-Chloroethyl Vinyl ether

Concen: 224.623 ug/l

RT: 9.69 min Scan# 2463

Delta R.T. 0.00 min

Lab File: VN056273.D

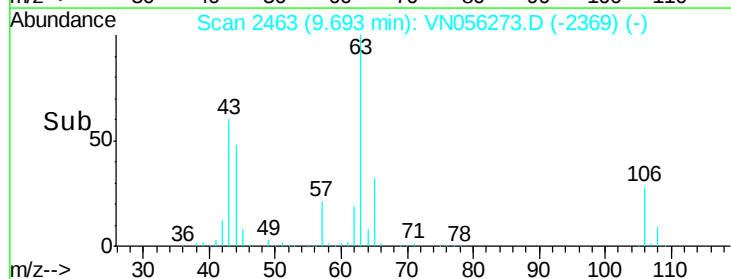
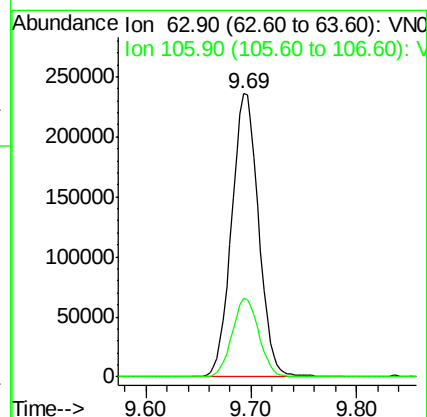
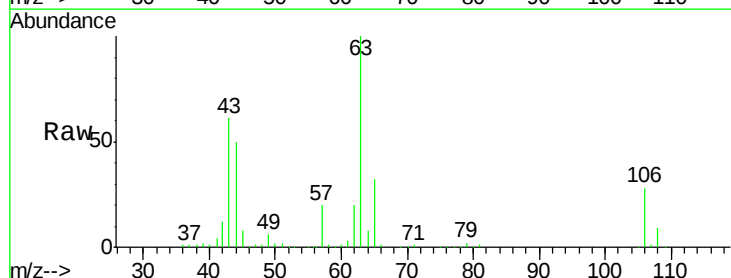
Acq: 13 Jun 2019 11:27

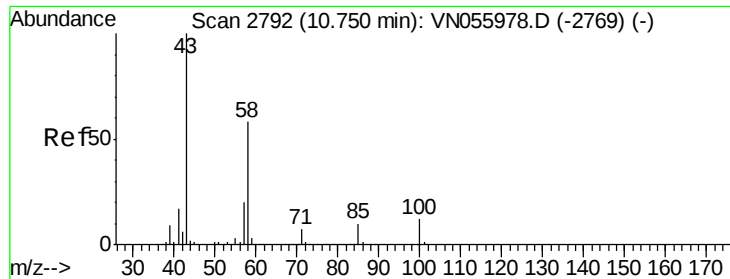
Tgt Ion: 63 Resp: 418148

Ion Ratio Lower Upper

63 100

106 27.6 22.7 34.1





#59

2-Hexanone

Concen: 282.259 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. 0.00 min

Lab File: VN056273.D

Acq: 13 Jun 2019 11:27

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion: 43 Resp: 798650

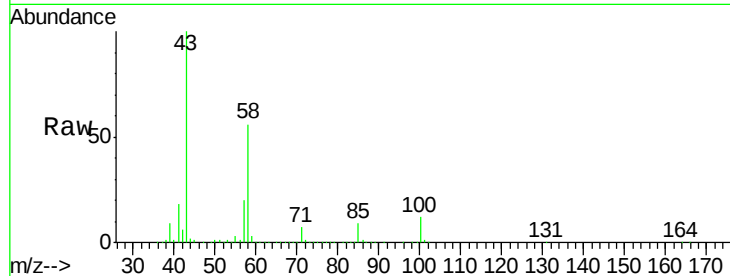
Ion Ratio Lower Upper

43 100

58 56.1 28.2 84.7

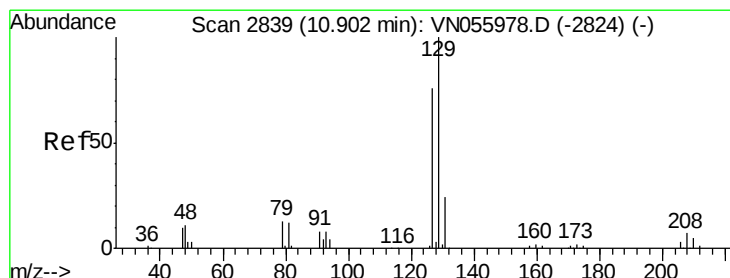
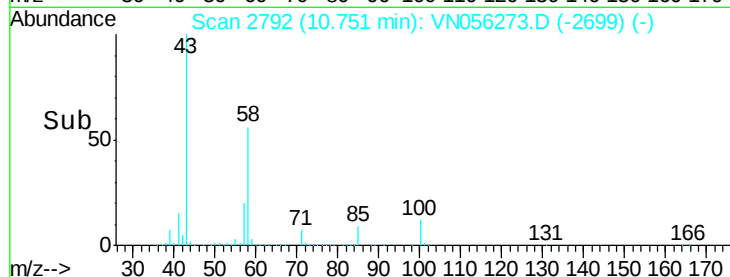
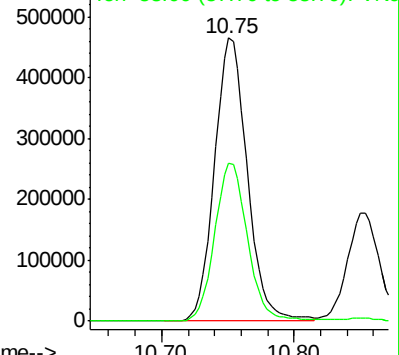
Manual Integrations
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6/14/2019 9:37:04 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#60

Dibromochloromethane

Concen: 52.035 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. 0.00 min

Lab File: VN056273.D

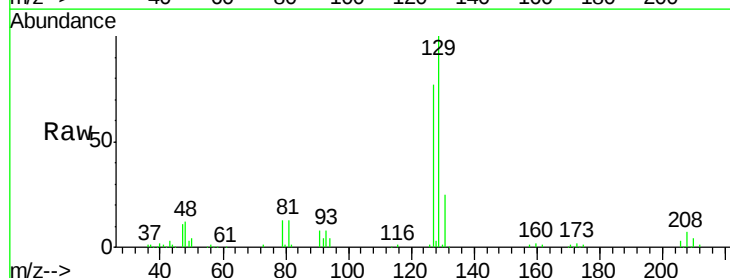
Acq: 13 Jun 2019 11:27

Tgt Ion: 129 Resp: 186400

Ion Ratio Lower Upper

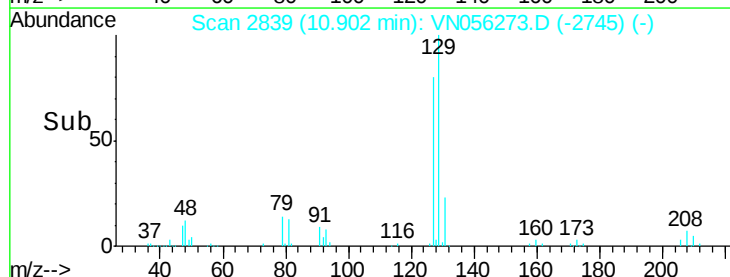
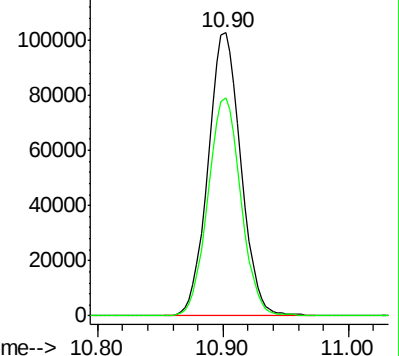
129 100

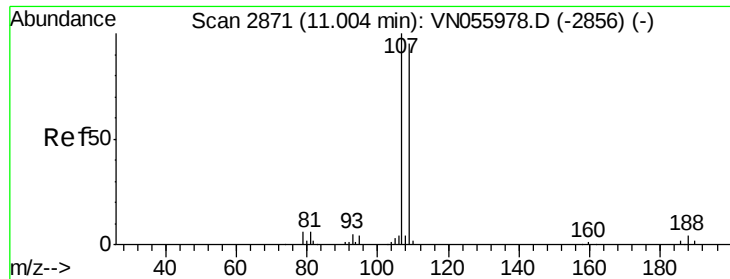
127 77.3 38.1 114.3



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V





#61

1,2-Dibromoethane

Concen: 55.005 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. 0.00 min

Lab File: VN056273.D

Acq: 13 Jun 2019 11:27

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion: 107 Resp: 182273

Ion Ratio Lower Upper

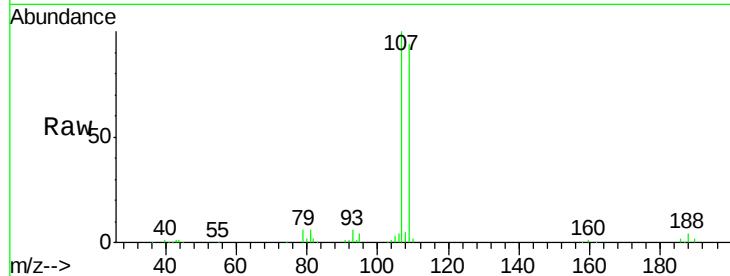
107 100

109 93.6 74.8 112.2

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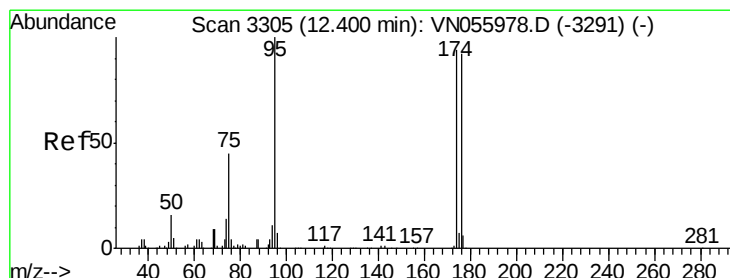
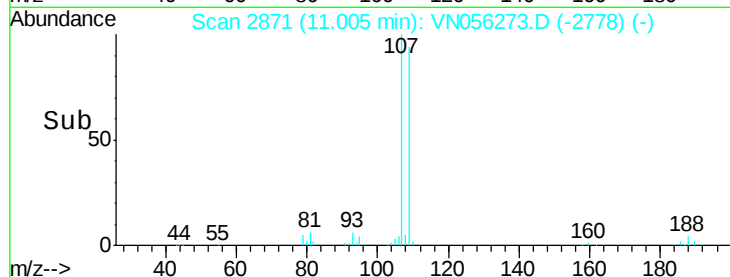
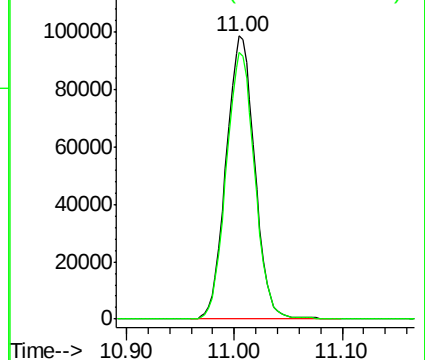
MMDadoda

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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 52.873 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN056273.D

Acq: 13 Jun 2019 11:27

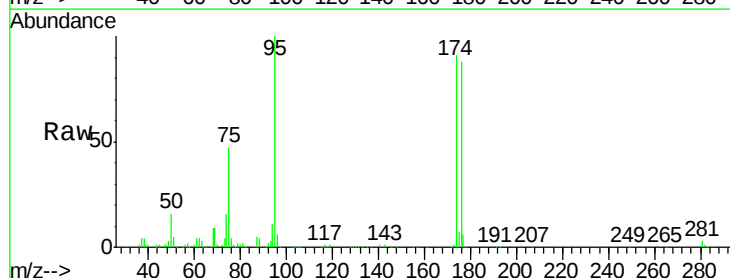
Tgt Ion: 95 Resp: 213758

Ion Ratio Lower Upper

95 100

174 92.3 0.0 191.0

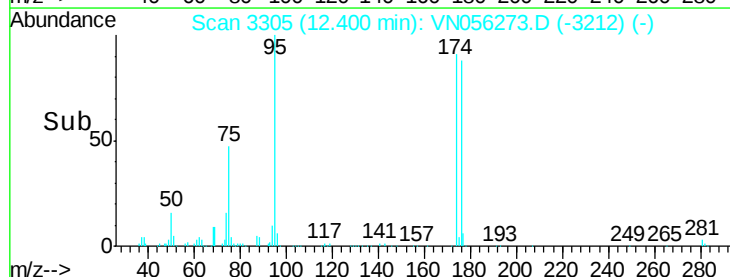
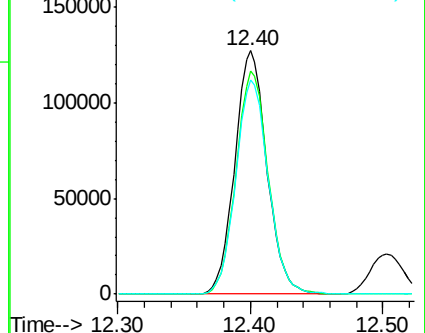
176 89.2 0.0 185.2

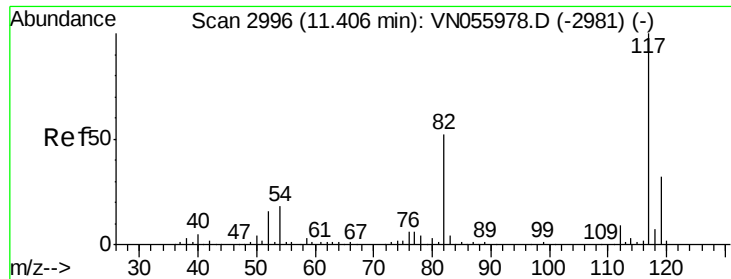


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





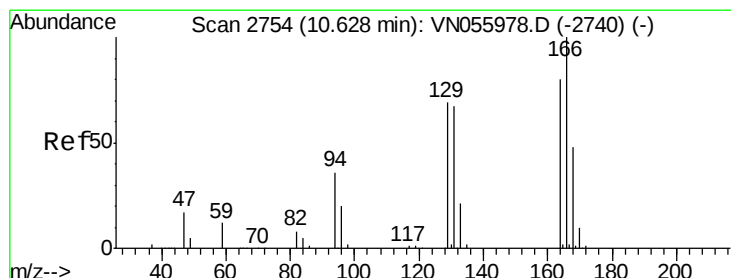
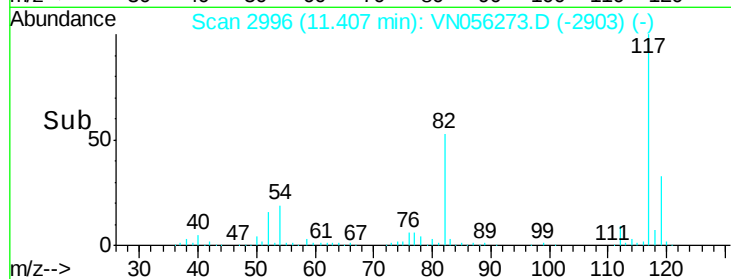
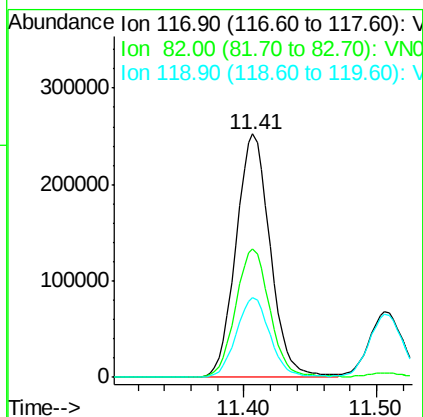
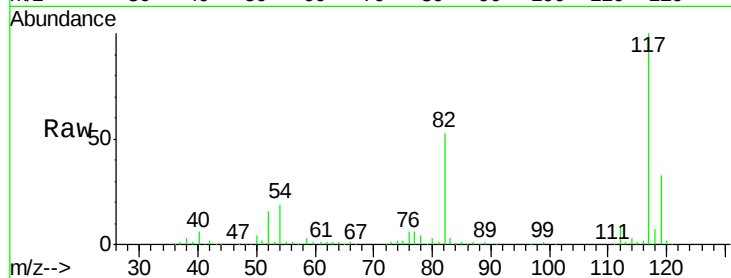
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056273.D
Acq: 13 Jun 2019 11:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.6	41.8	62.8
119	32.8	25.4	38.0

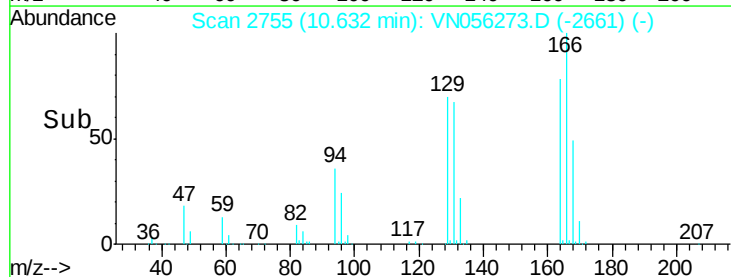
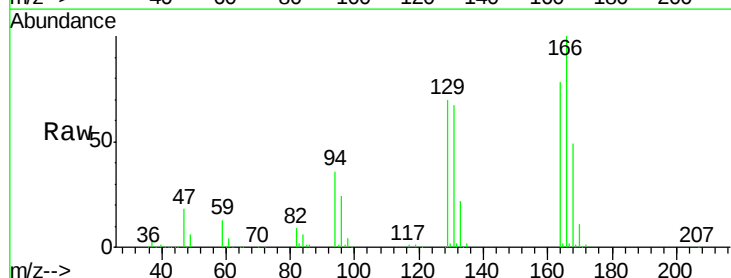
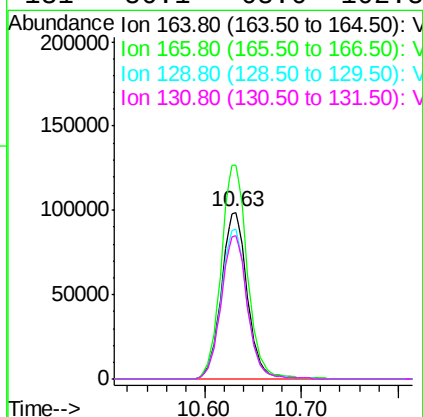
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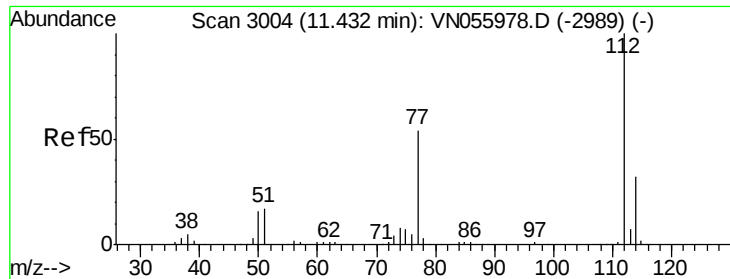
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#64
Tetrachloroethene
Concen: 46.811 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN056273.D
Acq: 13 Jun 2019 11:27

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.3	103.0	154.6
129	89.8	70.6	105.8
131	86.1	68.6	102.8





#65

Chlorobenzene

Concen: 51.956 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN056273.D

Acq: 13 Jun 2019 11:27

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion:112 Resp: 468562

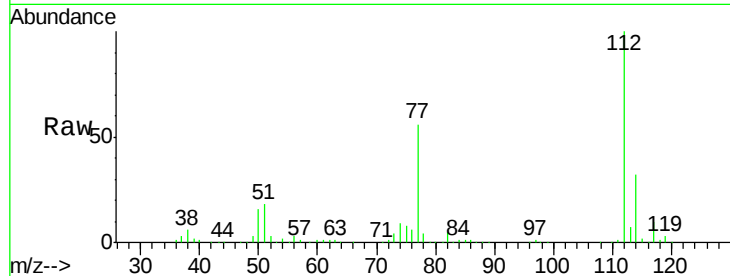
Ion Ratio Lower Upper

112 100

114 32.2 26.2 39.4

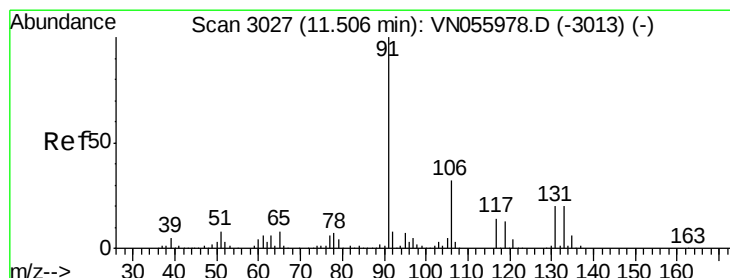
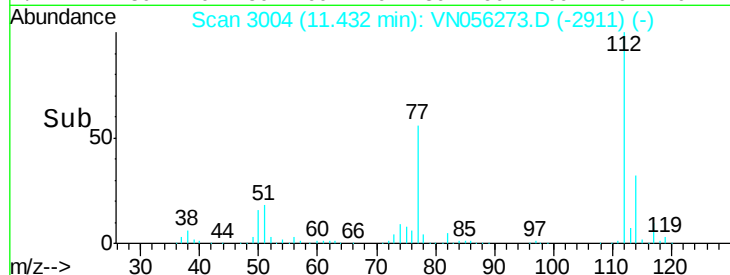
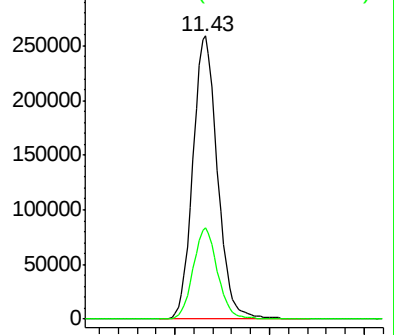
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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 56.014 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. 0.00 min

Lab File: VN056273.D

Acq: 13 Jun 2019 11:27

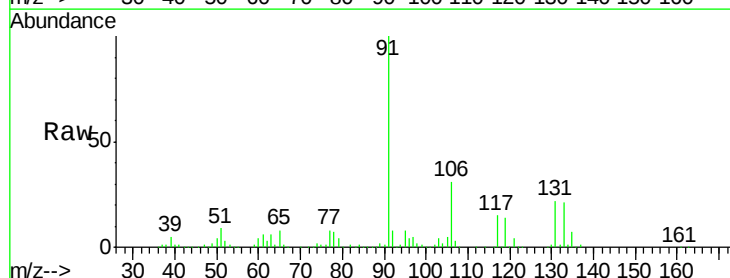
Tgt Ion:131 Resp: 174425

Ion Ratio Lower Upper

131 100

133 95.9 48.0 144.0

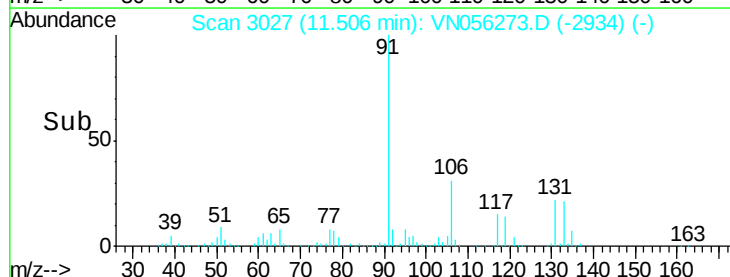
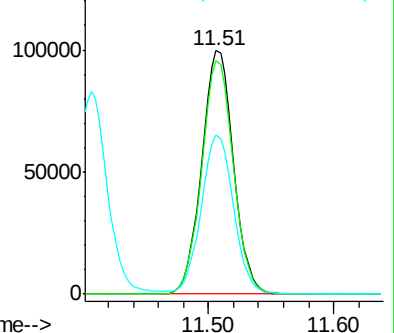
119 67.1 33.1 99.5

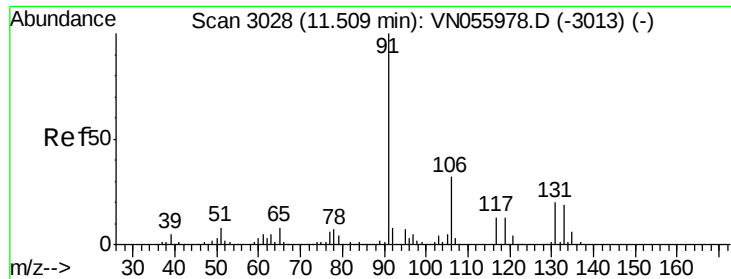


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





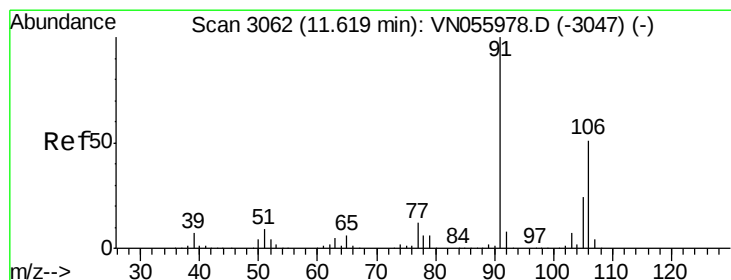
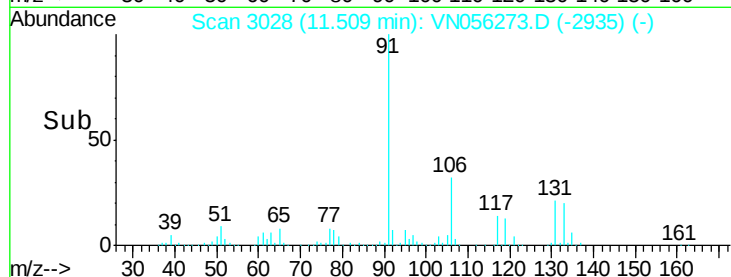
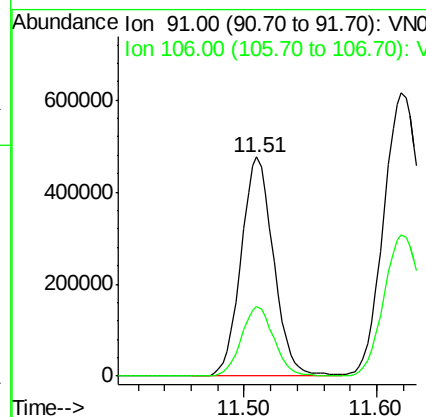
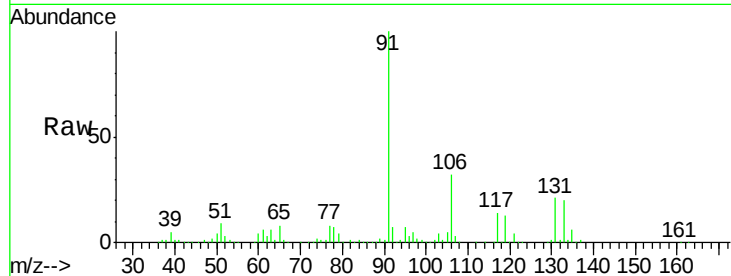
#67
Ethyl Benzene
Concen: 51.793 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN056273.D
Acq: 13 Jun 2019 11:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 812197
Ion Ratio Lower Upper
91 100
106 31.5 25.1 37.7

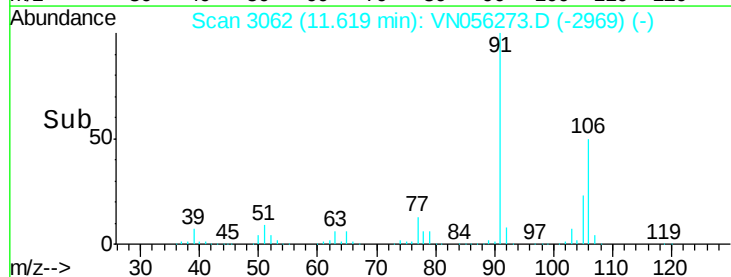
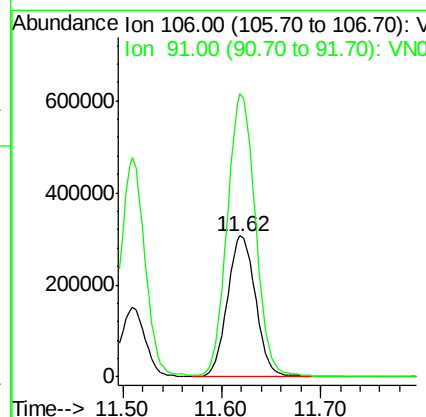
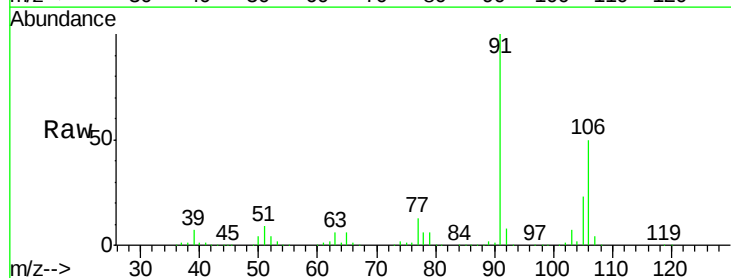
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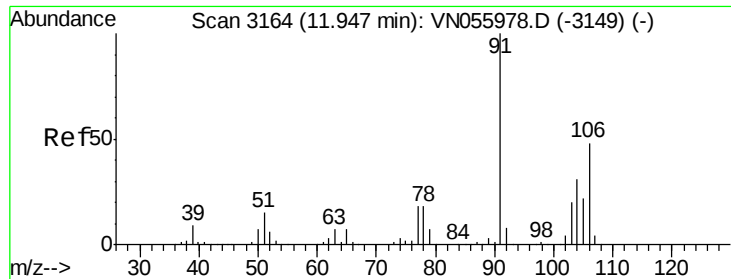
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#68
m/p-Xylenes
Concen: 103.192 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN056273.D
Acq: 13 Jun 2019 11:27

Tgt Ion: 106 Resp: 618178
Ion Ratio Lower Upper
106 100
91 199.9 159.3 238.9





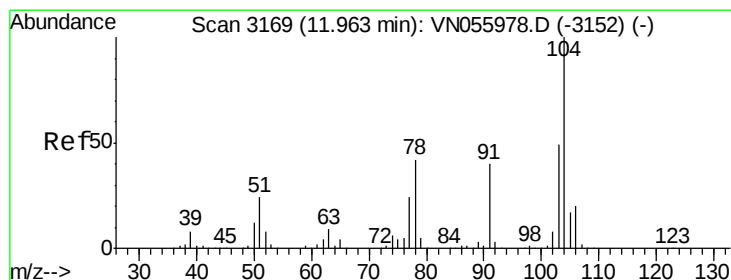
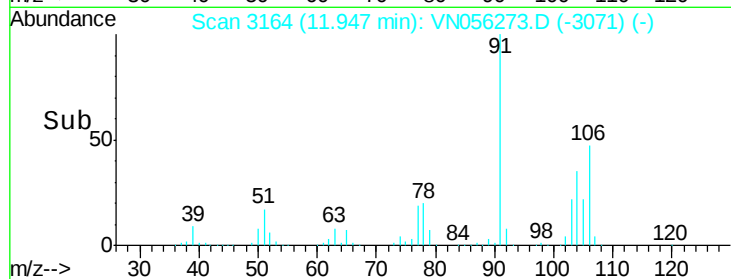
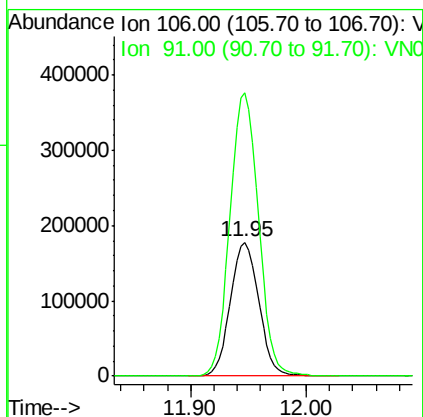
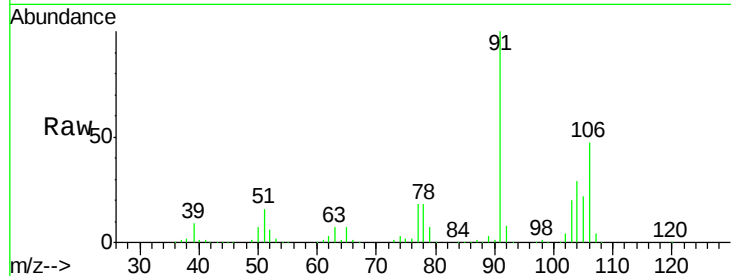
#69
o-Xylene
Concen: 51.341 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN056273.D
Acq: 13 Jun 2019 11:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:106 Resp: 302537
Ion Ratio Lower Upper
106 100
91 212.5 104.7 314.1

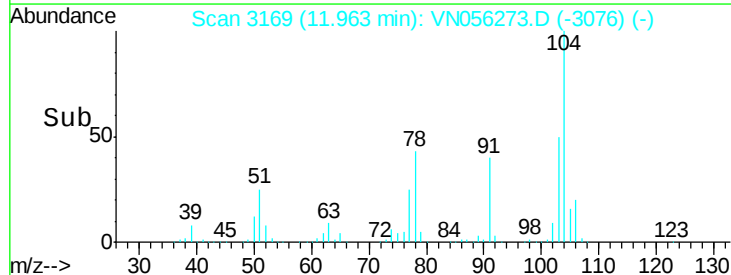
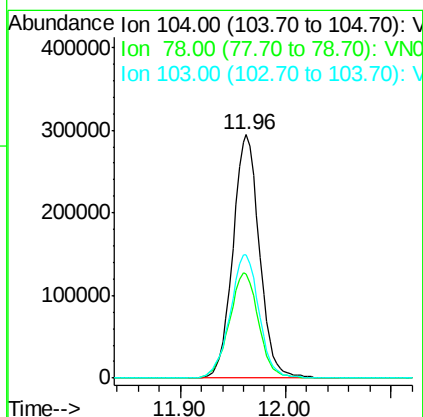
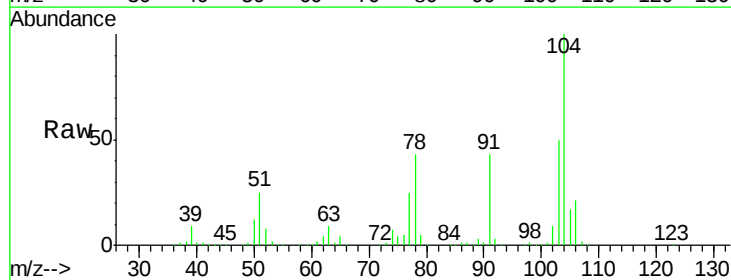
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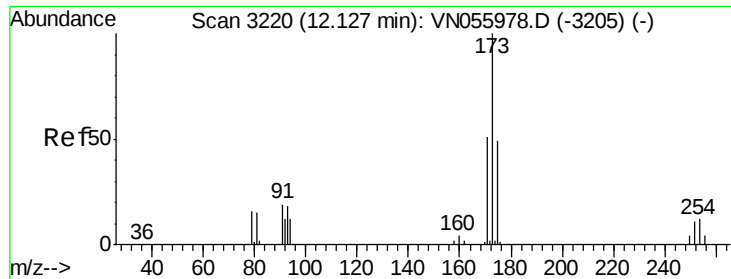
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#70
Styrene
Concen: 54.772 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN056273.D
Acq: 13 Jun 2019 11:27

Tgt Ion:104 Resp: 512809
Ion Ratio Lower Upper
104 100
78 47.7 37.8 56.6
103 55.3 44.2 66.2





#71

Bromoform

Concen: 52.361 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN056273.D

Acq: 13 Jun 2019 11:27

Instrument :

MSVOA_N

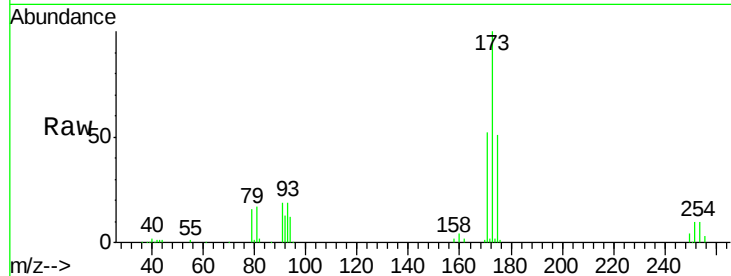
ClientSampleId :

VSTDCCC050

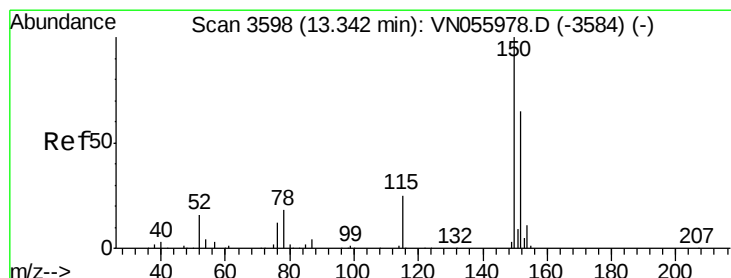
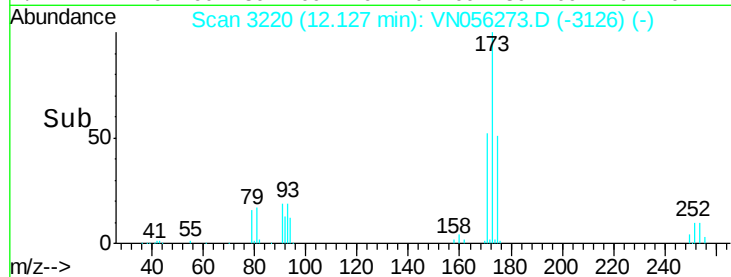
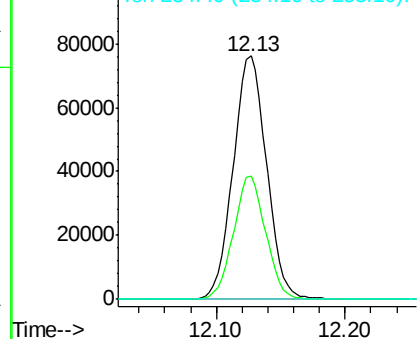
Tot Ion:	173	Resp:	137247
Ion Ratio	Lower	Upper	
173	100		
175	48.6	24.3	72.8
254	0.0	0.0	0.0

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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

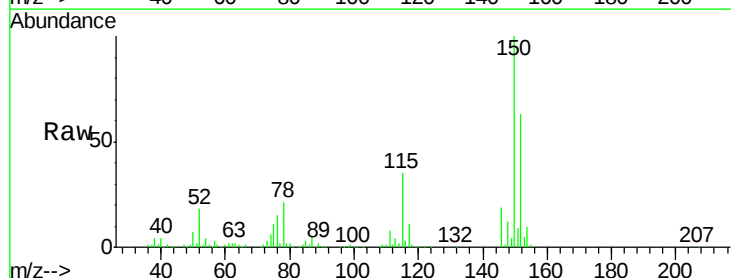
RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

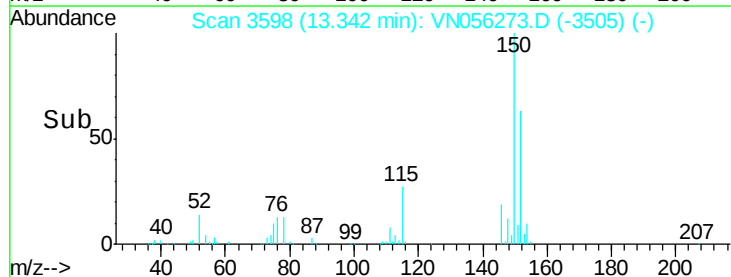
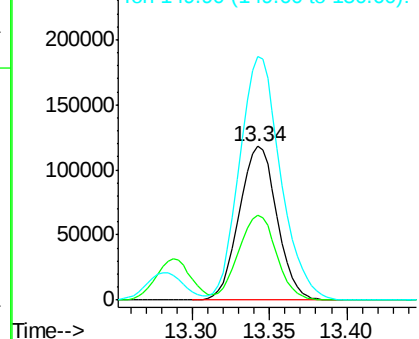
Lab File: VN056273.D

Acq: 13 Jun 2019 11:27

Tgt Ion:	152	Resp:	200558
Ion Ratio	Lower	Upper	
152	100		
115	55.5	27.0	81.0
150	172.9	0.0	343.2



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: 56.678 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN056273.D

Acq: 13 Jun 2019 11:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 105 Resp: 805633

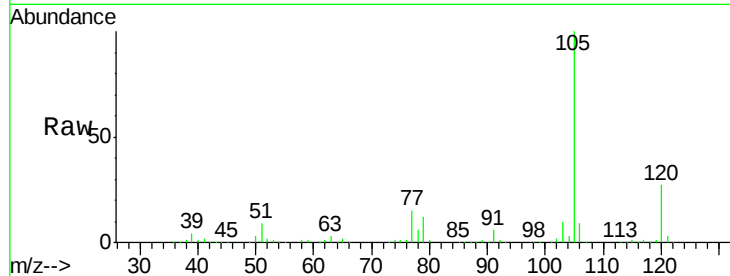
Ion Ratio Lower Upper

105 100

120 27.3 13.6 40.7

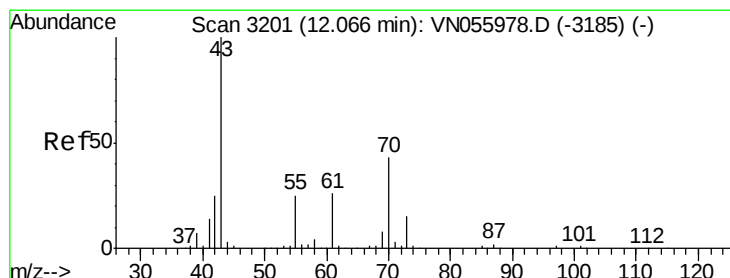
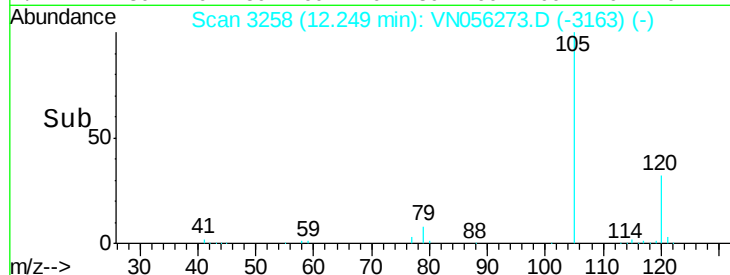
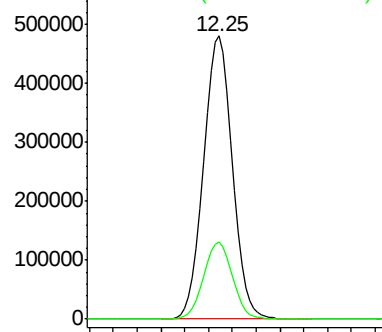
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 53.253 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN056273.D

Acq: 13 Jun 2019 11:27

Tgt Ion: 43 Resp: 284702

Ion Ratio Lower Upper

43 100

70 44.6 34.0 51.0

55 25.8 18.6 28.0

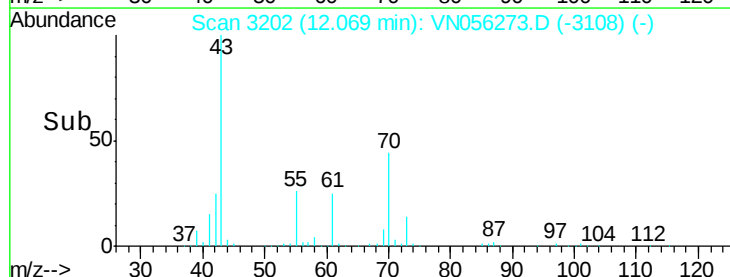
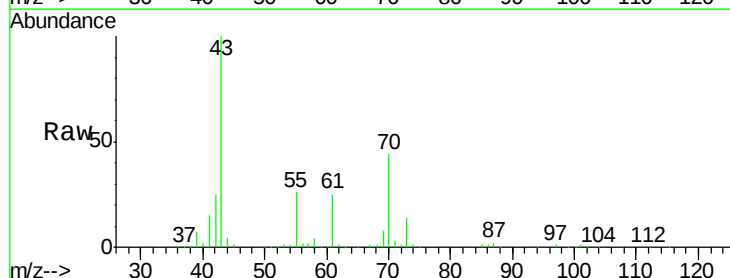
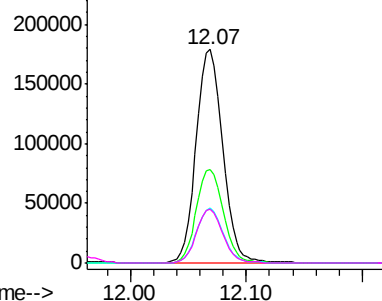
61 25.1 20.0 30.0

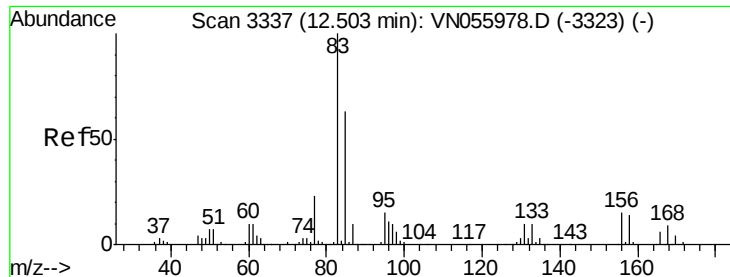
Abundance Ion 43.00 (42.70 to 43.70): V

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: 53.147 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN056273.D

Acq: 13 Jun 2019 11:27

Instrument :

MSVOA_N

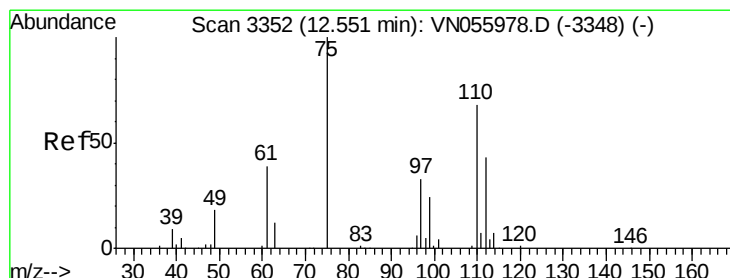
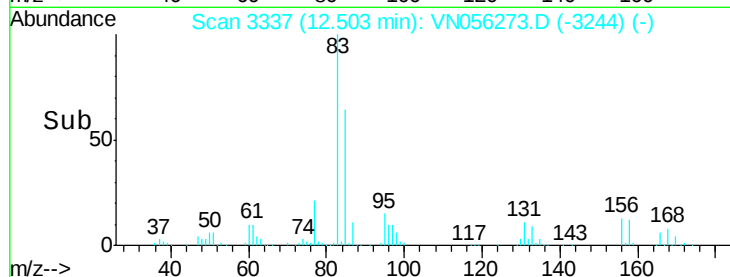
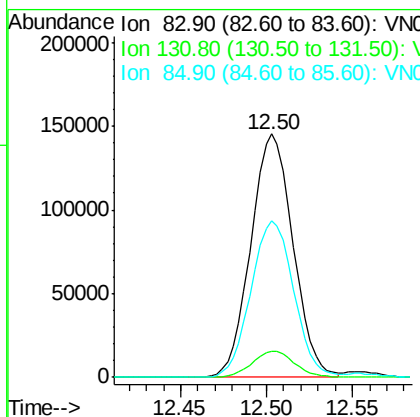
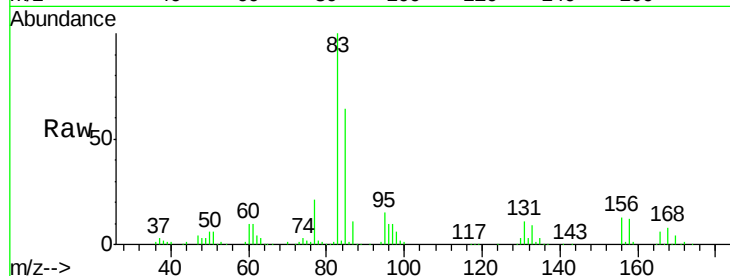
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	247442
Ion Ratio	Lower	Upper	
83	100		
131	10.8	5.4	16.2
85	65.2	32.4	97.0

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#76

1,2,3-Trichloropropane

Concen: 53.439 ug/l m

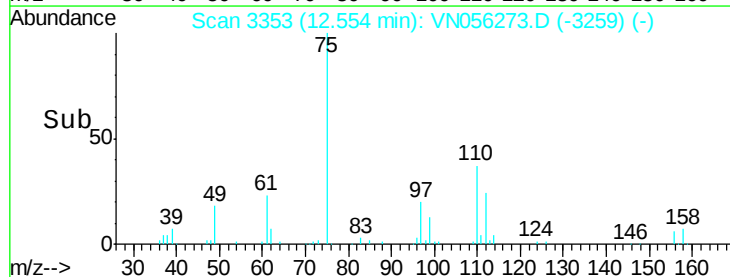
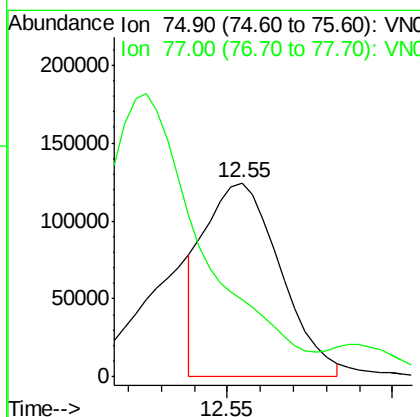
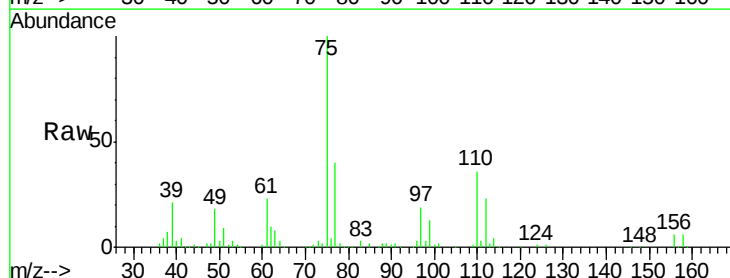
RT: 12.55 min Scan# 3353

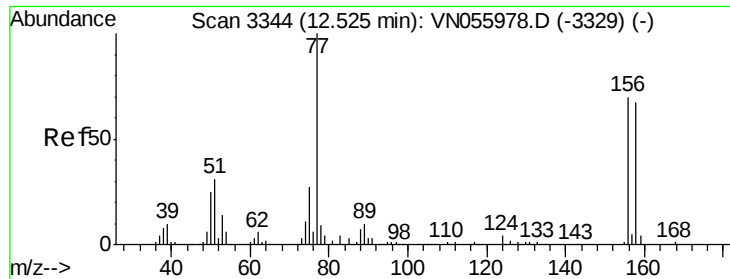
Delta R.T. 0.00 min

Lab File: VN056273.D

Acq: 13 Jun 2019 11:27

Tgt Ion:	75	Resp:	197209
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 49.329 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN056273.D

Acq: 13 Jun 2019 11:27

Instrument :

MSVOA_N

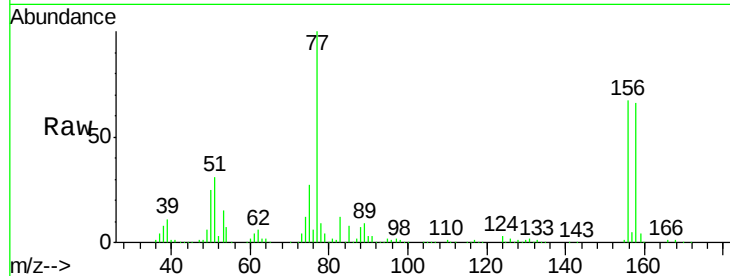
ClientSampleId :

VSTDCCC050

Tot Ion	Ratio	Lower	Upper
156	100		
77	184.0	90.8	272.5
158	98.8	49.3	147.8

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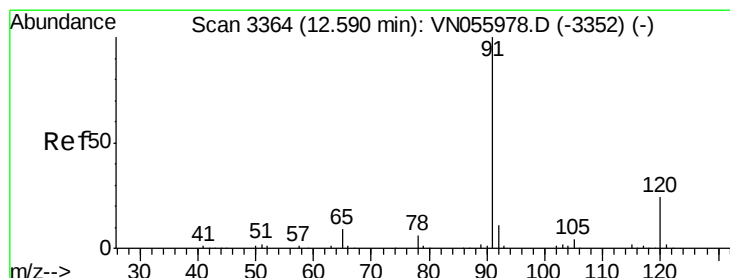
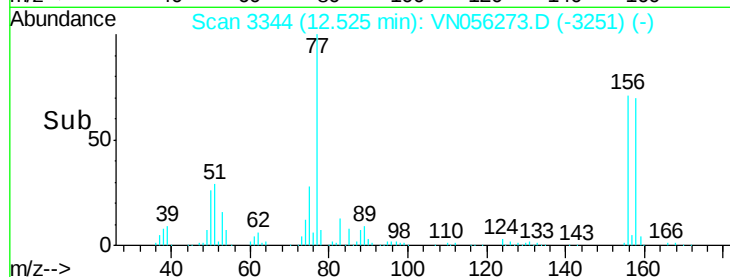
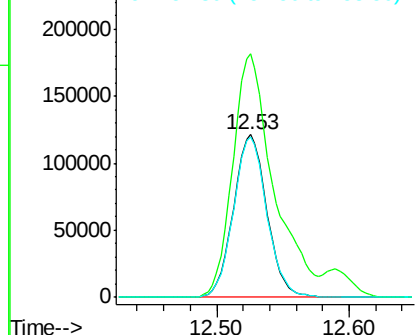


Abundance

Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 52.245 ug/l

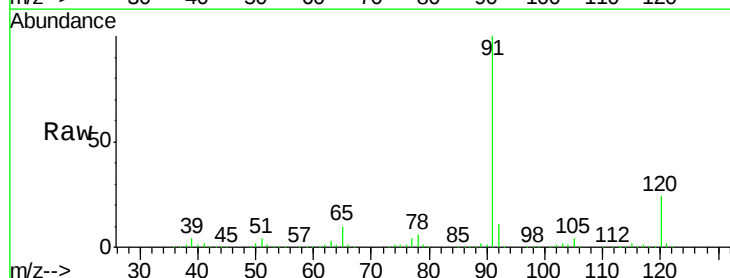
RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN056273.D

Acq: 13 Jun 2019 11:27

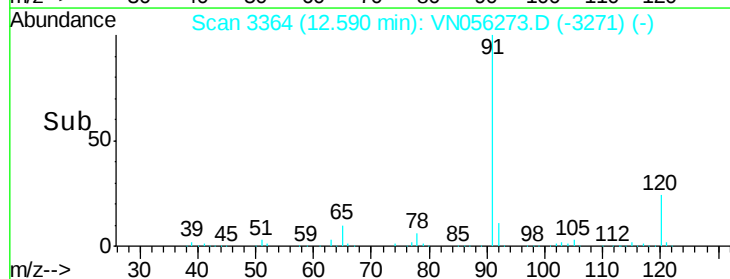
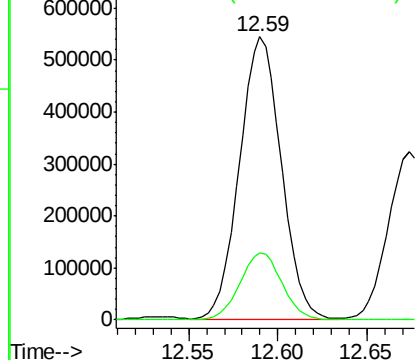
Tgt Ion	Ratio	Lower	Upper
91	100		
120	24.0	12.0	36.0

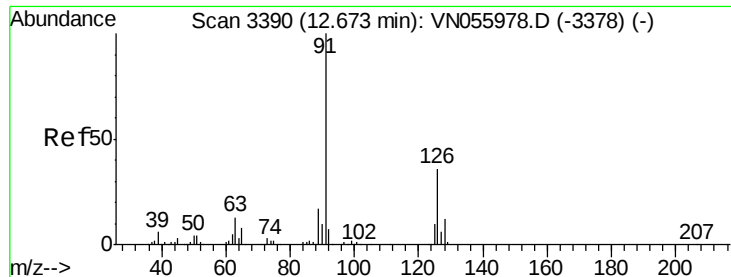


Abundance

Ion 91.00 (90.70 to 91.70): VN

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 57.395 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN056273.D

Acq: 13 Jun 2019 11:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 536919

Ion Ratio Lower Upper

91 100

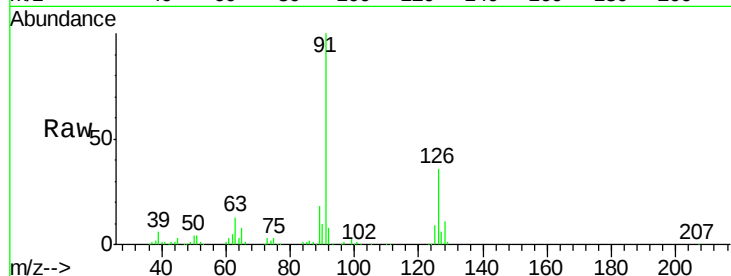
126 36.3 18.1 54.4

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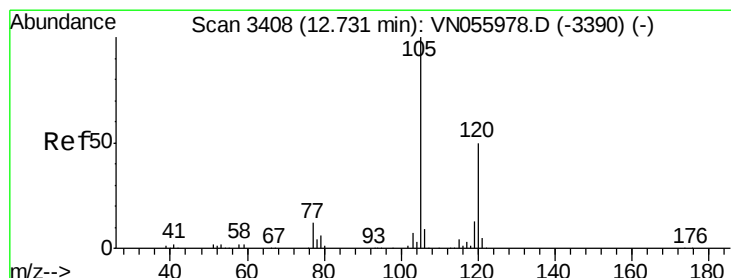
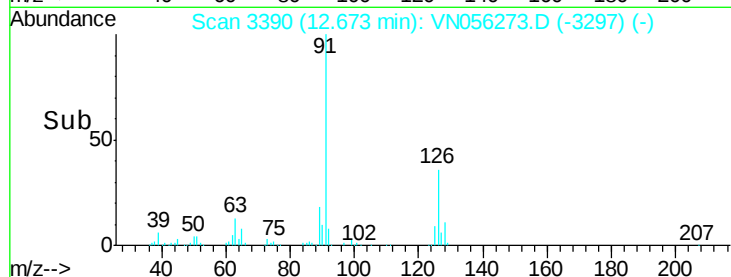
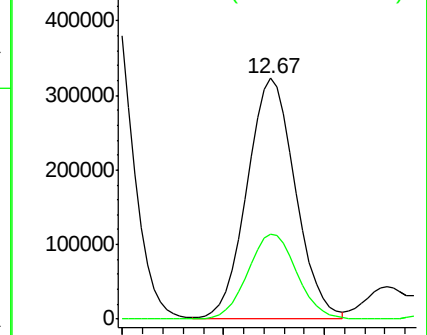
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Abundance Ion 91.00 (90.70 to 91.70): VN055978.D (-3378) (-)

Ion 125.90 (125.60 to 126.60): VN055978.D (-3378) (-)



#80

1,3,5-Trimethylbenzene

Concen: 50.032 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN056273.D

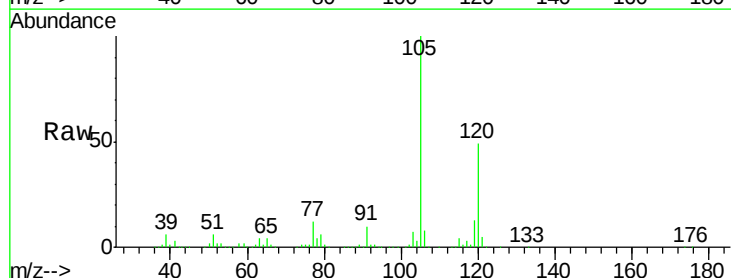
Acq: 13 Jun 2019 11:27

Tgt Ion: 105 Resp: 674672

Ion Ratio Lower Upper

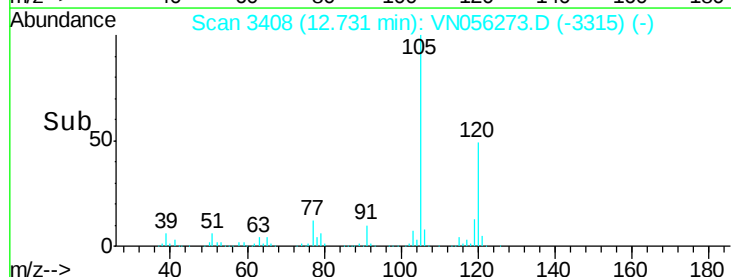
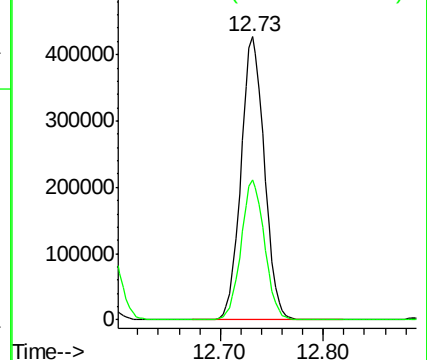
105 100

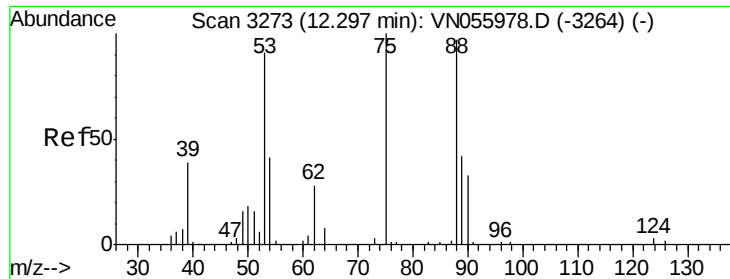
120 49.5 24.7 74.1



Abundance Ion 105.00 (104.70 to 105.70): VN055978.D (-3390) (-)

Ion 120.00 (119.70 to 120.70): VN055978.D (-3390) (-)





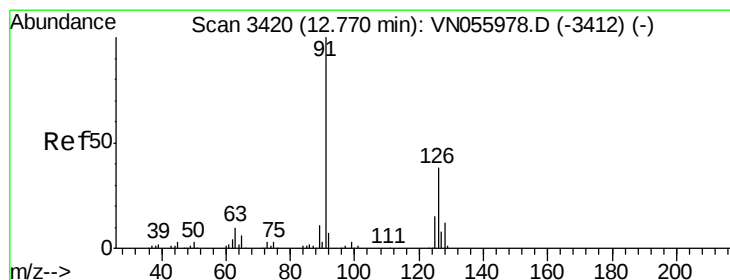
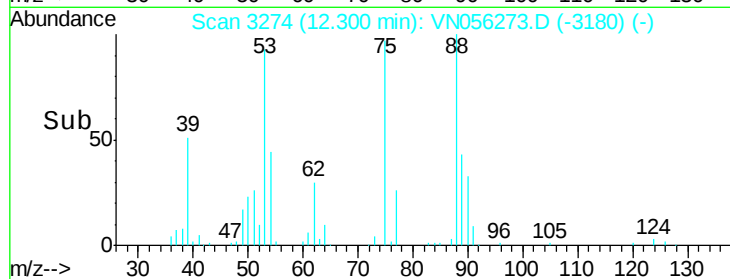
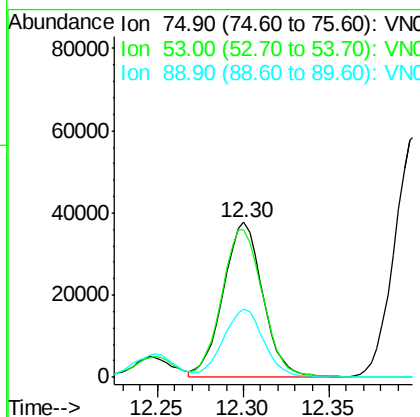
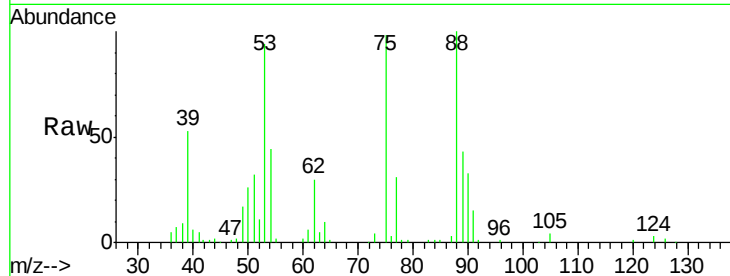
#81
trans-1,4-Dichloro-2-butene
Concen: 54.965 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN056273.D
Acq: 13 Jun 2019 11:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
53	99.1	68.1	102.1
89	44.7	36.9	55.3

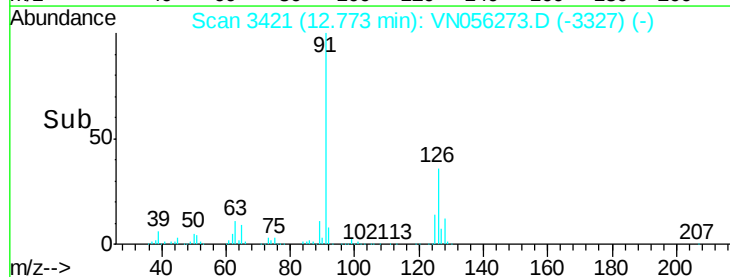
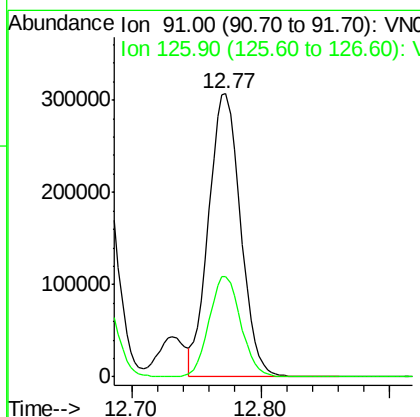
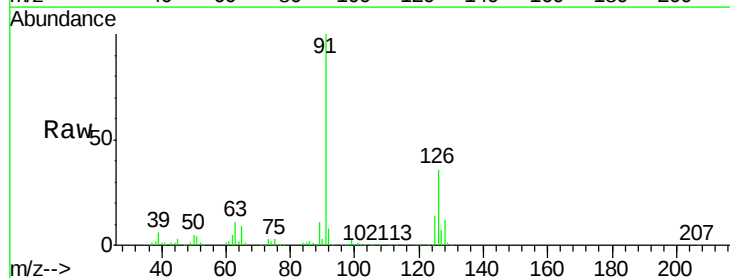
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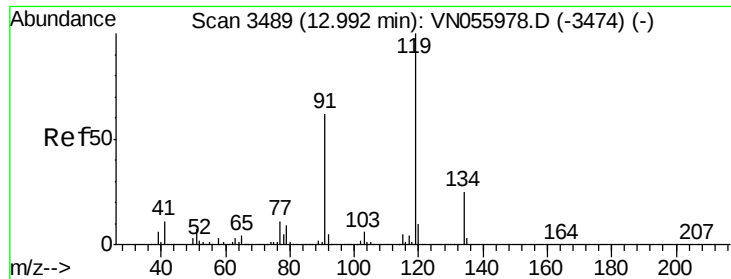
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#82
4-Chlorotoluene
Concen: 53.075 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN056273.D
Acq: 13 Jun 2019 11:27

Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.3	17.8	53.3





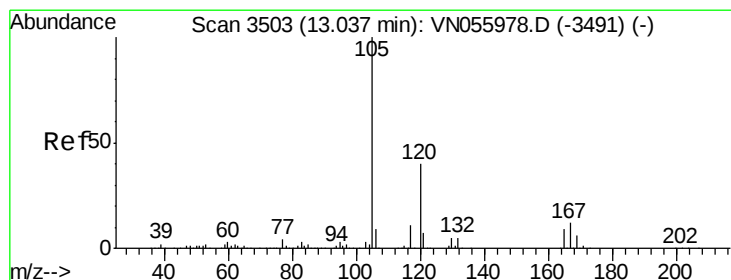
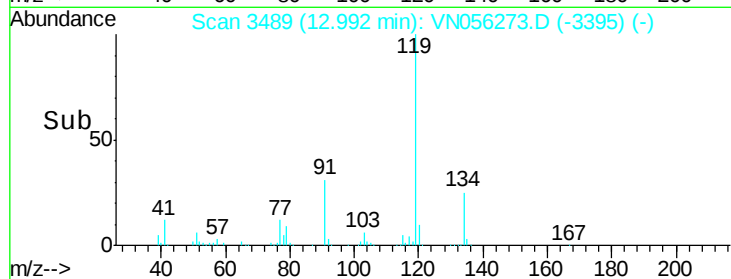
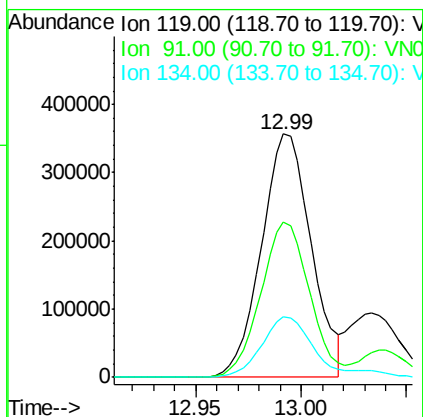
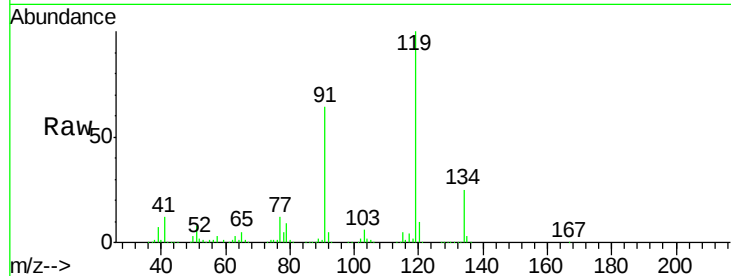
#83
tert-Butylbenzene
Concen: 56.403 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. 0.00 min
Lab File: VN056273.D
Acq: 13 Jun 2019 11:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
119	100		
91	62.7	30.9	92.8
134	27.0	13.3	39.8

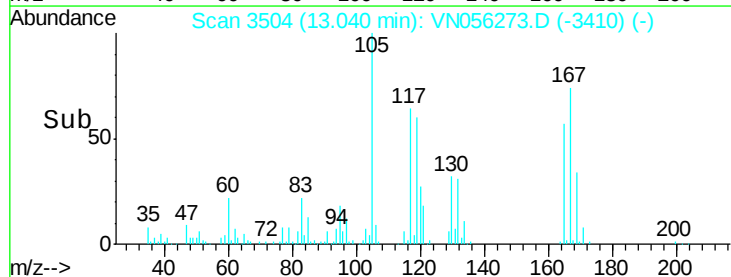
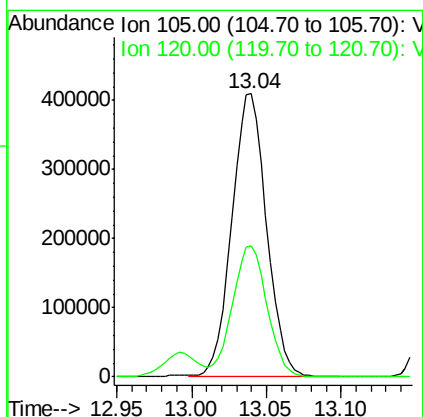
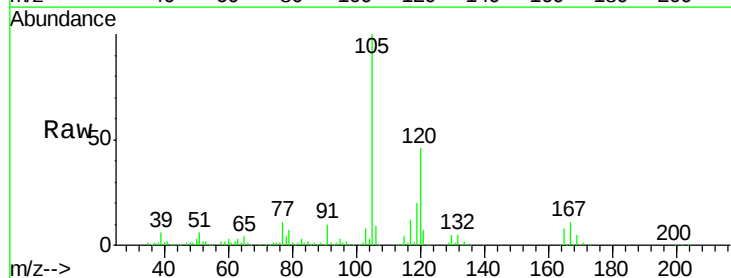
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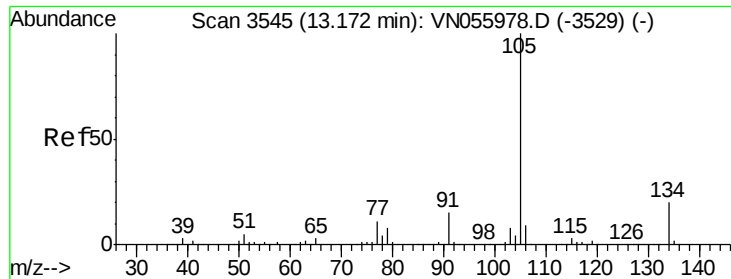
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#84
1,2,4-Trimethylbenzene
Concen: 51.511 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN056273.D
Acq: 13 Jun 2019 11:27

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.4	23.0	69.0





#85

sec-Butylbenzene

Concen: 51.313 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN056273.D

Acq: 13 Jun 2019 11:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 771021

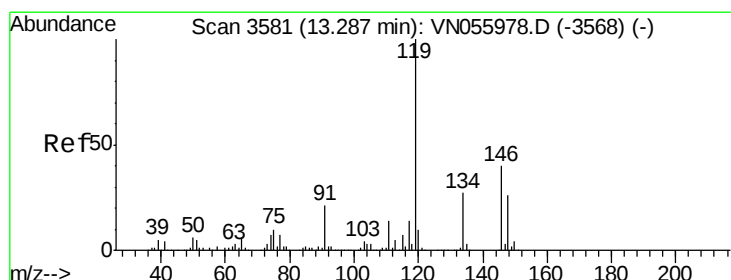
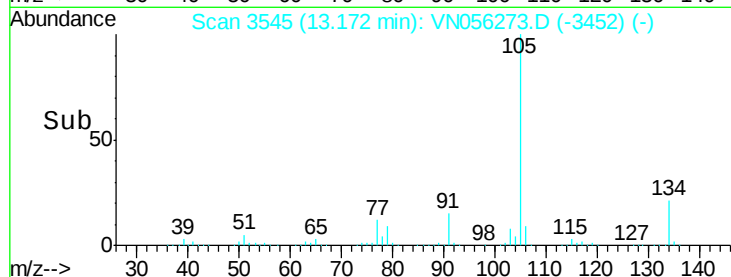
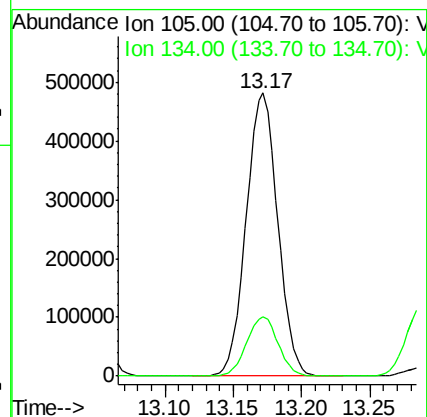
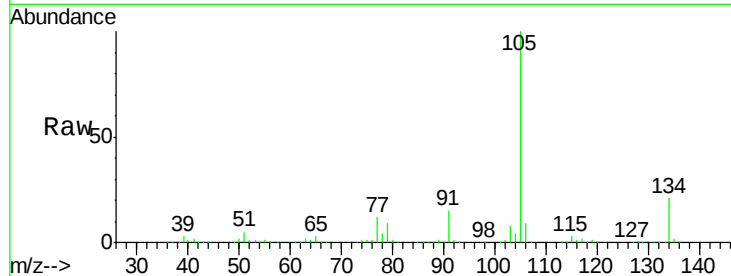
Ion Ratio Lower Upper

105 100

134 21.0 10.4 31.2

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#86

p-Isopropyltoluene

Concen: 51.729 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN056273.D

Acq: 13 Jun 2019 11:27

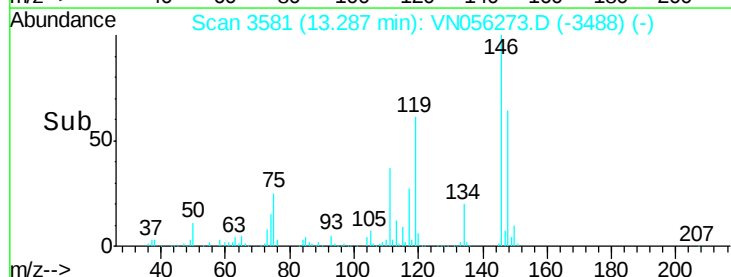
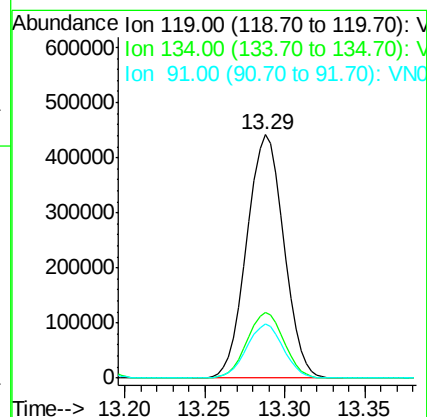
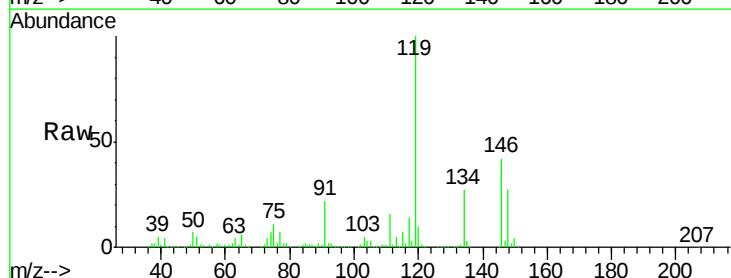
Tgt Ion:119 Resp: 695630

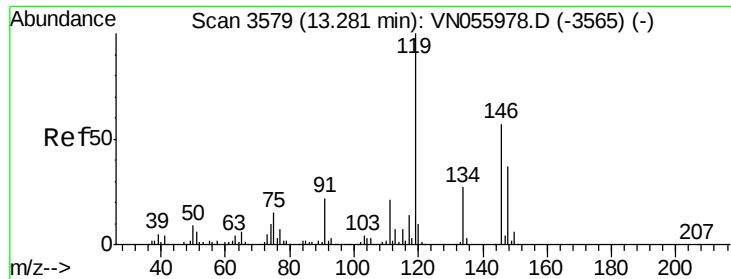
Ion Ratio Lower Upper

119 100

134 27.1 13.4 40.1

91 21.9 10.9 32.9





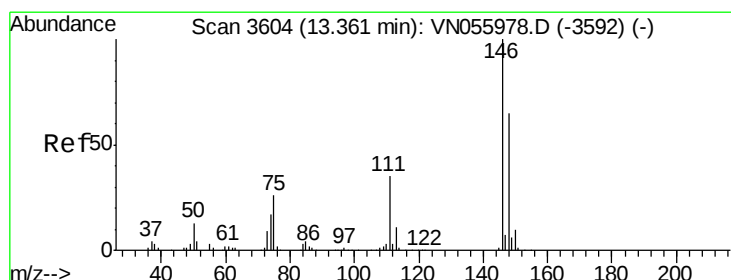
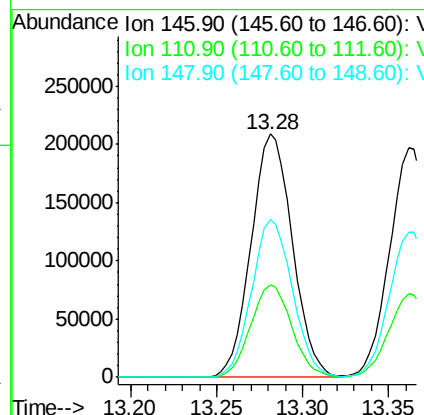
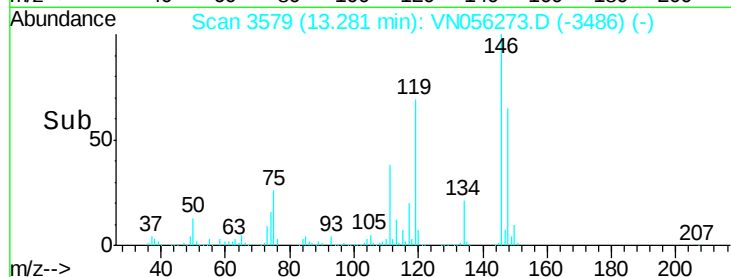
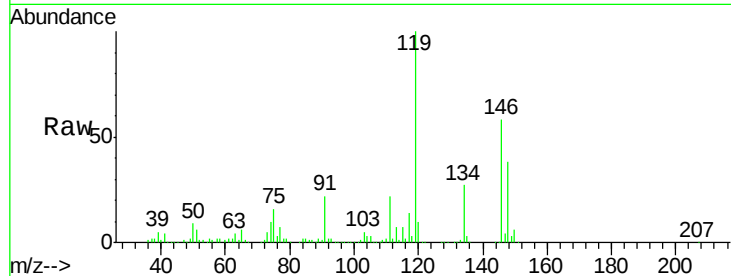
#87
 1,3-Dichlorobenzene
 Concen: 52.550 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. 0.00 min
 Lab File: VN056273.D
 Acq: 13 Jun 2019 11:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.7	18.5	55.5
148	63.9	32.0	96.2

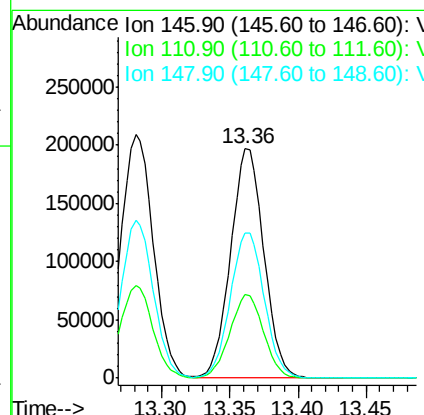
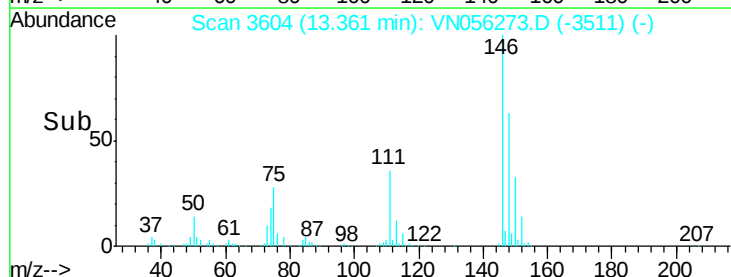
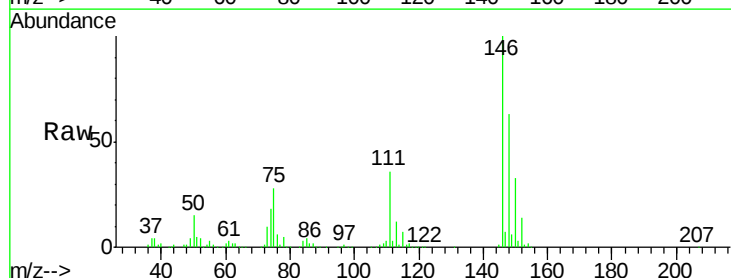
Manual Integrations
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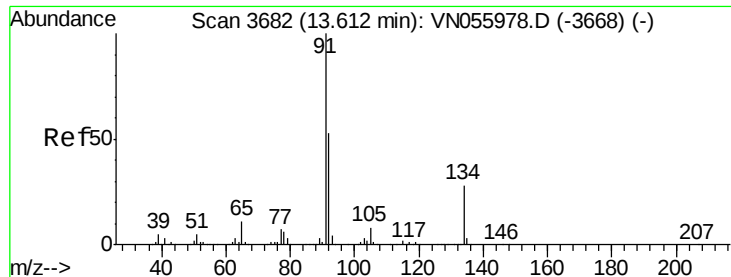
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#88
 1,4-Dichlorobenzene
 Concen: 52.266 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. 0.00 min
 Lab File: VN056273.D
 Acq: 13 Jun 2019 11:27

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.0	18.1	54.4
148	64.3	32.1	96.5





#89

n-Butylbenzene

Concen: 54.062 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. 0.00 min

Lab File: VN056273.D

Acq: 13 Jun 2019 11:27

Instrument :

MSVOA_N

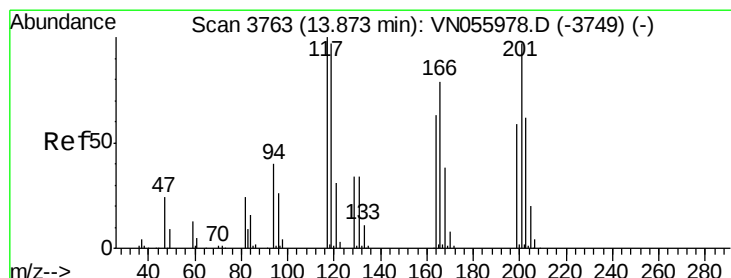
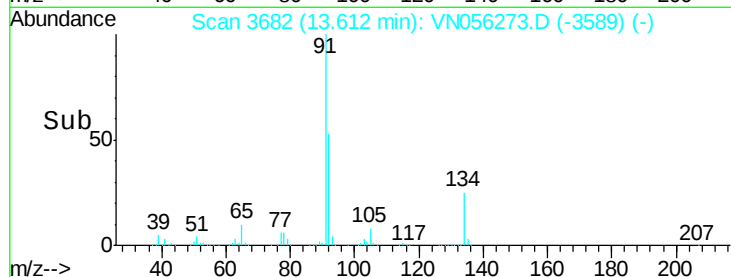
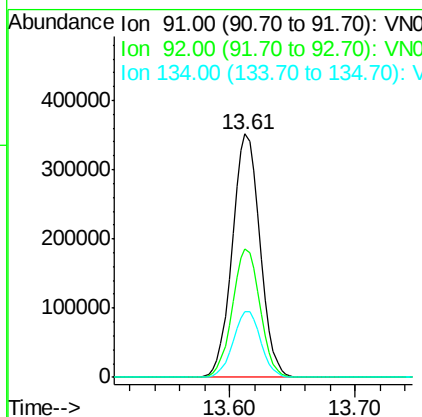
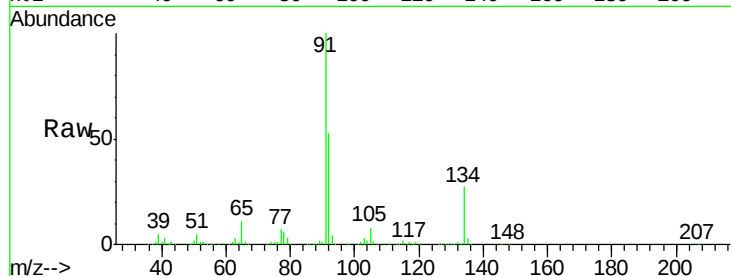
ClientSampleId :

VSTDCCC050

Tot Ion:	91	Resp:	538560
Ion	Ratio	Lower	Upper
91	100		
92	52.7	26.4	79.0
134	27.0	13.9	41.7

Manual Integrations
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#90

Hexachloroethane

Concen: 58.565 ug/l

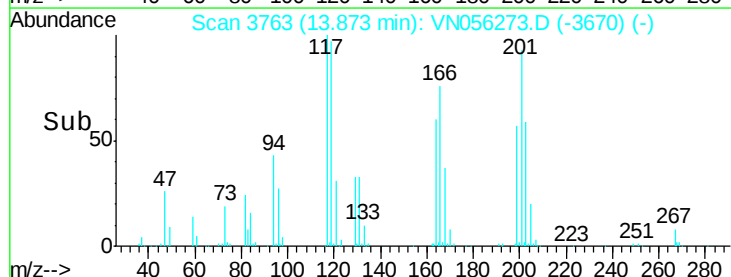
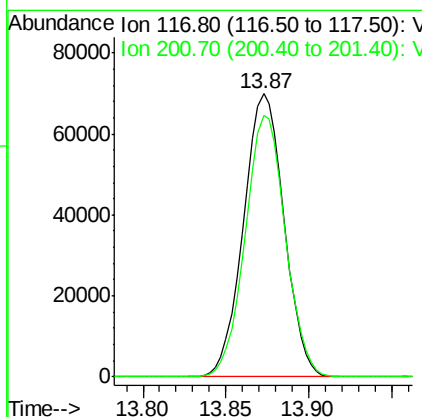
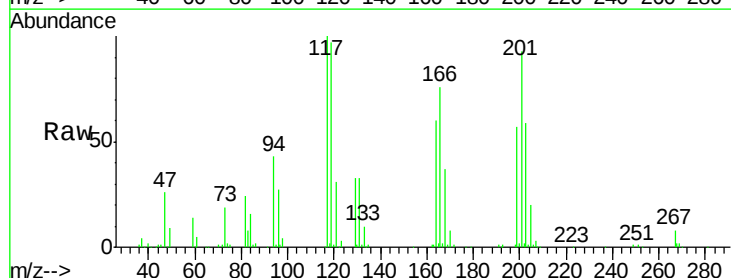
RT: 13.87 min Scan# 3763

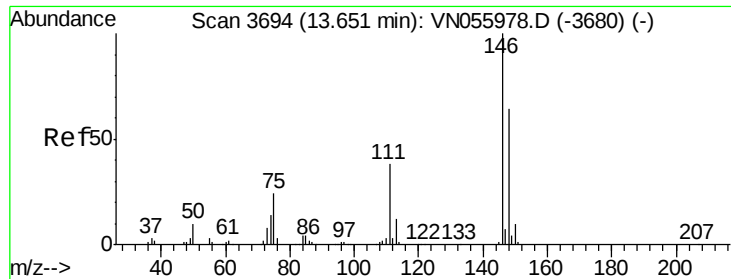
Delta R.T. 0.00 min

Lab File: VN056273.D

Acq: 13 Jun 2019 11:27

Tgt Ion:	117	Resp:	118772
Ion	Ratio	Lower	Upper
117	100		
201	91.6	50.0	150.0





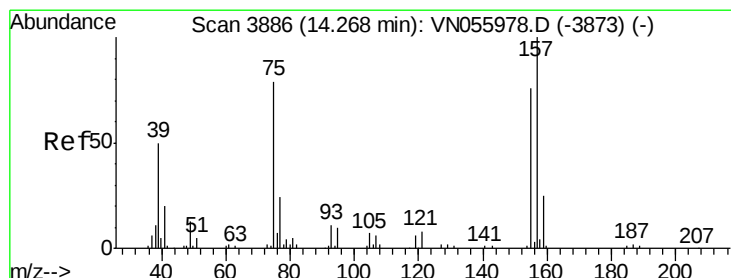
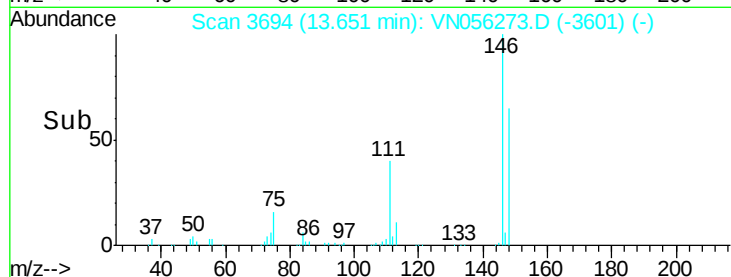
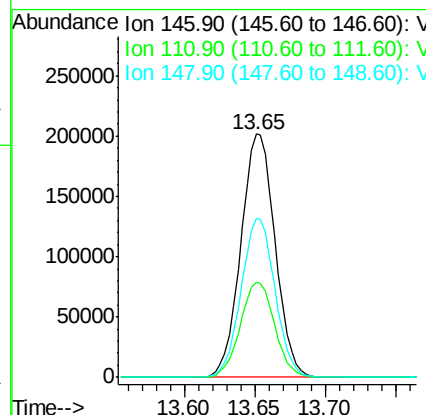
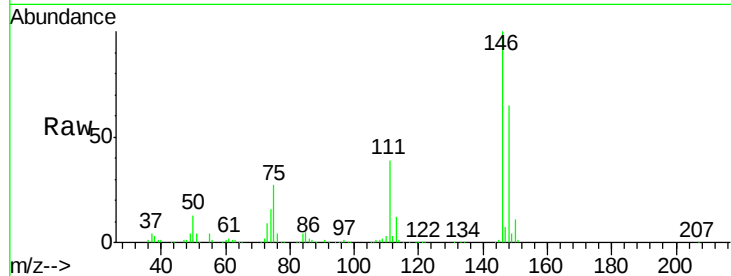
#91
 1,2-Dichlorobenzene
 Concen: 51.095 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. 0.00 min
 Lab File: VN056273.D
 Acq: 13 Jun 2019 11:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.0	19.1	57.5
148	64.5	31.9	95.9

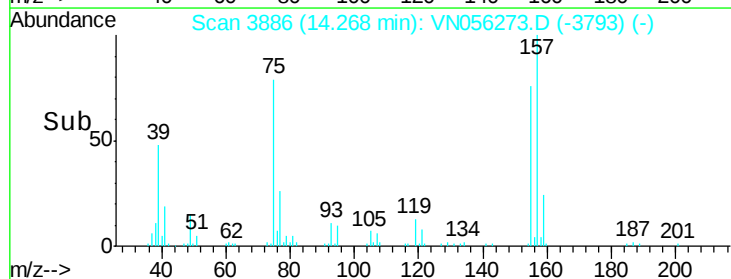
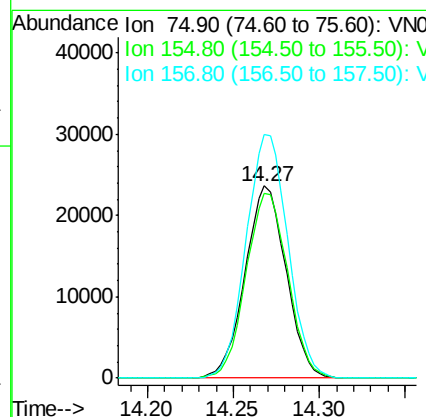
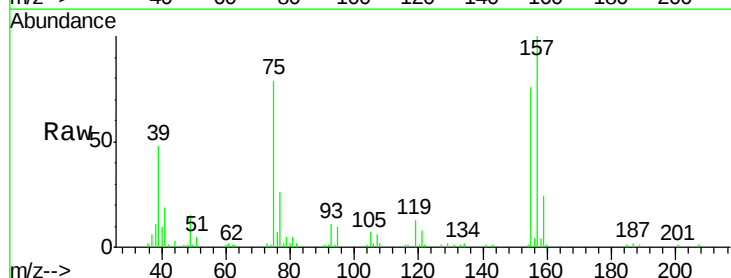
Manual Integrations
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 58.945 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN056273.D
 Acq: 13 Jun 2019 11:27

Tgt Ion	Ratio	Lower	Upper
75	100		
155	97.7	50.0	150.1
157	129.2	64.8	194.3





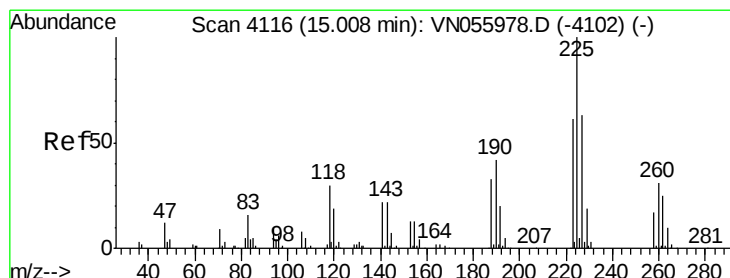
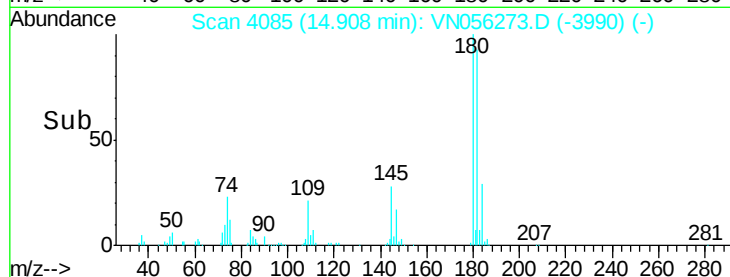
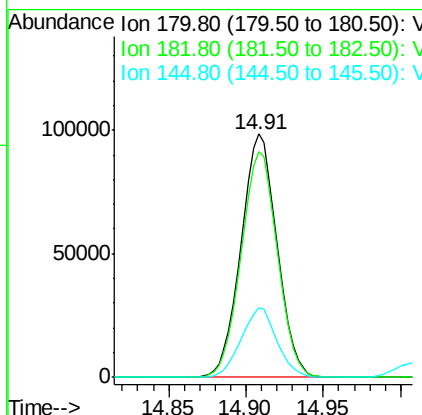
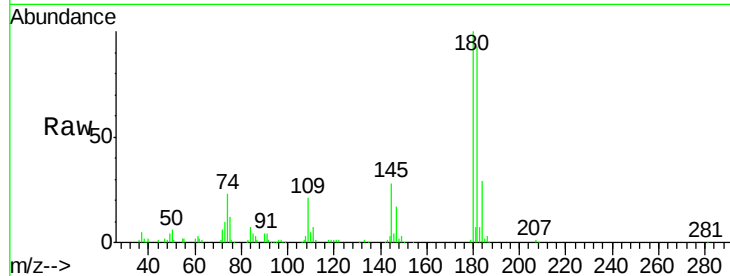
#93
 1,2,4-Trichlorobenzene
 Concen: 43.647 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN056273.D
 Acq: 13 Jun 2019 11:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion:180	Resp:	159186
Ion Ratio	Lower	Upper
180 100		
182 93.6	48.3	144.9
145 28.3	14.0	41.9

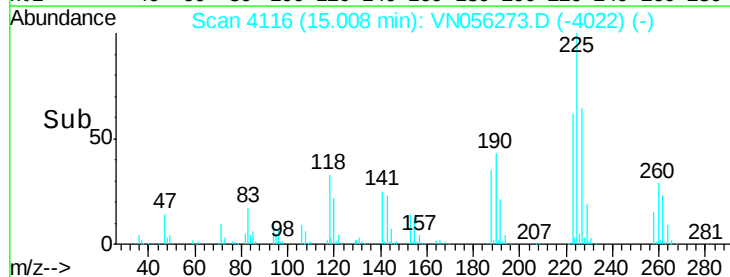
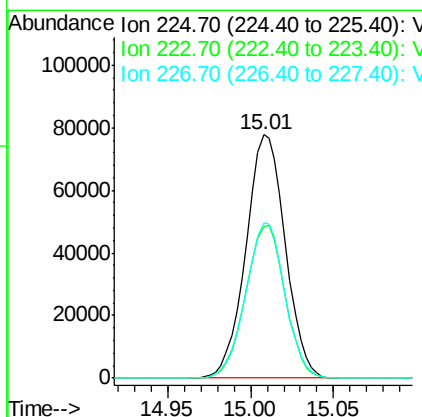
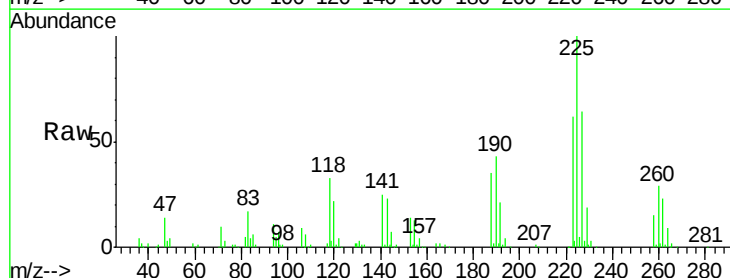
Manual Integrations
 APPROVED

MMDadoda
 6/14/2019 9:37:04 AM



#94
 Hexachlorobutadiene
 Concen: 55.863 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN056273.D
 Acq: 13 Jun 2019 11:27

Tgt Ion:225	Resp:	127991
Ion Ratio	Lower	Upper
225 100		
223 62.8	30.9	92.7
227 63.6	31.6	94.7





#95

Naphthalene

Concen: 43.364 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN056273.D

Acq: 13 Jun 2019 11:27

Instrument :

MSVOA_N

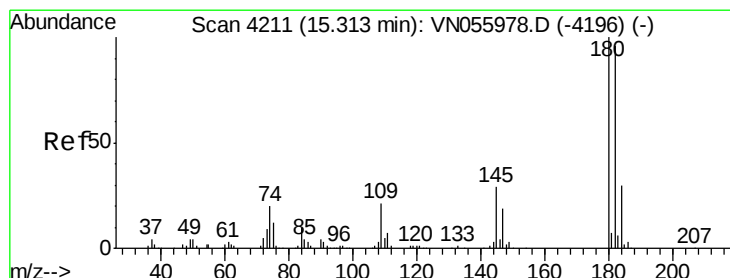
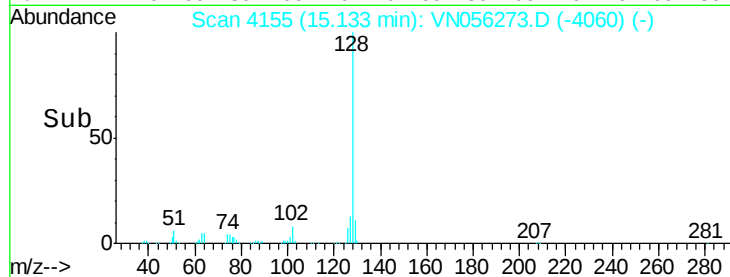
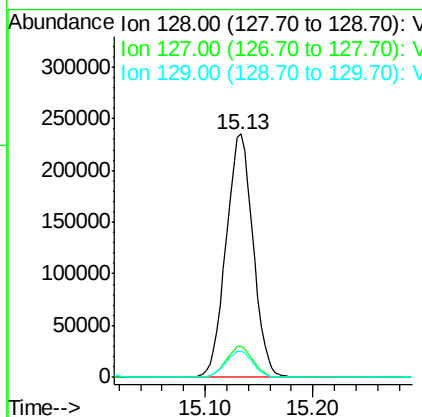
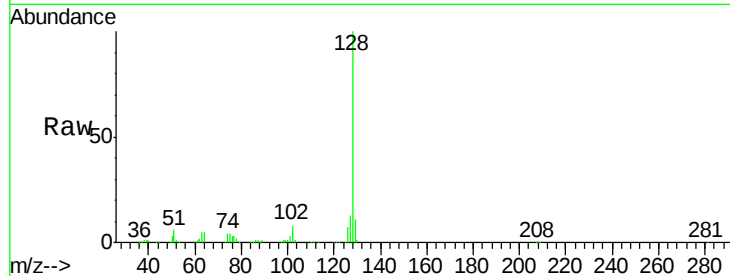
ClientSampleId :

VSTDCCC050

Tot Ion:	128	Resp:	410666
Ion Ratio	Lower	Upper	
128	100		
127	12.7	10.3	15.5
129	10.9	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
6/14/2019 9:37:04 AM



#96

1,2,3-Trichlorobenzene

Concen: 45.930 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN056273.D

Acq: 13 Jun 2019 11:27

Tgt Ion:	180	Resp:	172080
Ion Ratio	Lower	Upper	
180	100		
182	96.8	47.9	143.7
145	30.1	14.9	44.7

