

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121818\
 Data File : VN052956.D
 Acq On : 18 Dec 2018 12:42
 Operator : MD\SY
 Sample : VSTDICC150
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

MMDadoda
 12/19/2018 12:06:32 PM

Quant Time: Dec 18 13:03:43 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 12:41:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1087149	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1670155	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1499537	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	741124	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	1688038	153.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	307.56%	
35) Dibromofluoromethane	7.59	113	1288841	174.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	348.88%	
50) Toluene-d8	10.09	98	6266117	153.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	307.52%	
62) 4-Bromofluorobenzene	12.40	95	2207280	154.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	308.84%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	1576178	141.975	ug/l	100
3) Chloromethane	2.06	50	1913893	142.320	ug/l	99
4) Vinyl Chloride	2.19	62	1966880	144.821	ug/l	100
5) Bromomethane	2.56	94	1278537	134.273	ug/l	100
6) Chloroethane	2.70	64	1147262	142.214	ug/l	99
7) Trichlorofluoromethane	3.02	101	2451725	144.926	ug/l	99
8) Diethyl Ether	3.41	74	936374	147.072	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.76	101	1540996	142.477	ug/l	98
10) Methyl Iodide	3.96	142	2396005	161.520	ug/l	99
11) Tert butyl alcohol	4.77	59	517833	774.226	ug/l	99
12) 1,1-Dichloroethene	3.74	96	1513615	145.313	ug/l	99
13) Acrolein	3.60	56	493705	825.030	ug/l	99
14) Allyl chloride	4.32	41	2534153	159.565	ug/l	95
15) Acrylonitrile	4.98	53	2735083	727.739	ug/l	99
16) Acetone	3.81	43	1609713	743.003	ug/l	97
17) Carbon Disulfide	4.06	76	4750119	138.820	ug/l	99
18) Methyl Acetate	4.32	43	1506663	148.274	ug/l	99
19) Methyl tert-butyl Ether	5.04	73	4137887	149.070	ug/l	98
20) Methylene Chloride	4.55	84	1684226	141.367	ug/l	98
21) trans-1,2-Dichloroethene	5.04	96	1604932	143.046	ug/l	99
22) Diisopropyl ether	5.95	45	5065156	147.422	ug/l	97
23) Vinyl Acetate	5.89	43	14459091	730.824	ug/l	98
24) 1,1-Dichloroethane	5.85	63	2963897	144.737	ug/l	99
25) 2-Butanone	6.83	43	2807946	778.358	ug/l	97
26) 2,2-Dichloropropane	6.82	77	2271409	145.415	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	1852160	146.358	ug/l	99
28) Bromochloromethane	7.19	49	1320387	149.613	ug/l	95
29) Tetrahydrofuran	7.21	42	2019582	743.851	ug/l	98
30) Chloroform	7.37	83	2895964	143.812	ug/l	99
31) Cyclohexane	7.65	56	2816749	120.987	ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	2512463	146.981	ug/l	99
36) 1,1-Dichloropropene	7.79	75	2329721	144.430	ug/l	100
37) Ethyl Acetate	6.93	43	1354584	151.642	ug/l	98
38) Carbon Tetrachloride	7.78	117	2217378	151.092	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121818\
 Data File : VN052956.D
 Acq On : 18 Dec 2018 12:42
 Operator : MD\SY
 Sample : VSTDICC150
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

MMDadoda
 12/19/2018 12:06:32 PM

Quant Time: Dec 18 13:03:43 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 12:41:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	2857661	146.108	ug/l	98
40) Benzene	8.04	78	6917008	144.114	ug/l	99
41) Methacrylonitrile	7.17	41	783519	151.841	ug/l	95
42) 1,2-Dichloroethane	8.12	62	2011757	141.462	ug/l	99
43) Isopropyl Acetate	8.16	43	2559721	125.164	ug/l	98
44) Trichloroethene	8.83	130	2009043	144.834	ug/l	97
45) 1,2-Dichloropropane	9.12	63	1819065	145.776	ug/l	98
46) Dibromomethane	9.21	93	1053532	144.766	ug/l	99
47) Bromodichloromethane	9.40	83	2279016	147.827	ug/l	99
48) Methyl methacrylate	9.20	41	1308139	150.768	ug/l	99
49) 1,4-Dioxane	9.20	88	322603	2924.505	ug/l	95
51) 4-Methyl-2-Pentanone	9.99	43	6456526	744.009	ug/l	99
52) Toluene	10.16	92	4325794	145.658	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	2475565	153.705	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	2809889	151.647	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	1503745	145.037	ug/l	99
56) Ethyl methacrylate	10.43	69	2100762	154.743	ug/l	97
57) 1,3-Dichloropropane	10.71	76	2594629	146.111	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	5815085	781.583	ug/l	99
59) 2-Hexanone	10.75	43	4367936	743.921	ug/l	99
60) Dibromochloromethane	10.90	129	1761991	149.148	ug/l	100
61) 1,2-Dibromoethane	11.01	107	1567099	149.580	ug/l	100
64) Tetrachloroethene	10.63	164	2304754	140.371	ug/l	99
65) Chlorobenzene	11.43	112	4800142	143.337	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	1716737	148.223	ug/l	100
67) Ethyl Benzene	11.51	91	8337345	145.044	ug/l	100
68) m/p-Xylenes	11.62	106	6318955	288.994	ug/l	98
69) o-Xylene	11.95	106	3049579	145.510	ug/l	100
70) Styrene	11.96	104	5086867	149.518	ug/l	99
71) Bromoform	12.13	173	1256875	150.616	ug/l #	100
73) Isopropylbenzene	12.25	105	8073573	137.261	ug/l	99
74) N-amyl acetate	12.07	43	2366109	146.380	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.51	83	1563502	135.174	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	1853300m	148.262	ug/l	
77) Bromobenzene	12.53	156	2098321	137.235	ug/l	99
78) n-propylbenzene	12.59	91	9335966	139.756	ug/l	99
79) 2-Chlorotoluene	12.68	91	5419325	129.349	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	6632760	138.549	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	613169	160.205	ug/l	92
82) 4-Chlorotoluene	12.77	91	5699823	140.782	ug/l	100
83) tert-Butylbenzene	12.99	119	5749803	135.307	ug/l	100
84) 1,2,4-Trimethylbenzene	13.04	105	6817868	142.259	ug/l	100
85) sec-Butylbenzene	13.17	105	7870762	137.234	ug/l	99
86) p-Isopropyltoluene	13.29	119	7063041	143.533	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	3810223	141.470	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	3778724	138.004	ug/l	99
89) n-Butylbenzene	13.62	91	6098913	144.166	ug/l	99
90) Hexachloroethane	13.88	117	1163814	156.324	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	3463548	135.766	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	277623	139.493	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121818\
Data File : VN052956.D
Acq On : 18 Dec 2018 12:42
Operator : MD\SY
Sample : VSTDICC150
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 28

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

MMDadoda
12/19/2018 12:06:32 PM

Quant Time: Dec 18 13:03:43 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
Quant Title : SW846 8260
QLast Update : Tue Dec 18 12:41:03 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	2032550	133.906	ug/l	100
94) Hexachlorobutadiene	15.01	225	981492	108.095	ug/l	99
95) Naphthalene	15.13	128	4489891	133.825	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	1830324	128.702	ug/l	99

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

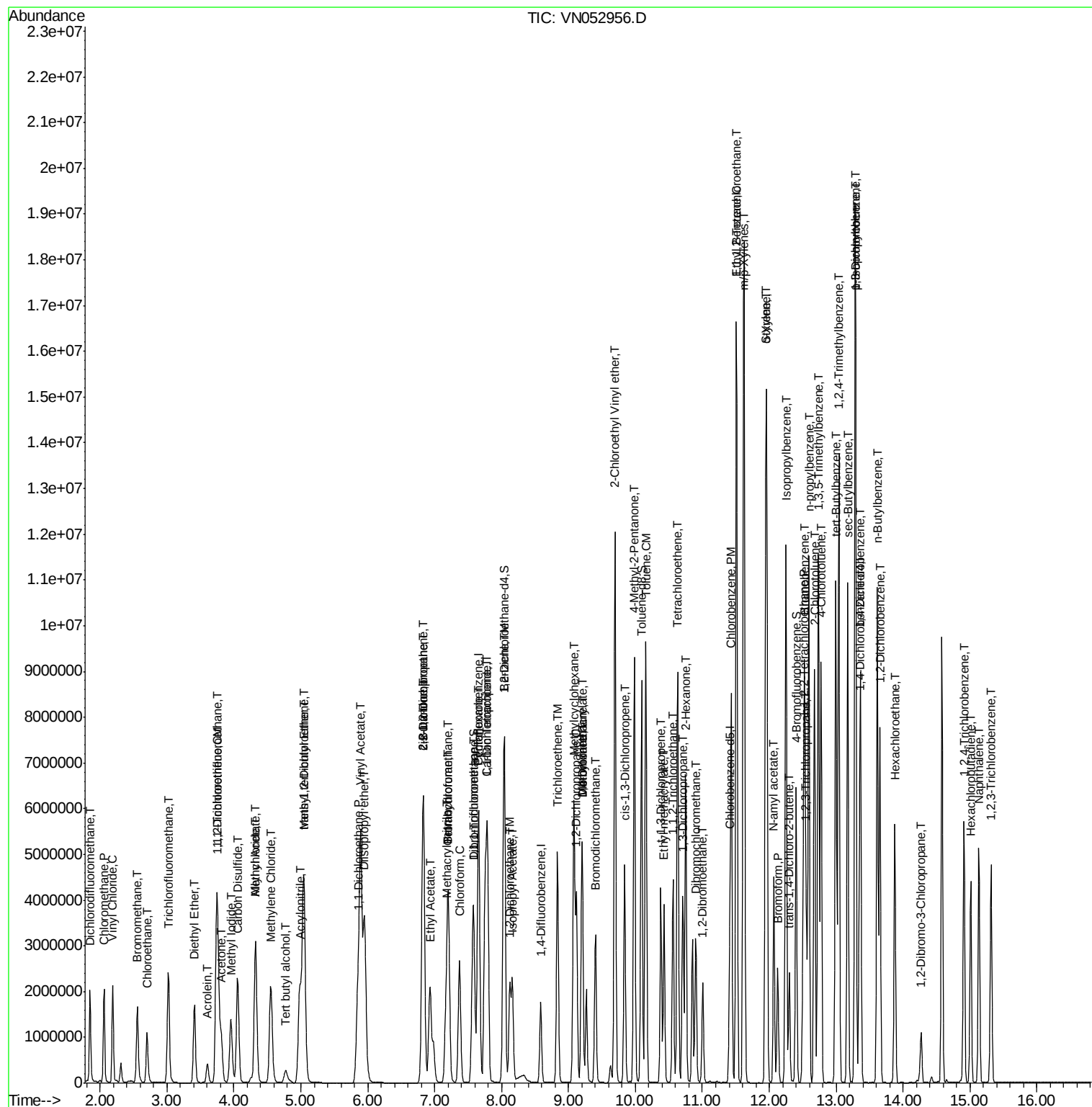
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121818\
Data File : VN052956.D
Acq On : 18 Dec 2018 12:42
Operator : MD\SY
Sample : VSTDIC150
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 28

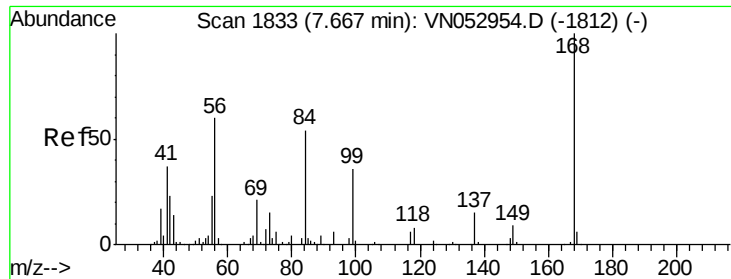
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Manual Integrations
APPROVED

MMDadoda
12/19/2018 12:06:32 PM

Quant Time: Dec 18 13:03:43 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
Quant Title : SW846 8260
QLast Update : Tue Dec 18 12:41:03 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN052956.D

Acq: 18 Dec 2018 12:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion:168 Resp: 1087149

Ion Ratio Lower Upper

168 100

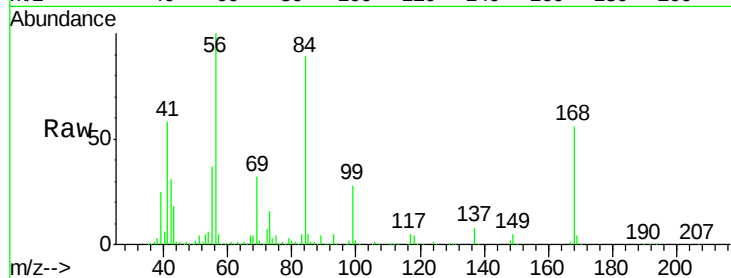
99 49.8 40.2 60.2

Manual Integrations

APPROVED

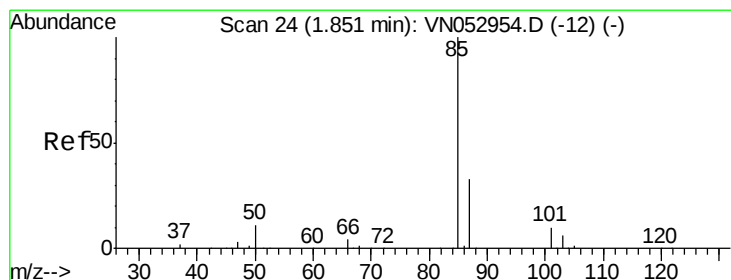
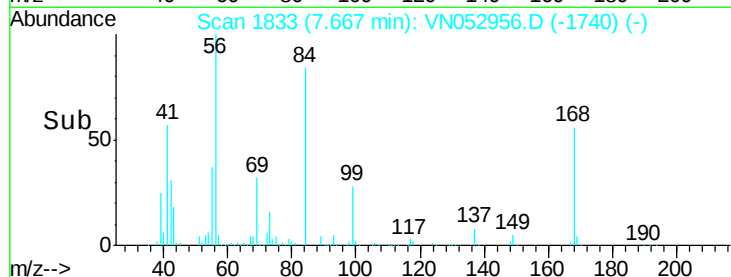
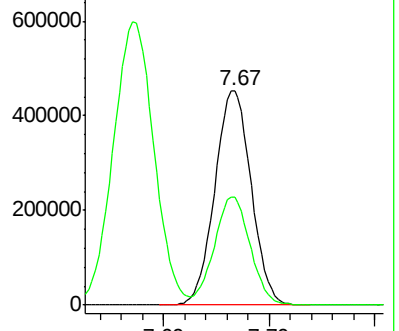
MMDadoda

12/19/2018 12:06:32 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 141.975 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN052956.D

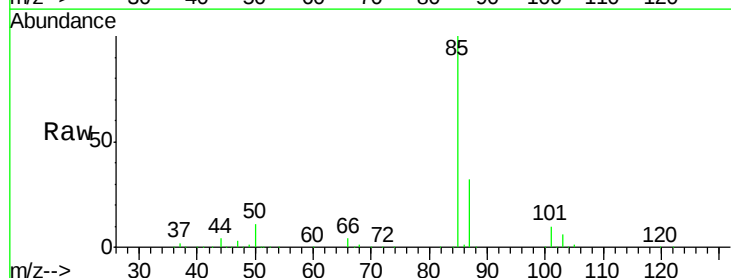
Acq: 18 Dec 2018 12:42

Tgt Ion: 85 Resp: 1576178

Ion Ratio Lower Upper

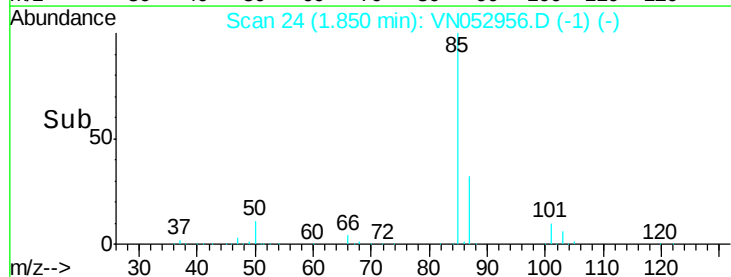
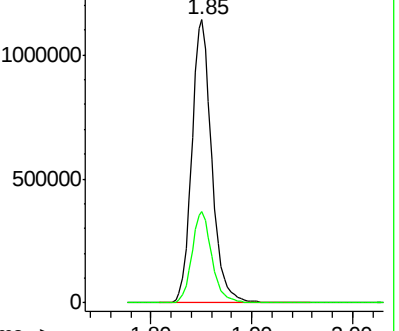
85 100

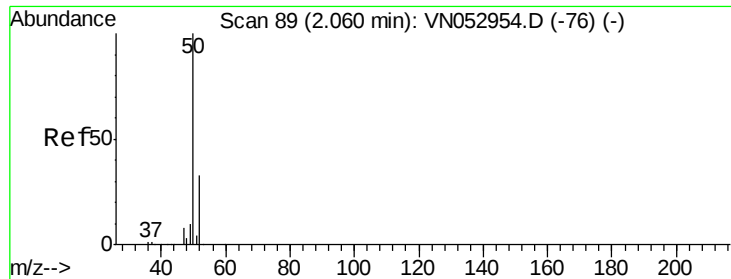
87 32.3 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: 142.320 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN052956.D

Acq: 18 Dec 2018 12:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 50 Resp: 1913893

Ion Ratio Lower Upper

50 100

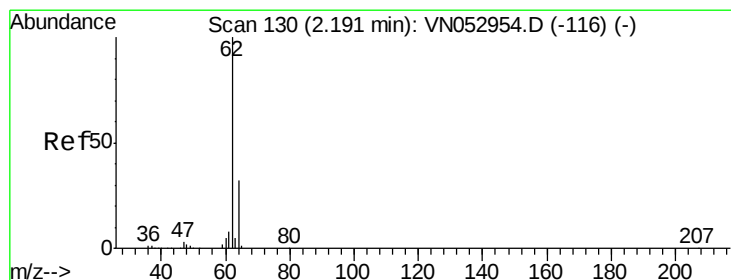
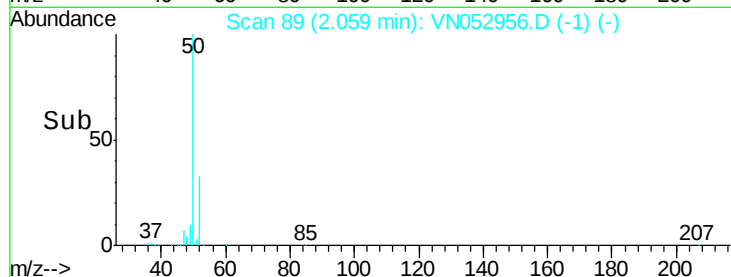
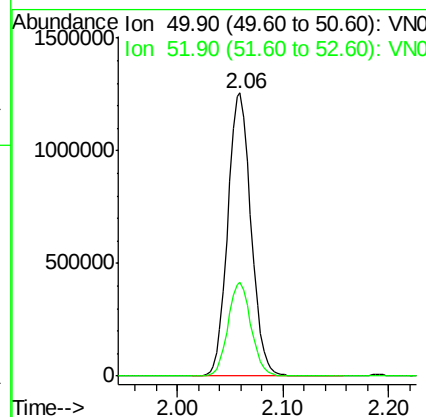
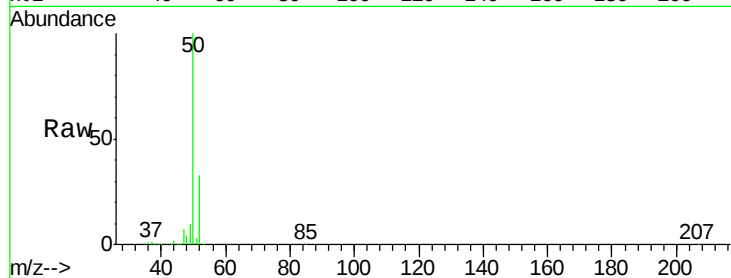
52 33.2 26.2 39.4

Manual Integrations

APPROVED

MMDadoda

12/19/2018 12:06:32 PM



#4

Vinyl Chloride

Concen: 144.821 ug/l

RT: 2.19 min Scan# 129

Delta R.T. -0.00 min

Lab File: VN052956.D

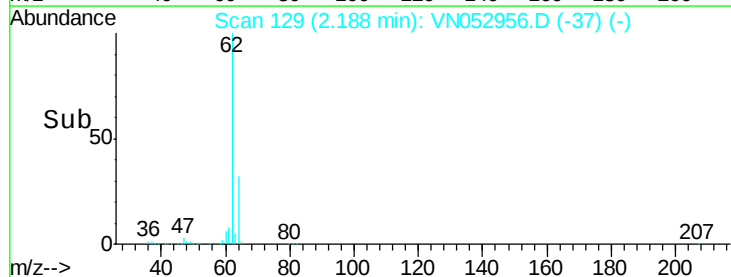
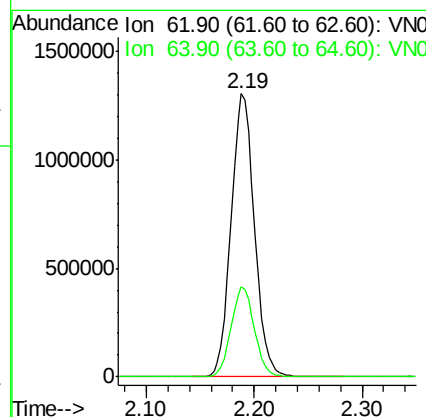
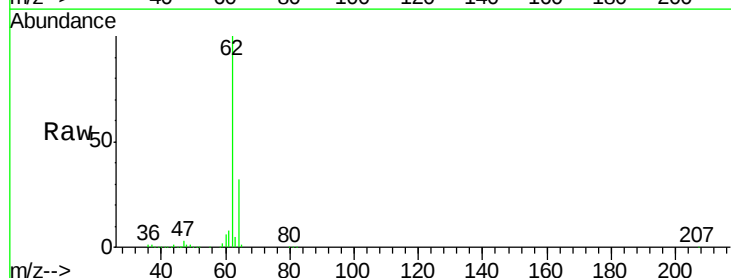
Acq: 18 Dec 2018 12:42

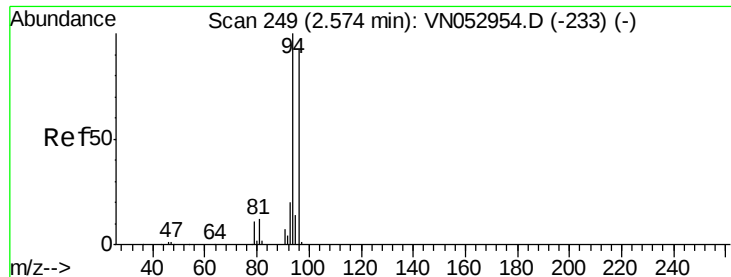
Tgt Ion: 62 Resp: 1966880

Ion Ratio Lower Upper

62 100

64 31.8 25.5 38.3





#5

Bromomethane

Concen: 134.273 ug/l

RT: 2.56 min Scan# 244

Delta R.T. -0.02 min

Lab File: VN052956.D

Acq: 18 Dec 2018 12:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 94 Resp: 1278537

Ion Ratio Lower Upper

94 100

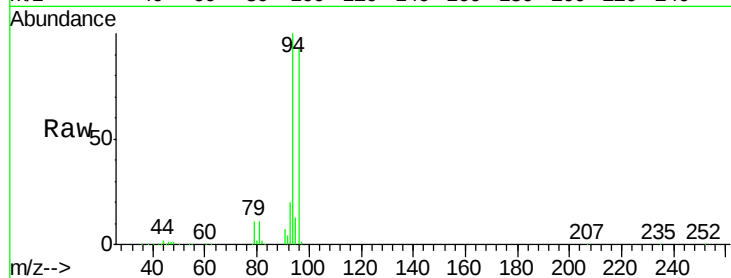
96 93.3 75.0 112.4

Manual Integrations

APPROVED

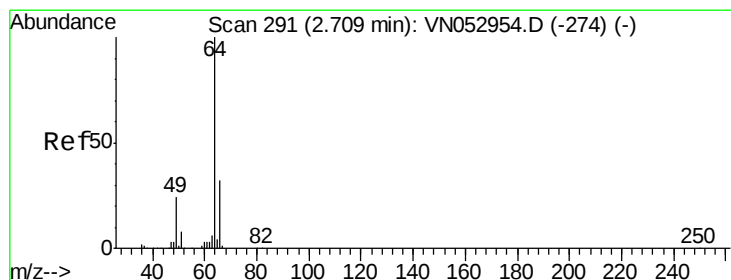
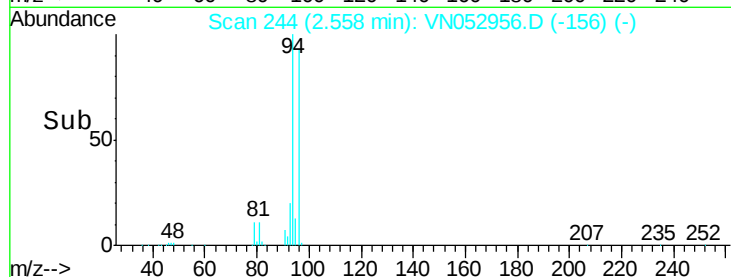
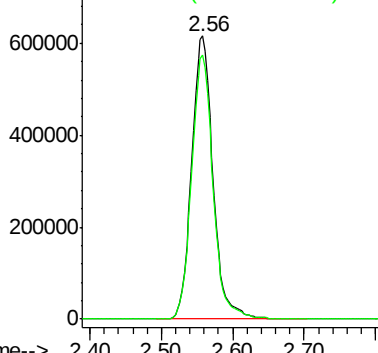
MMDadoda

12/19/2018 12:06:32 PM



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 142.214 ug/l

RT: 2.70 min Scan# 289

Delta R.T. -0.01 min

Lab File: VN052956.D

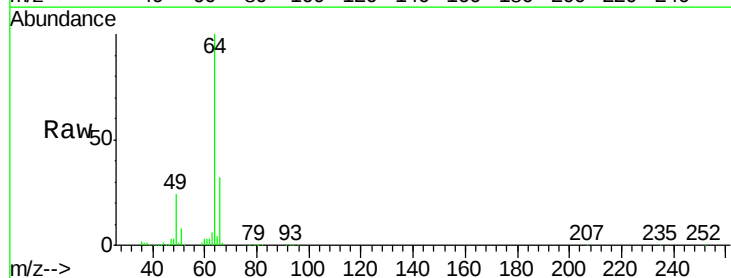
Acq: 18 Dec 2018 12:42

Tgt Ion: 64 Resp: 1147262

Ion Ratio Lower Upper

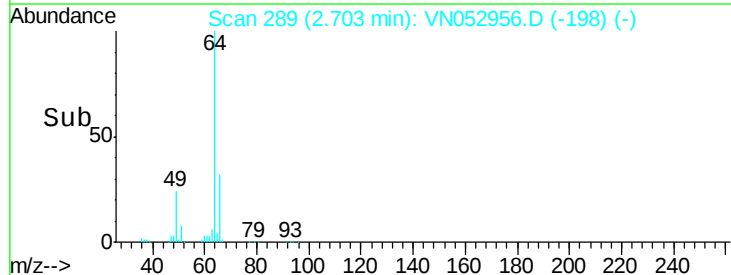
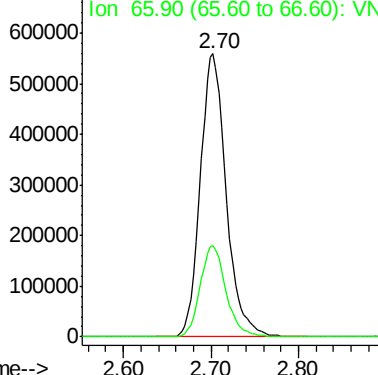
64 100

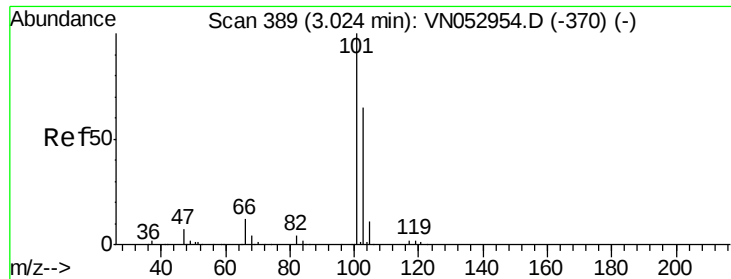
66 32.2 26.2 39.2



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO





#7

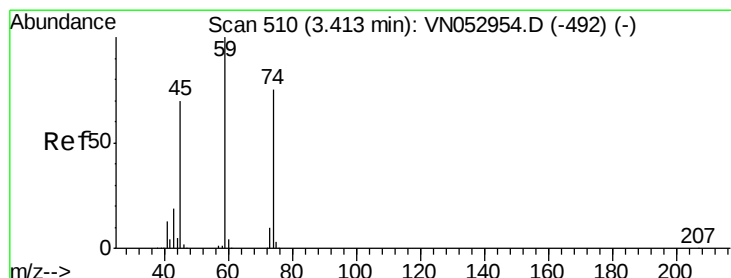
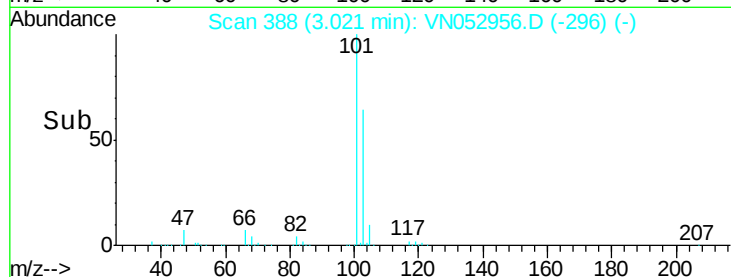
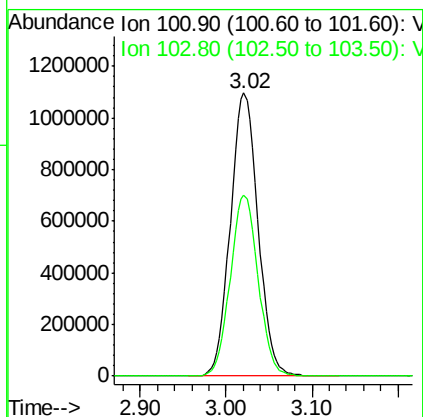
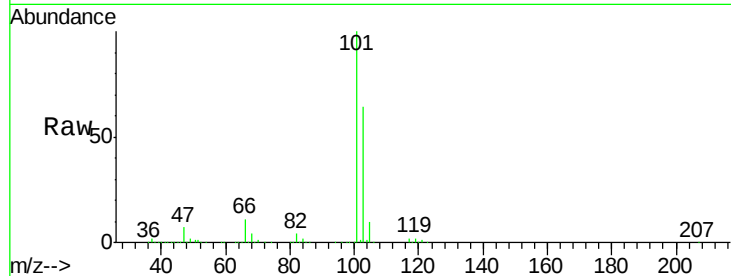
Trichlorofluoromethane
Concen: 144.926 ug/l
RT: 3.02 min Scan# 388
Delta R.T. -0.00 min
Lab File: VN052956.D
Acq: 18 Dec 2018 12:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion:101 Resp: 2451725
Ion Ratio Lower Upper
101 100
103 64.1 51.8 77.6

Manual Integrations
APPROVED

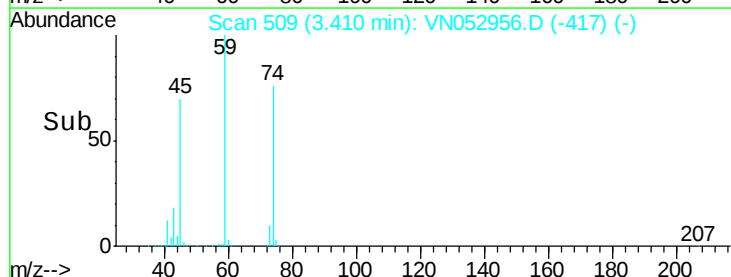
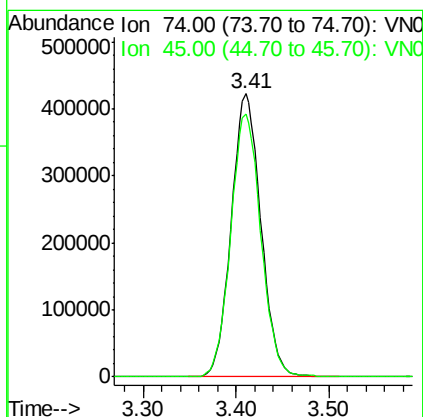
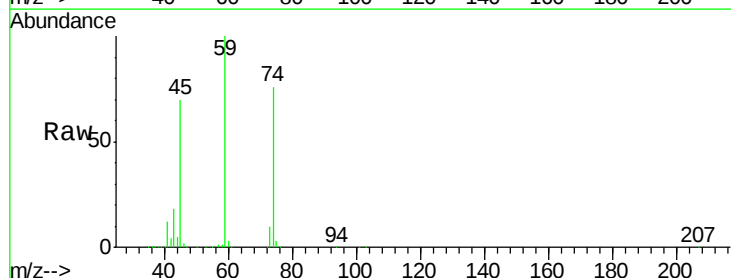
MMDadoda
12/19/2018 12:06:32 PM

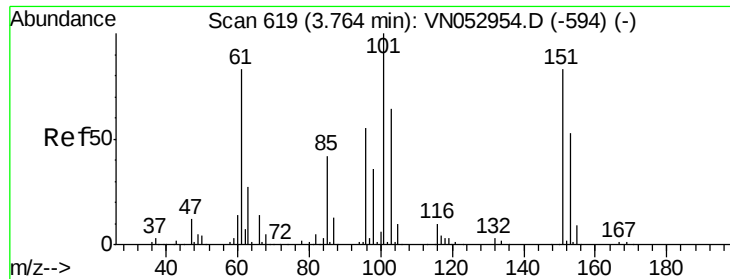


#8

Diethyl Ether
Concen: 147.072 ug/l
RT: 3.41 min Scan# 509
Delta R.T. -0.00 min
Lab File: VN052956.D
Acq: 18 Dec 2018 12:42

Tgt Ion: 74 Resp: 936374
Ion Ratio Lower Upper
74 100
45 94.6 49.4 148.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 142.477 ug/l

RT: 3.76 min Scan# 619

Delta R.T. -0.00 min

Lab File: VN052956.D

Acq: 18 Dec 2018 12:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion:101 Resp: 1540996

Ion Ratio Lower Upper

101 100

85 41.0 33.6 50.4

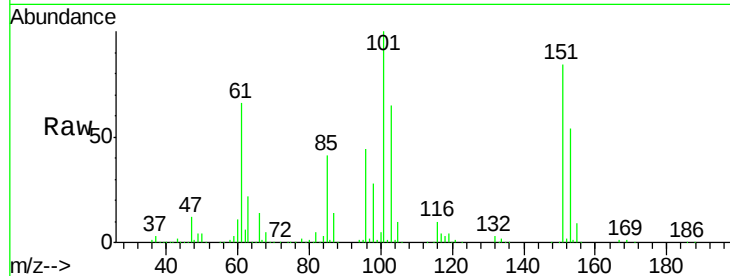
151 83.5 65.5 98.3

Manual Integrations

APPROVED

MMDadoda

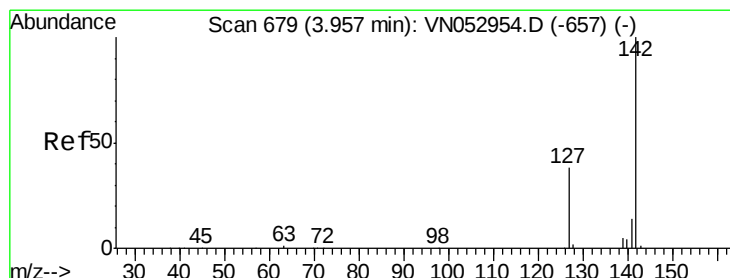
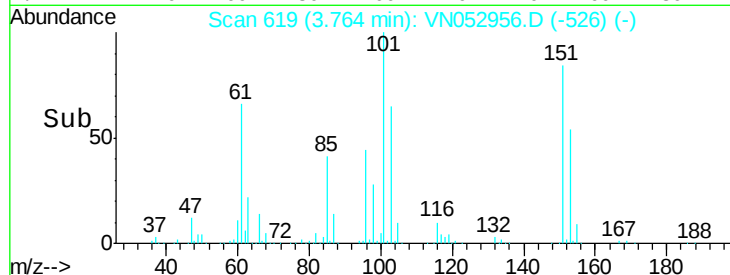
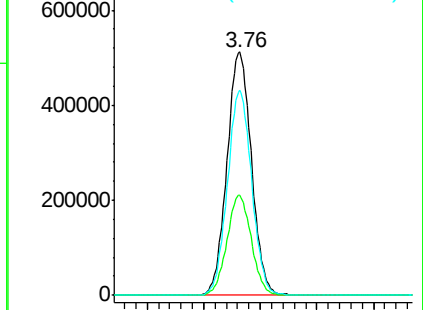
12/19/2018 12:06:32 PM



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 161.520 ug/l

RT: 3.96 min Scan# 679

Delta R.T. -0.00 min

Lab File: VN052956.D

Acq: 18 Dec 2018 12:42

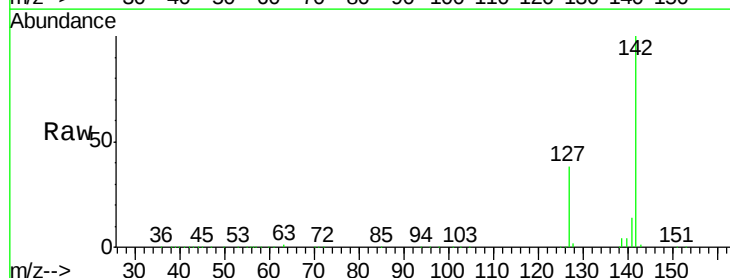
Tgt Ion:142 Resp: 2396005

Ion Ratio Lower Upper

142 100

127 38.2 31.0 46.6

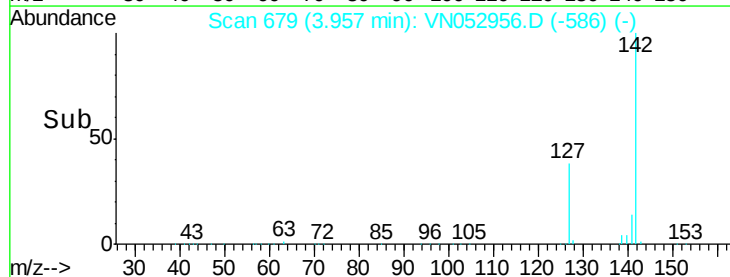
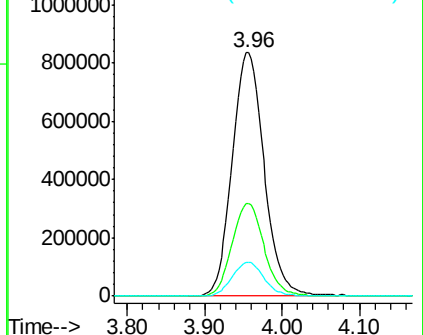
141 13.9 11.2 16.8

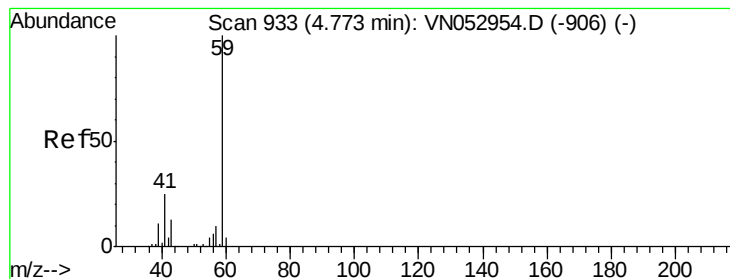


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#11

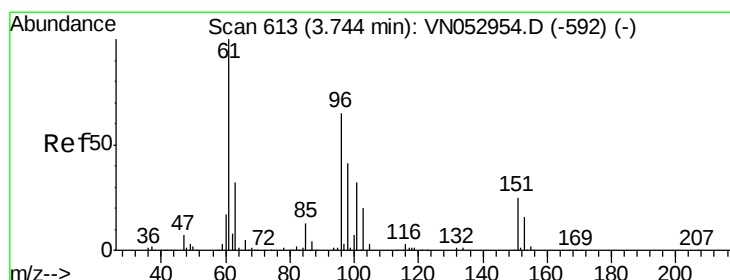
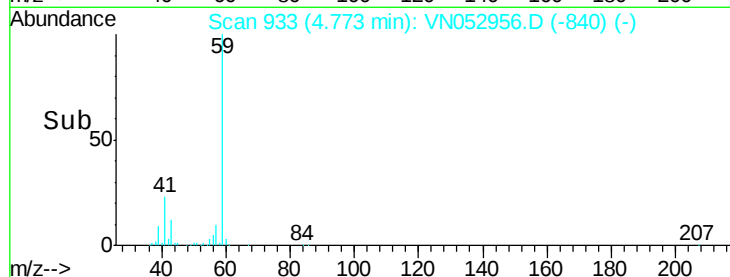
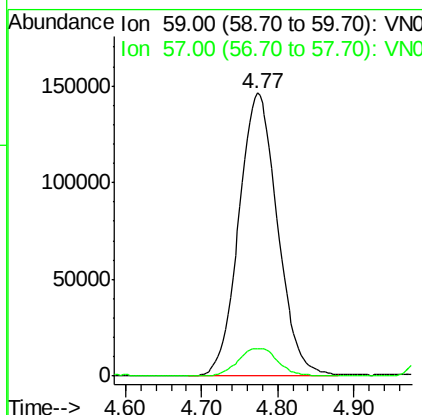
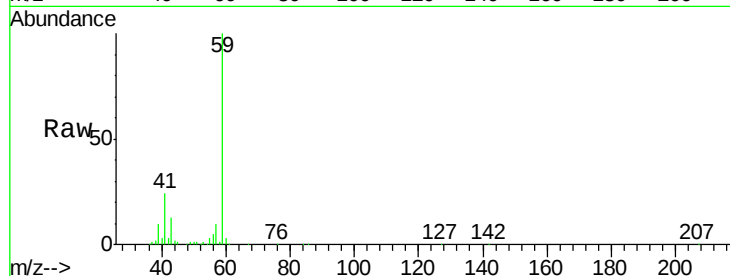
Tert butyl alcohol
Concen: 774.226 ug/l
RT: 4.77 min Scan# 933
Delta R.T. -0.00 min
Lab File: VN052956.D
Acq: 18 Dec 2018 12:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion: 59 Resp: 517833
Ion Ratio Lower Upper
59 100
57 10.1 7.7 11.5

Manual Integrations
APPROVED

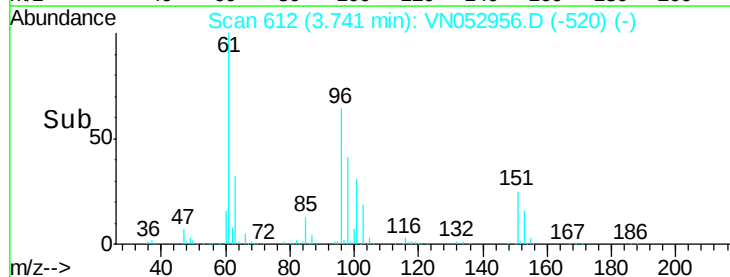
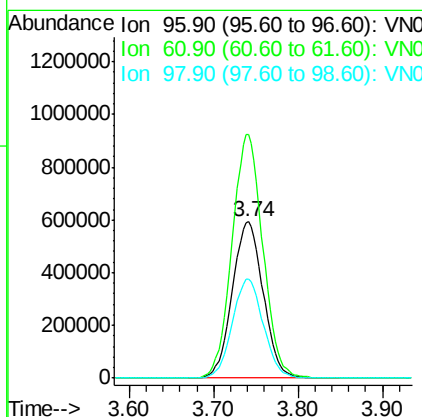
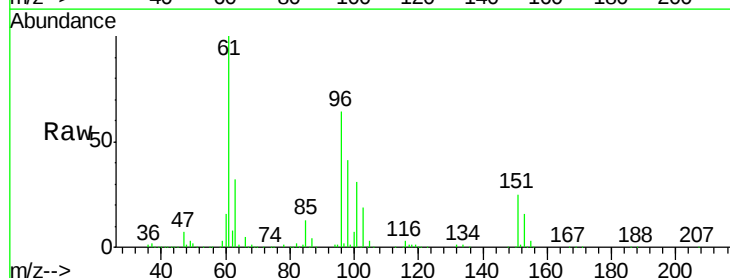
MMDadoda
12/19/2018 12:06:32 PM

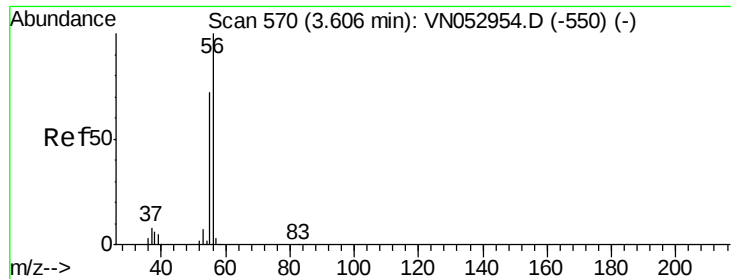


#12

1,1-Dichloroethene
Concen: 145.313 ug/l
RT: 3.74 min Scan# 612
Delta R.T. -0.00 min
Lab File: VN052956.D
Acq: 18 Dec 2018 12:42

Tgt Ion: 96 Resp: 1513615
Ion Ratio Lower Upper
96 100
61 155.8 125.6 188.4
98 63.5 50.6 75.8





#13

Acrolein

Concen: 825.030 ug/l

RT: 3.60 min Scan# 569

Delta R.T. -0.00 min

Lab File: VN052956.D

Acq: 18 Dec 2018 12:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 56 Resp: 493705

Ion Ratio Lower Upper

56 100

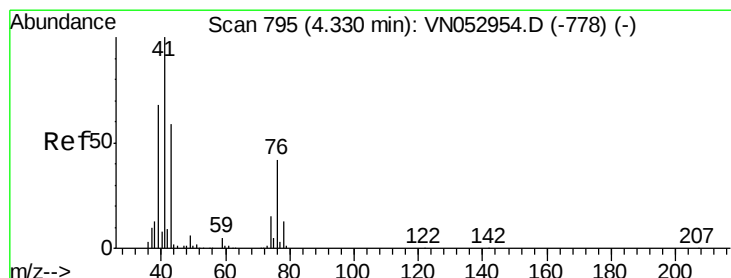
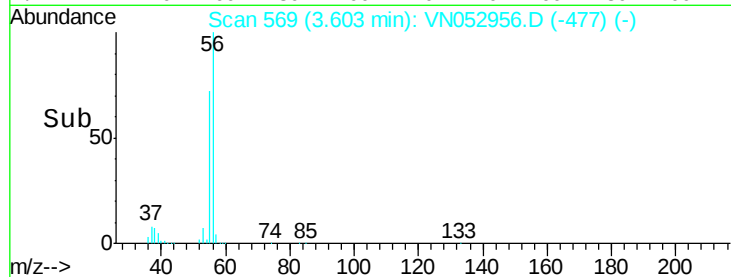
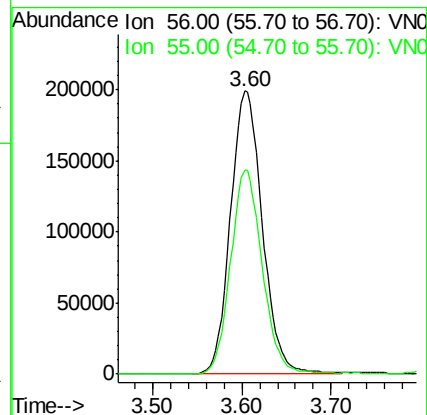
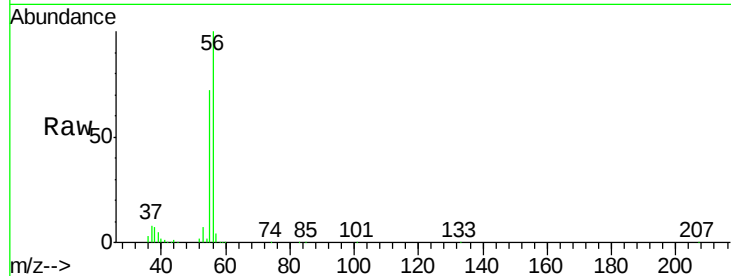
55 71.6 56.6 85.0

Manual Integrations

APPROVED

MMDadoda

12/19/2018 12:06:32 PM



#14

Allyl chloride

Concen: 159.565 ug/l

RT: 4.32 min Scan# 793

Delta R.T. -0.01 min

Lab File: VN052956.D

Acq: 18 Dec 2018 12:42

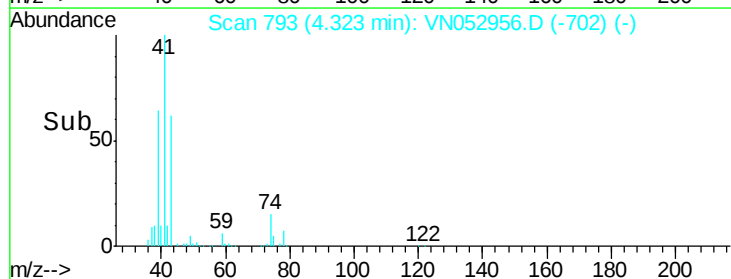
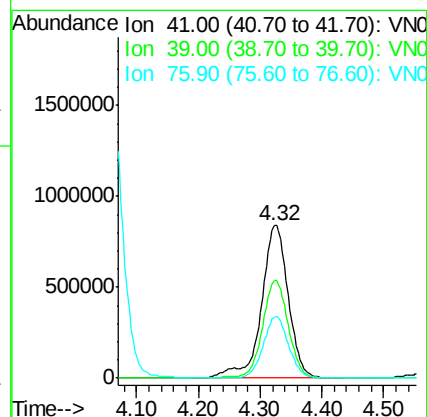
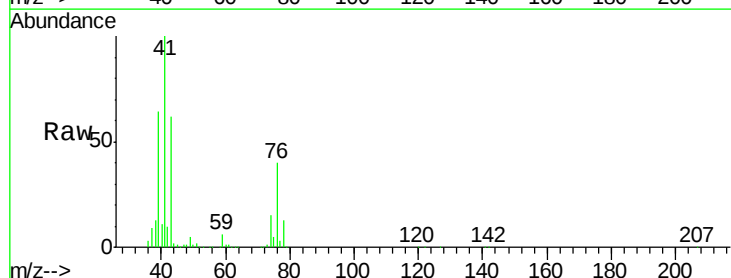
Tgt Ion: 41 Resp: 2534153

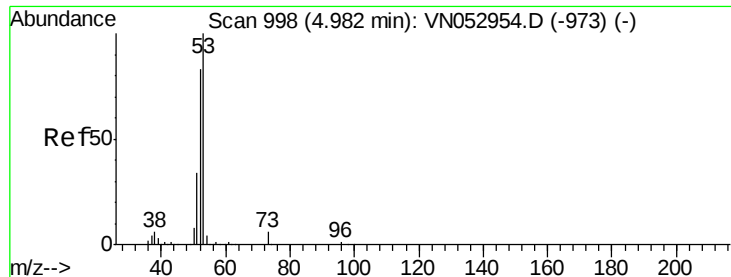
Ion Ratio Lower Upper

41 100

39 61.6 54.1 81.1

76 37.4 30.3 45.5





#15

Acrylonitrile

Concen: 727.739 ug/l

RT: 4.98 min Scan# 998

Delta R.T. -0.00 min

Lab File: VN052956.D

Acq: 18 Dec 2018 12:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 53 Resp: 2735083

Ion Ratio Lower Upper

53 100

52 82.2 65.1 97.7

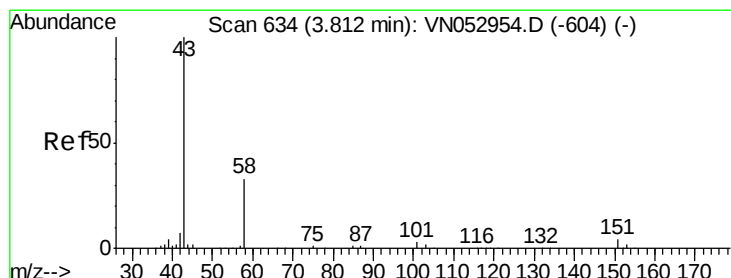
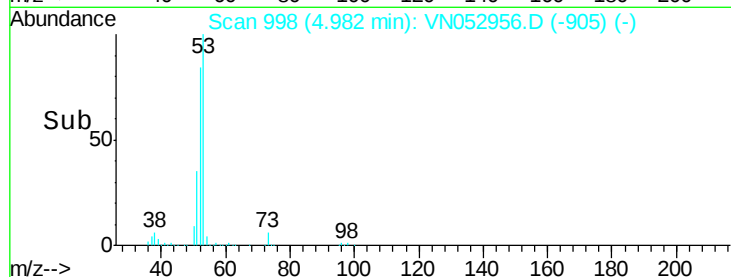
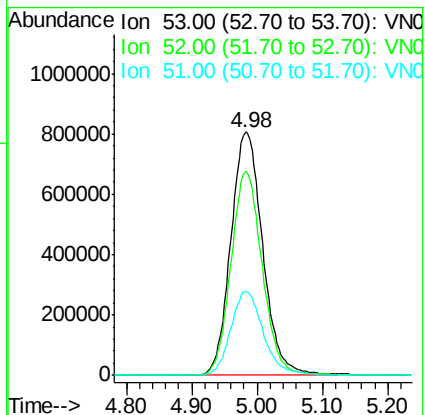
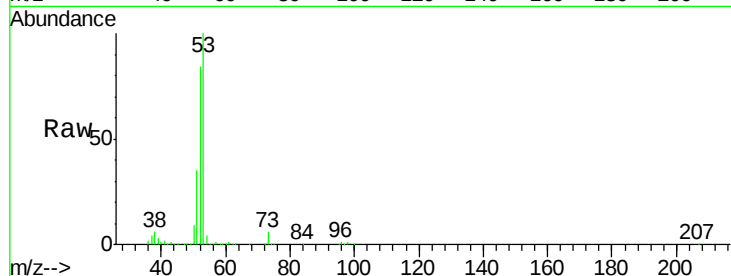
51 35.3 28.1 42.1

Manual Integrations

APPROVED

MMDadoda

12/19/2018 12:06:32 PM



#16

Acetone

Concen: 743.003 ug/l

RT: 3.81 min Scan# 634

Delta R.T. -0.00 min

Lab File: VN052956.D

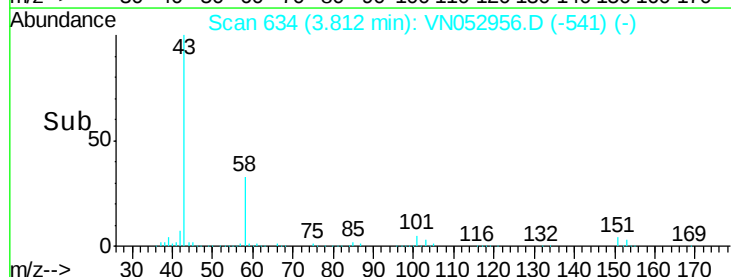
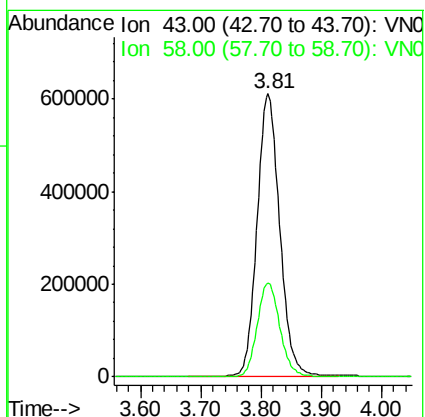
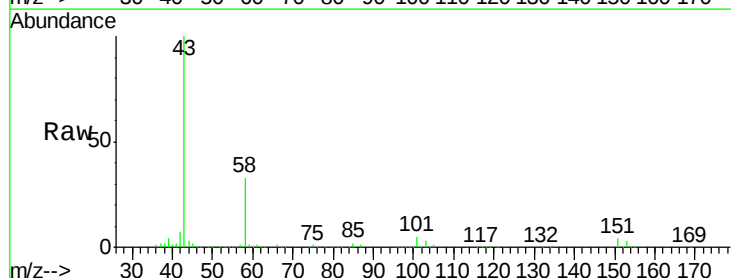
Acq: 18 Dec 2018 12:42

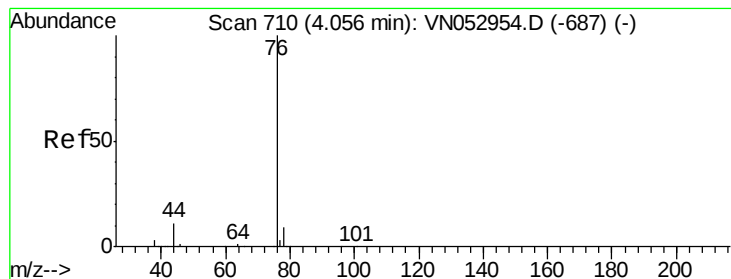
Tgt Ion: 43 Resp: 1609713

Ion Ratio Lower Upper

43 100

58 33.4 25.4 38.0





#17

Carbon Disulfide

Concen: 138.820 ug/l

RT: 4.06 min Scan# 710

Delta R.T. -0.00 min

Lab File: VN052956.D

Acq: 18 Dec 2018 12:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 76 Resp: 4750119

Ion Ratio Lower Upper

76 100

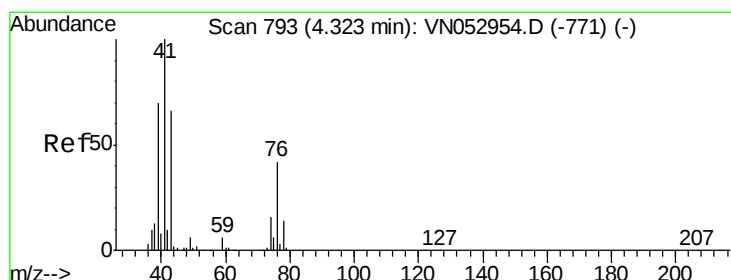
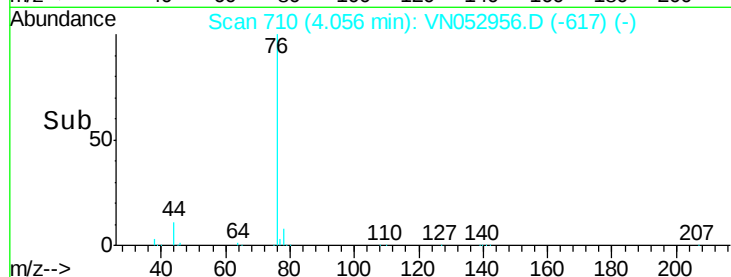
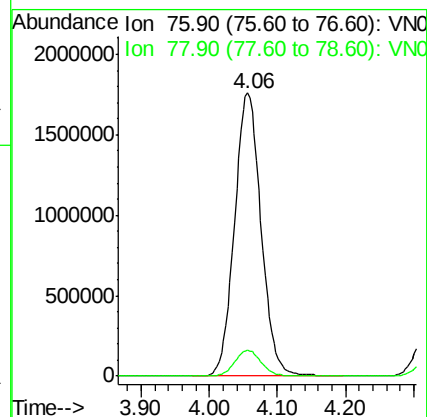
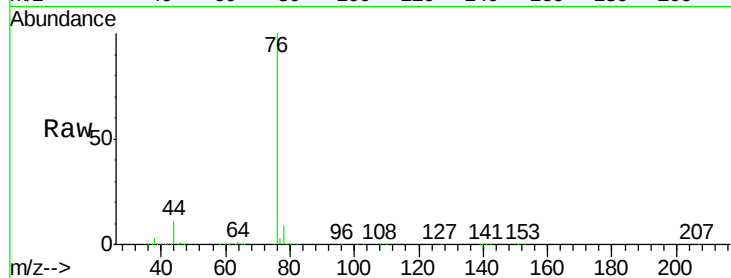
78 9.1 7.1 10.7

Manual Integrations

APPROVED

MMDadoda

12/19/2018 12:06:32 PM



#18

Methyl Acetate

Concen: 148.274 ug/l

RT: 4.32 min Scan# 792

Delta R.T. -0.00 min

Lab File: VN052956.D

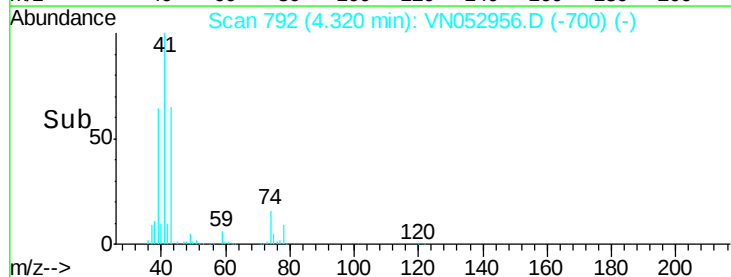
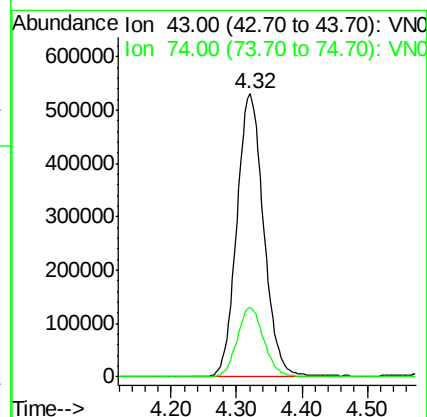
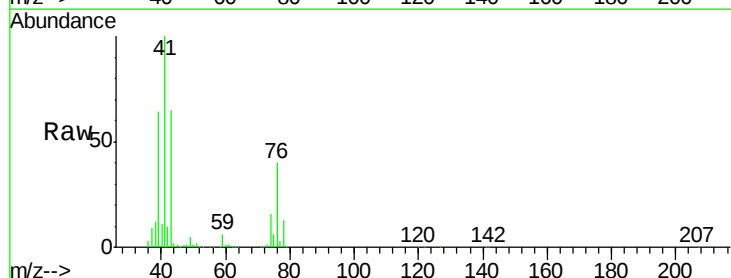
Acq: 18 Dec 2018 12:42

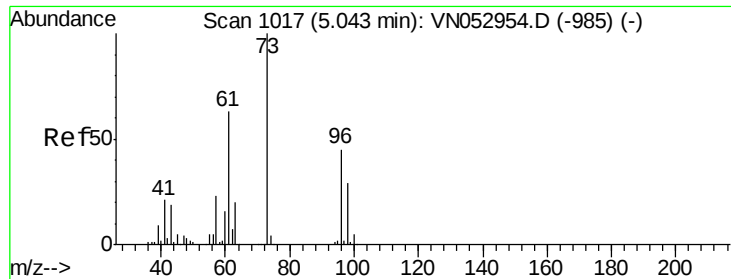
Tgt Ion: 43 Resp: 1506663

Ion Ratio Lower Upper

43 100

74 24.5 19.2 28.8





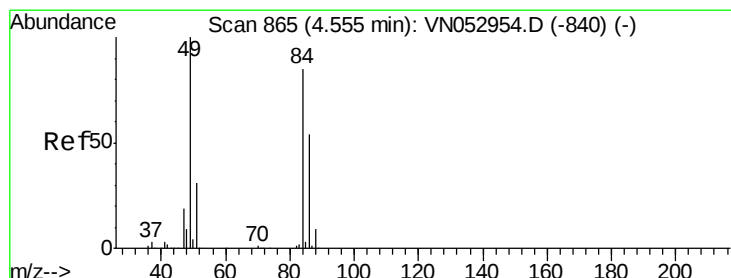
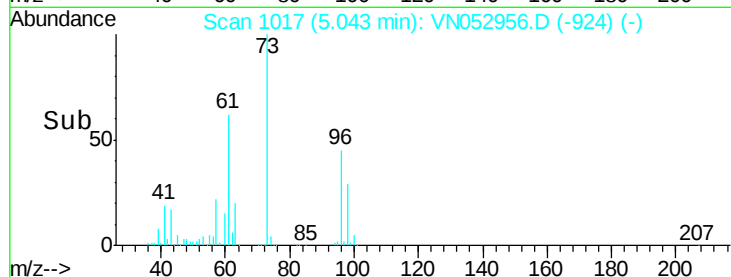
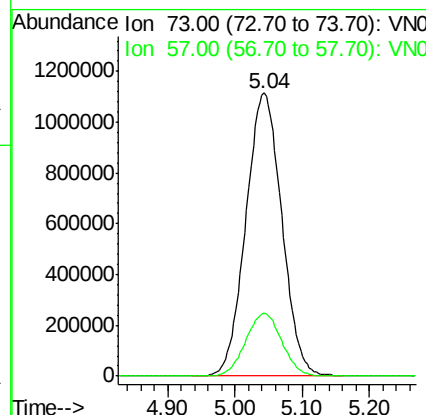
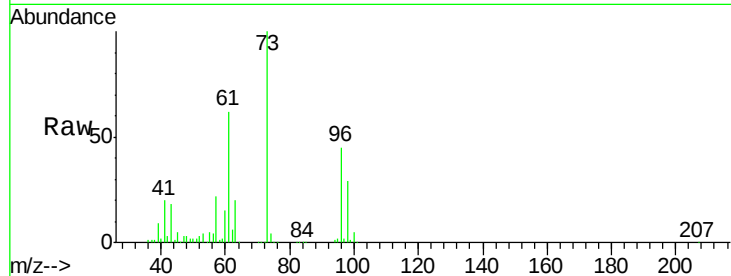
#19
Methyl tert-butyl Ether
Concen: 149.070 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. -0.00 min
Lab File: VN052956.D
Acq: 18 Dec 2018 12:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion: 73 Resp: 4137887
Ion Ratio Lower Upper
73 100
57 22.3 18.4 27.6

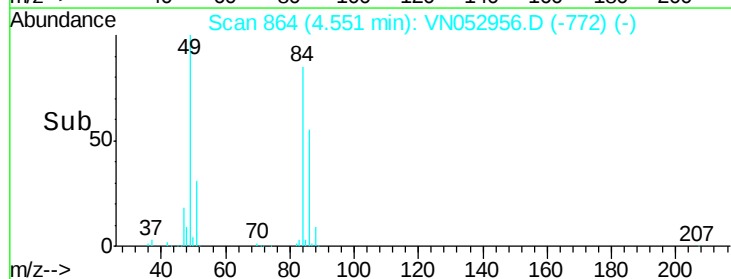
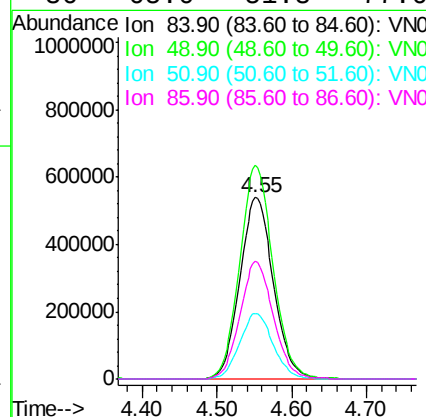
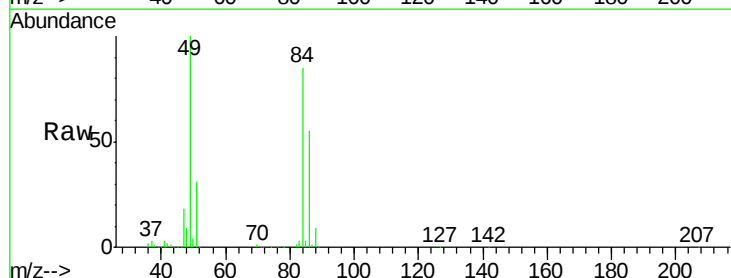
Manual Integrations
APPROVED

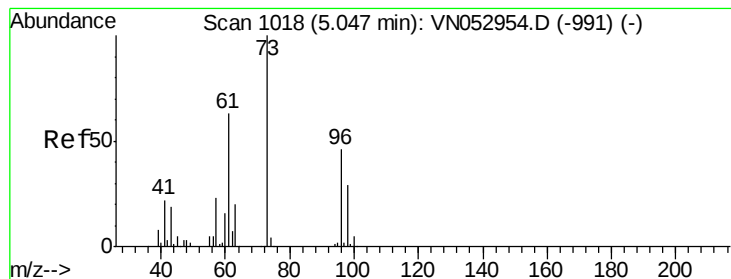
MMDadoda
12/19/2018 12:06:32 PM



#20
Methylene Chloride
Concen: 141.367 ug/l
RT: 4.55 min Scan# 864
Delta R.T. -0.00 min
Lab File: VN052956.D
Acq: 18 Dec 2018 12:42

Tgt Ion: 84 Resp: 1684226
Ion Ratio Lower Upper
84 100
49 117.8 96.8 145.2
51 36.2 29.9 44.9
86 65.0 51.8 77.6





#21

trans-1,2-Dichloroethene

Concen: 143.046 ug/l

RT: 5.04 min Scan# 1017

Delta R.T. -0.00 min

Lab File: VN052956.D

Acq: 18 Dec 2018 12:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 96 Resp: 1604932

Ion Ratio Lower Upper

96 100

61 136.8 110.8 166.2

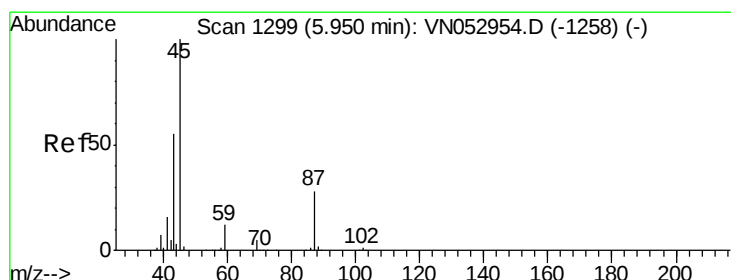
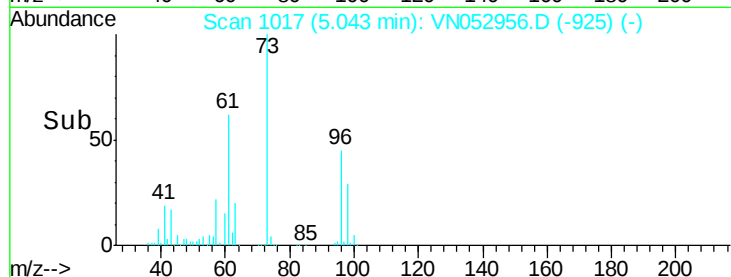
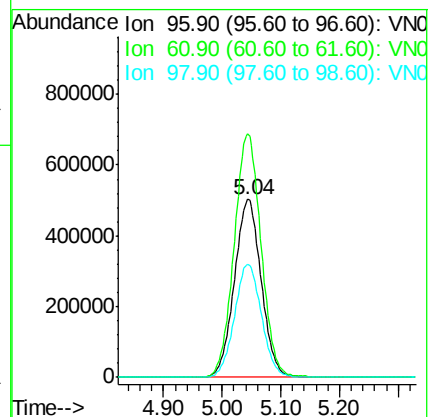
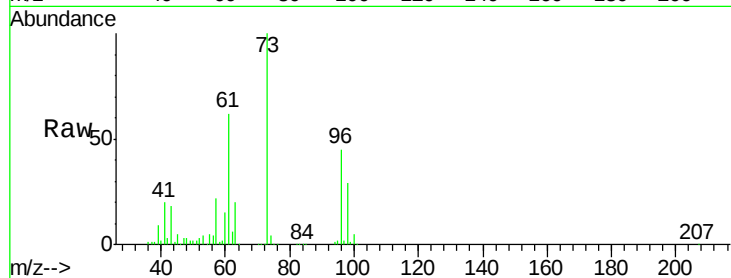
98 63.5 51.4 77.2

Manual Integrations

APPROVED

MMDadoda

12/19/2018 12:06:32 PM



#22

Diisopropyl ether

Concen: 147.422 ug/l

RT: 5.95 min Scan# 1299

Delta R.T. -0.00 min

Lab File: VN052956.D

Acq: 18 Dec 2018 12:42

Tgt Ion: 45 Resp: 5065156

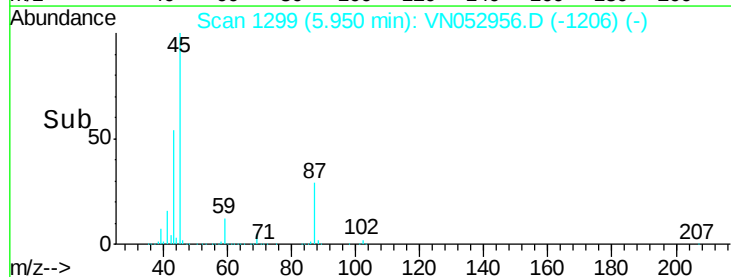
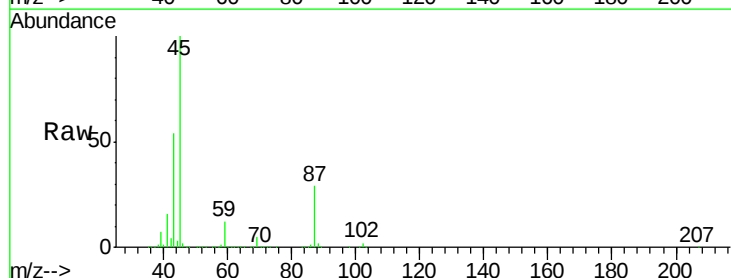
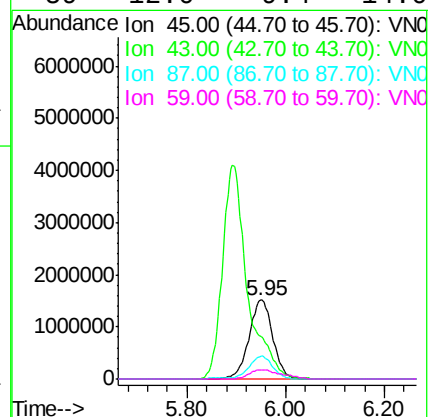
Ion Ratio Lower Upper

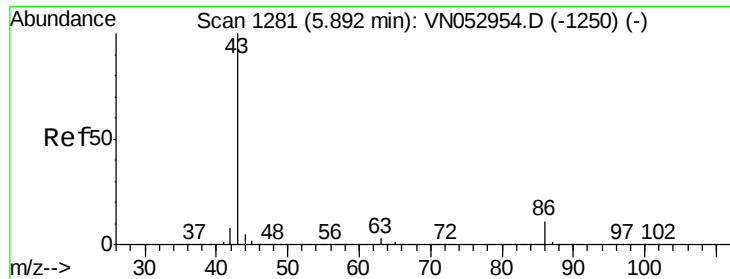
45 100

43 53.7 45.5 68.3

87 28.5 22.0 33.0

59 12.0 9.4 14.0





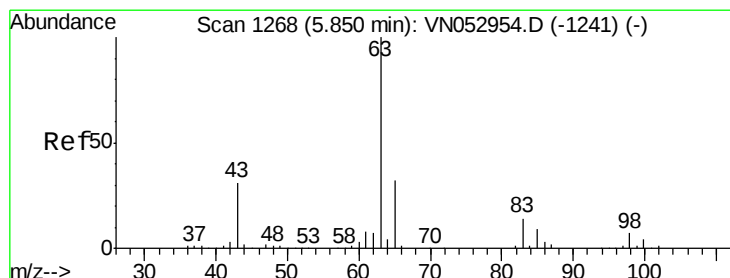
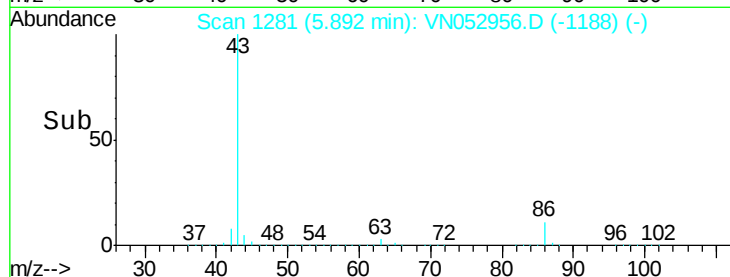
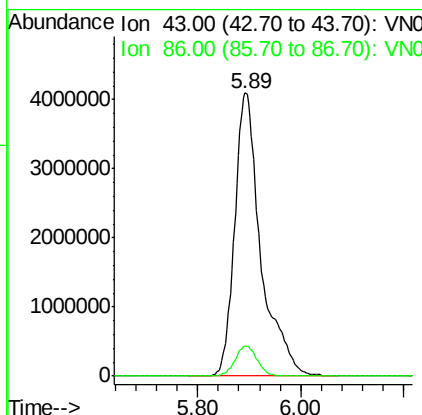
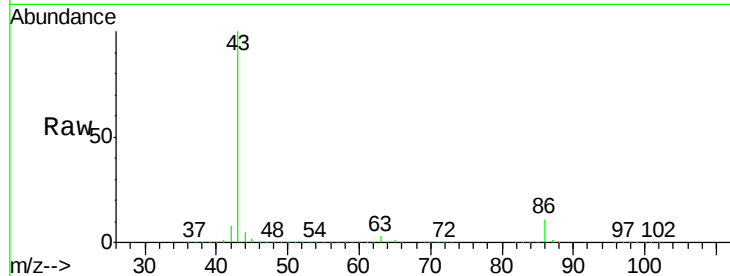
#23
 Vinyl Acetate
 Concen: 730.824 ug/l
 RT: 5.89 min Scan# 1281
 Delta R.T. -0.00 min
 Lab File: VN052956.D
 Acq: 18 Dec 2018 12:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tgt Ion: 43 Resp:14459091
 Ion Ratio Lower Upper
 43 100
 86 10.7 8.1 12.1

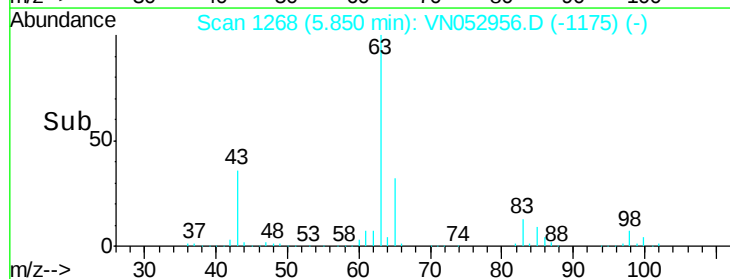
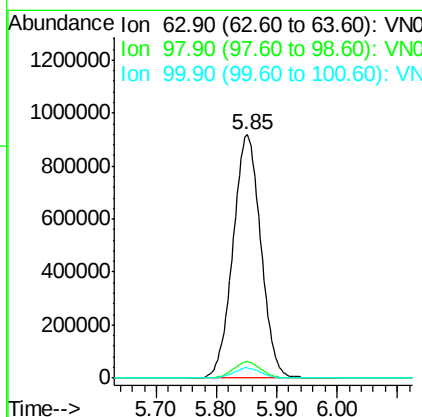
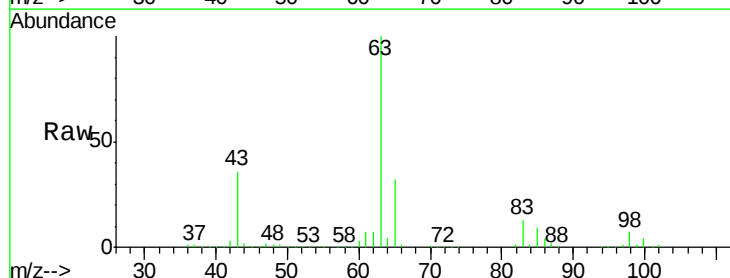
Manual Integrations
 APPROVED

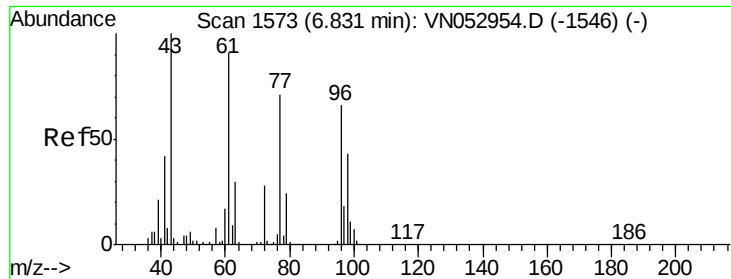
MMDadoda
 12/19/2018 12:06:32 PM



#24
 1,1-Dichloroethane
 Concen: 144.737 ug/l
 RT: 5.85 min Scan# 1268
 Delta R.T. -0.00 min
 Lab File: VN052956.D
 Acq: 18 Dec 2018 12:42

Tgt Ion: 63 Resp: 2963897
 Ion Ratio Lower Upper
 63 100
 98 6.8 3.1 9.4
 100 4.2 2.0 5.8





#25

2-Butanone

Concen: 778.358 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. -0.00 min

Lab File: VN052956.D

Acq: 18 Dec 2018 12:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 43 Resp: 2807946

Ion Ratio Lower Upper

43 100

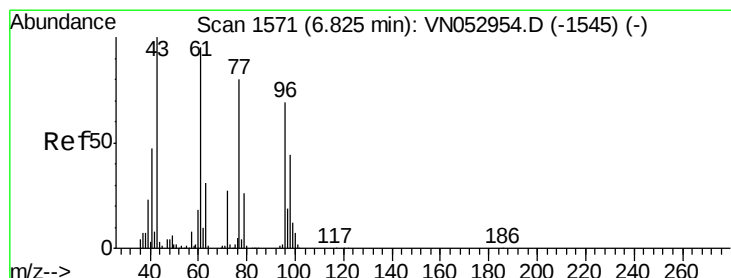
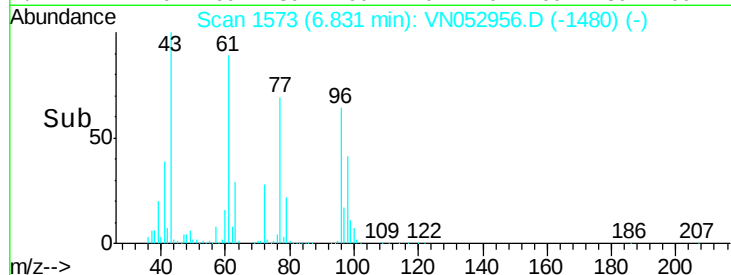
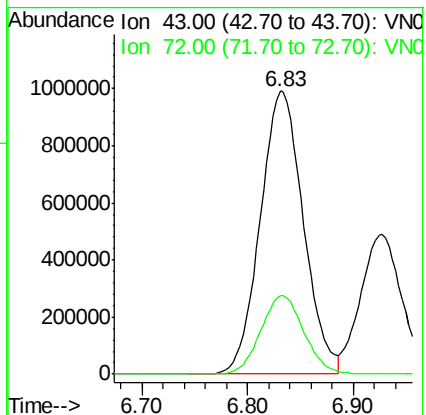
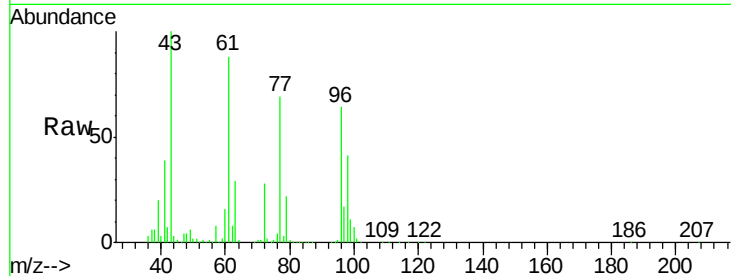
72 27.6 21.0 31.6

Manual Integrations

APPROVED

MMDadoda

12/19/2018 12:06:32 PM



#26

2,2-Dichloropropane

Concen: 145.415 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. -0.00 min

Lab File: VN052956.D

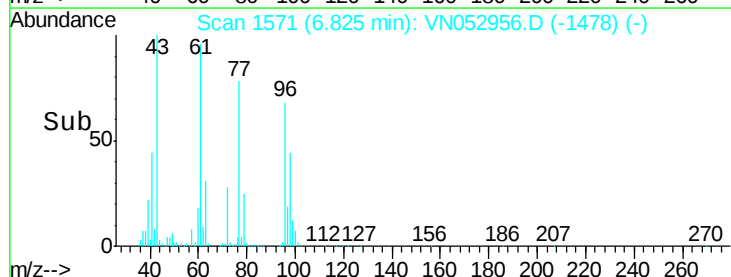
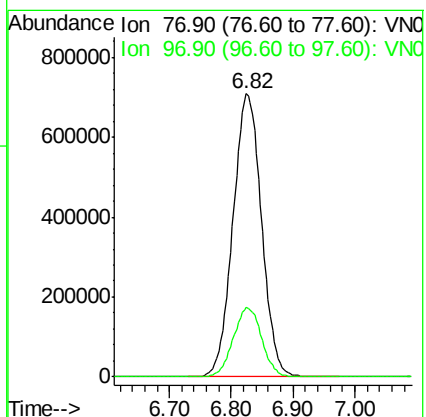
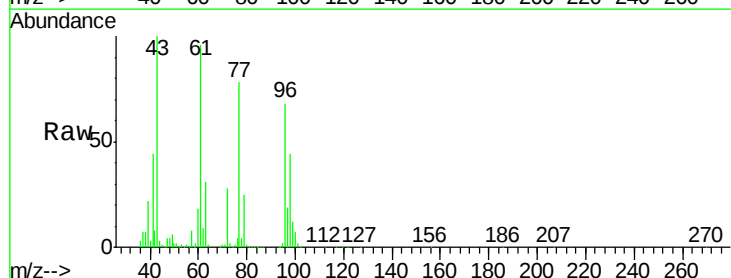
Acq: 18 Dec 2018 12:42

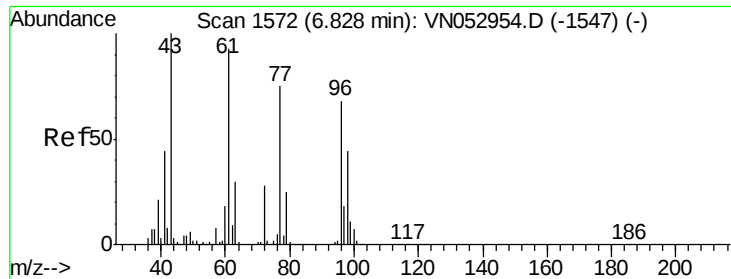
Tgt Ion: 77 Resp: 2271409

Ion Ratio Lower Upper

77 100

97 24.3 11.9 35.9





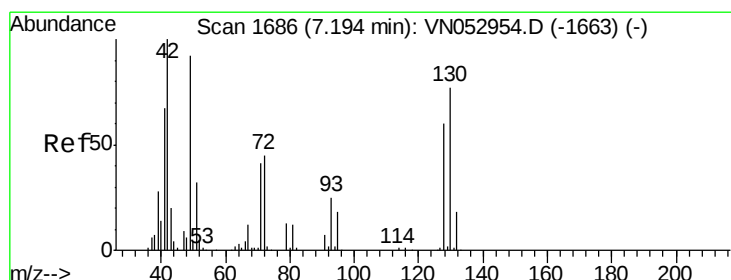
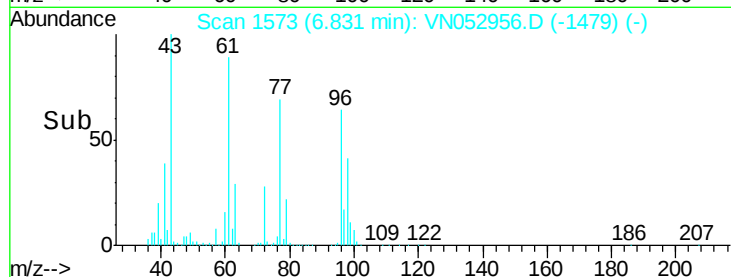
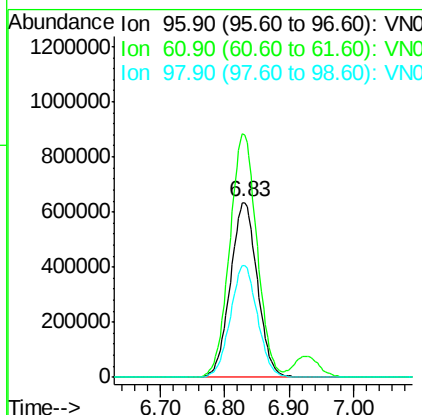
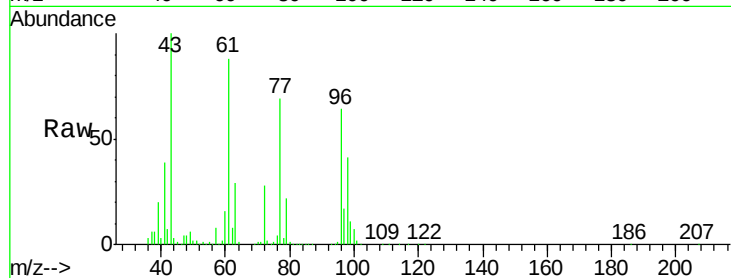
#27
 cis-1,2-Dichloroethene
 Concen: 146.358 ug/l
 RT: 6.83 min Scan# 1573
 Delta R.T. 0.00 min
 Lab File: VN052956.D
 Acq: 18 Dec 2018 12:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tgt Ion: 96 Resp: 1852160
 Ion Ratio Lower Upper
 96 100
 61 140.3 0.0 284.2
 98 64.2 0.0 129.2

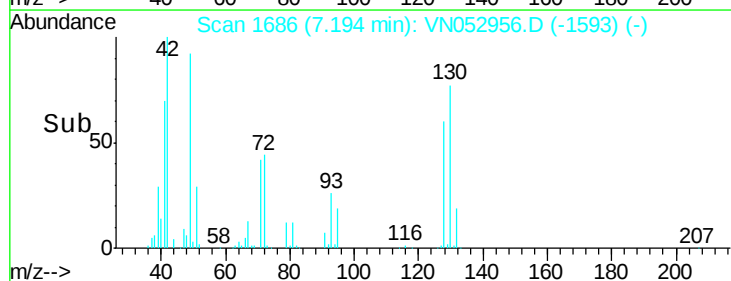
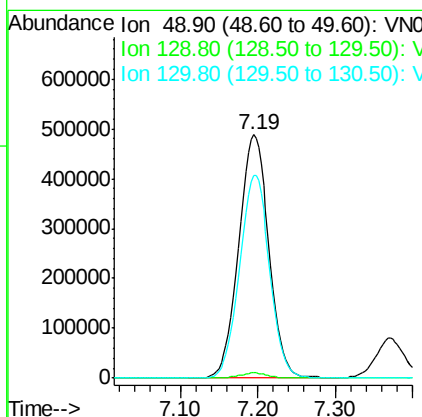
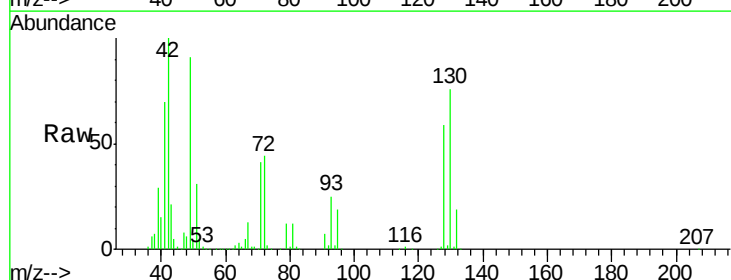
Manual Integrations
 APPROVED

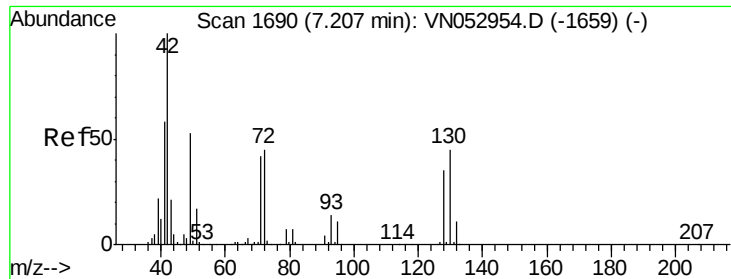
MMDadoda
 12/19/2018 12:06:32 PM



#28
 Bromochloromethane
 Concen: 149.613 ug/l
 RT: 7.19 min Scan# 1686
 Delta R.T. -0.00 min
 Lab File: VN052956.D
 Acq: 18 Dec 2018 12:42

Tgt Ion: 49 Resp: 1320387
 Ion Ratio Lower Upper
 49 100
 129 2.0 0.0 4.0
 130 83.4 63.3 94.9





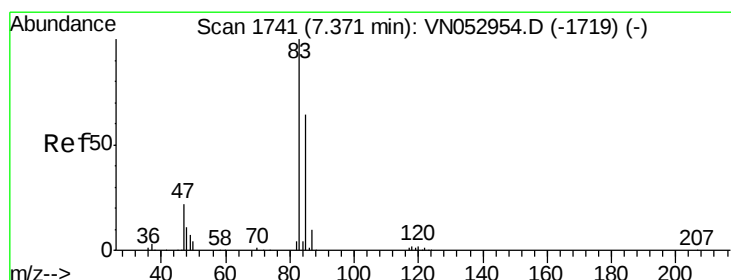
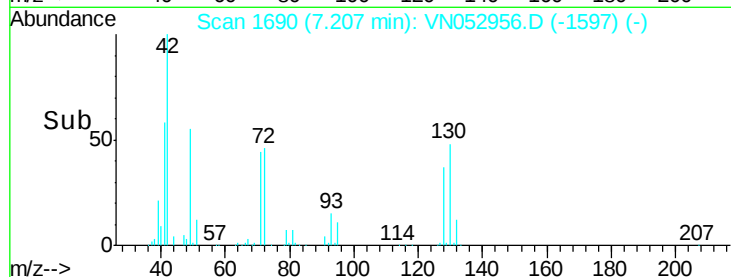
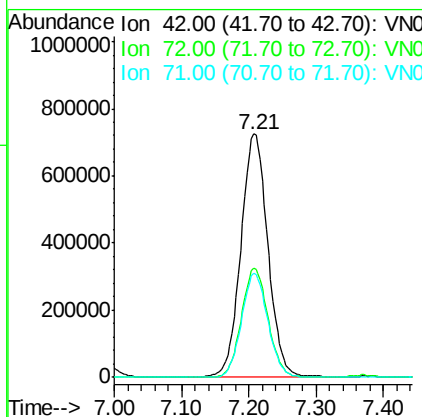
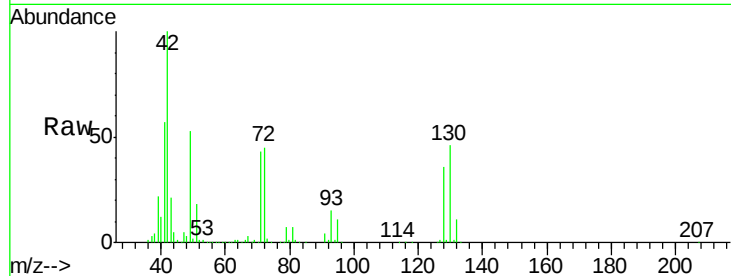
#29
Tetrahydrofuran
Concen: 743.851 ug/l
RT: 7.21 min Scan# 1690
Delta R.T. -0.00 min
Lab File: VN052956.D
Acq: 18 Dec 2018 12:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion: 42 Resp: 2019582
Ion Ratio Lower Upper
42 100
72 44.3 34.7 52.1
71 41.8 32.3 48.5

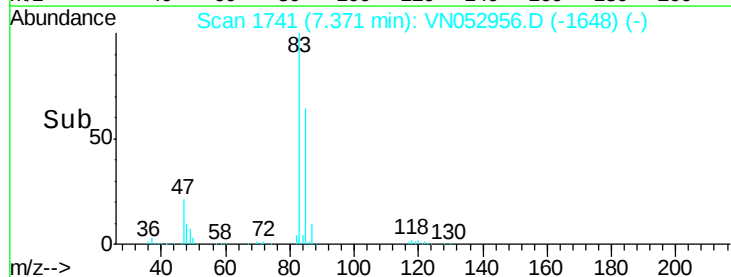
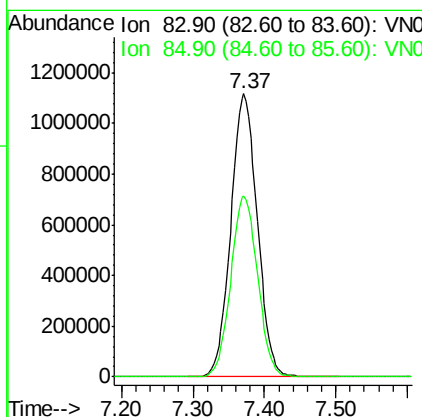
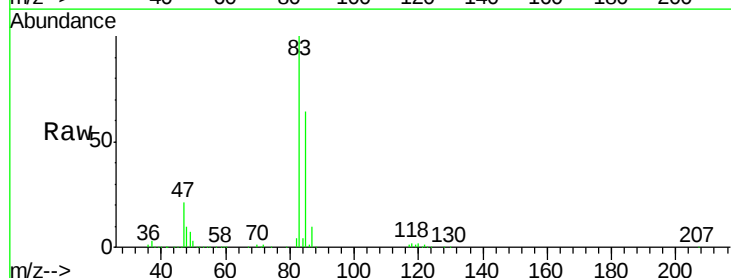
Manual Integrations
APPROVED

MMDadoda
12/19/2018 12:06:32 PM



#30
Chloroform
Concen: 143.812 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN052956.D
Acq: 18 Dec 2018 12:42

Tgt Ion: 83 Resp: 2895964
Ion Ratio Lower Upper
83 100
85 64.1 52.1 78.1





#31

Cyclohexane

Concen: 120.987 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. -0.00 min

Lab File: VN052956.D

Acq: 18 Dec 2018 12:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 56 Resp: 2816749

Ion Ratio Lower Upper

56 100

69 31.5 26.6 39.8

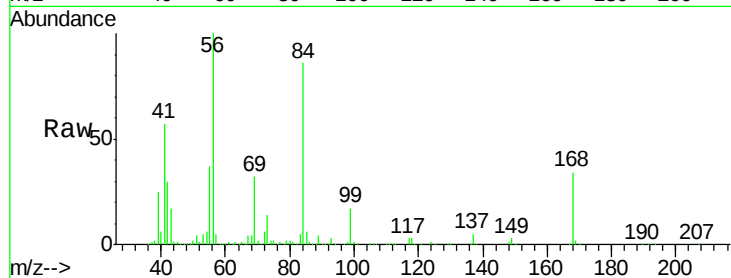
84 85.3 68.4 102.6

Manual Integrations

APPROVED

MMDadoda

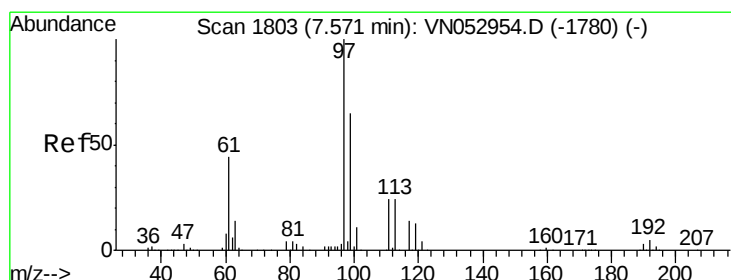
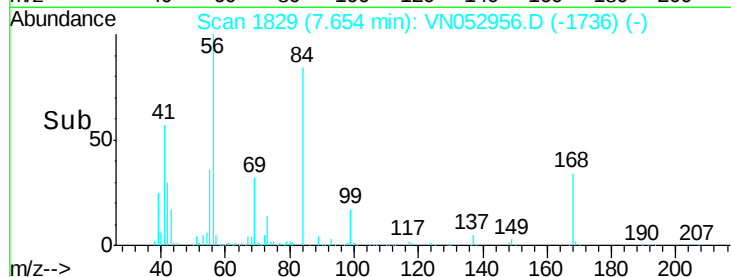
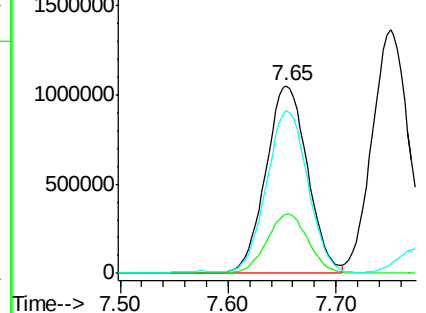
12/19/2018 12:06:32 PM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#32

1,1,1-Trichloroethane

Concen: 146.981 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. -0.00 min

Lab File: VN052956.D

Acq: 18 Dec 2018 12:42

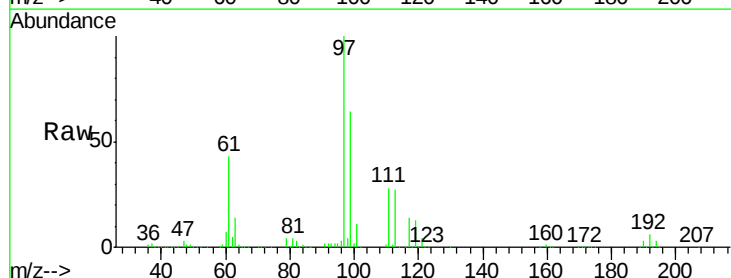
Tgt Ion: 97 Resp: 2512463

Ion Ratio Lower Upper

97 100

99 64.3 51.1 76.7

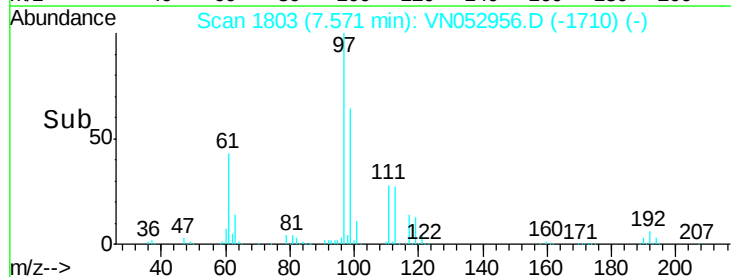
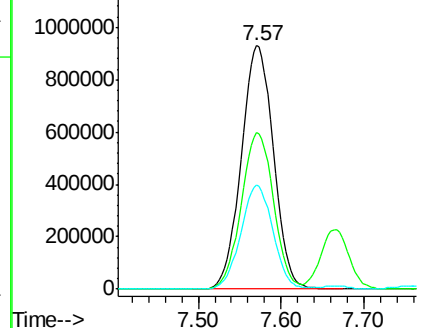
61 42.4 35.0 52.6

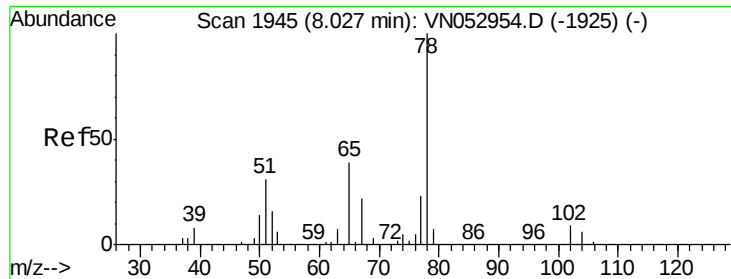


Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 98.90 (98.60 to 99.60): VN0

Ion 60.90 (60.60 to 61.60): VN0





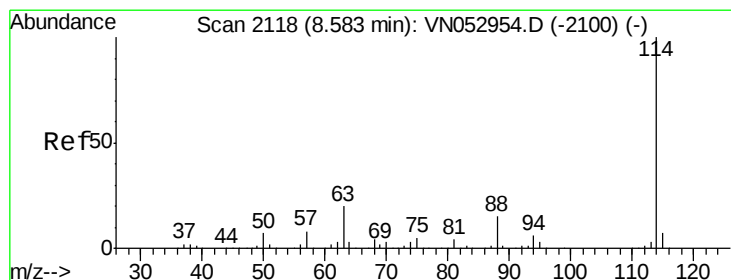
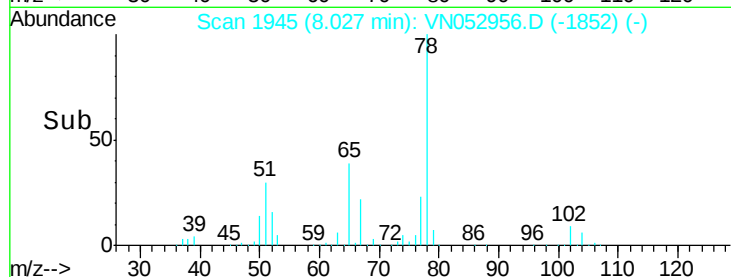
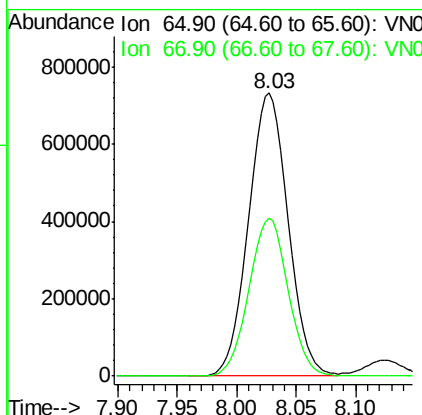
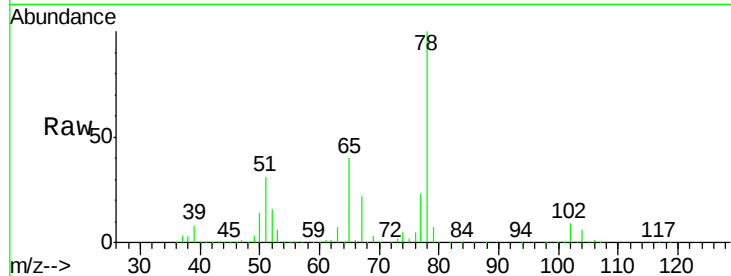
#33
 1,2-Dichloroethane-d4
 Concen: 146.981 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN052956.D
 Acq: 18 Dec 2018 12:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tgt Ion: 65 Resp: 1688038
 Ion Ratio Lower Upper
 65 100
 67 55.3 0.0 110.4

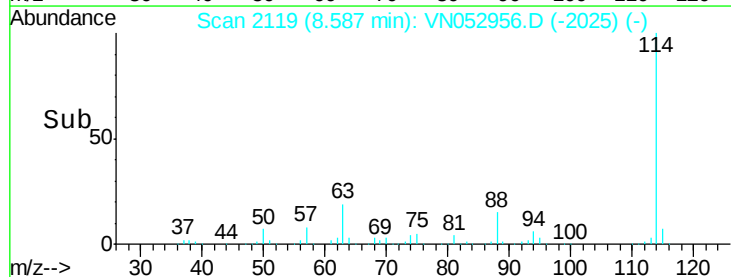
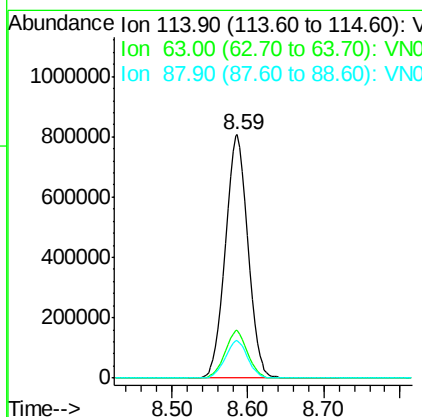
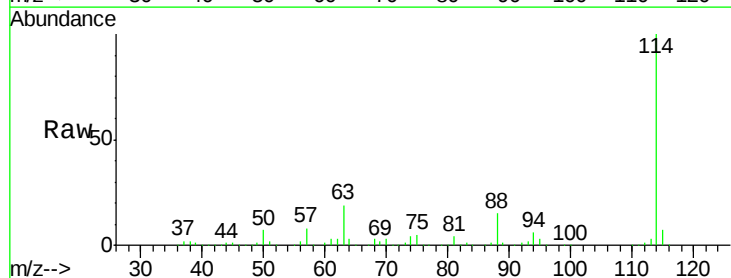
Manual Integrations
 APPROVED

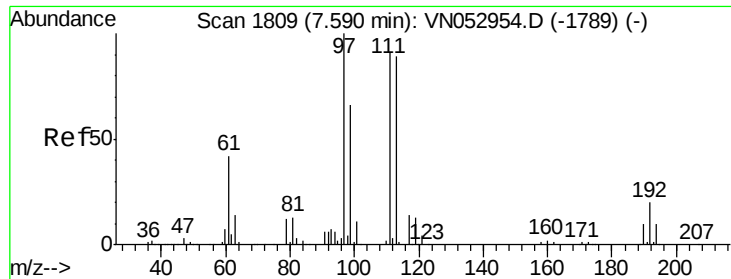
MMDadoda
 12/19/2018 12:06:32 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052956.D
 Acq: 18 Dec 2018 12:42

Tgt Ion: 114 Resp: 1670155
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 39.8
 88 15.4 0.0 31.0





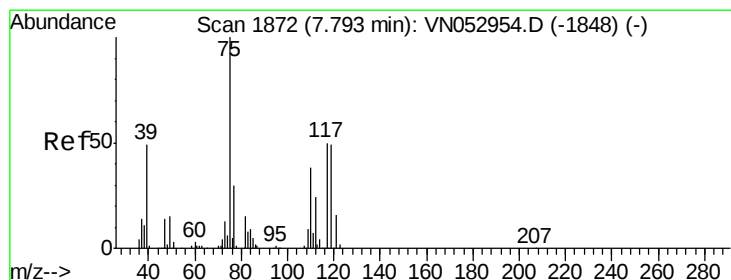
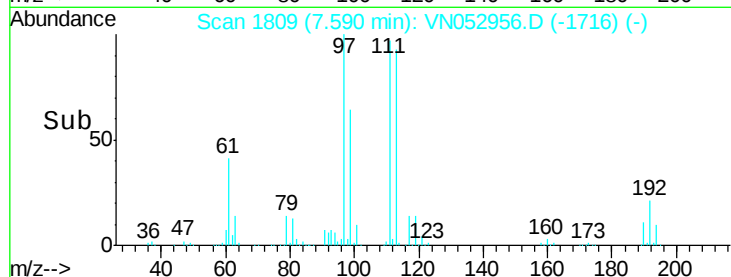
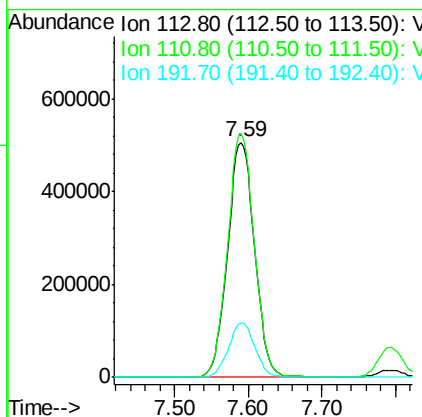
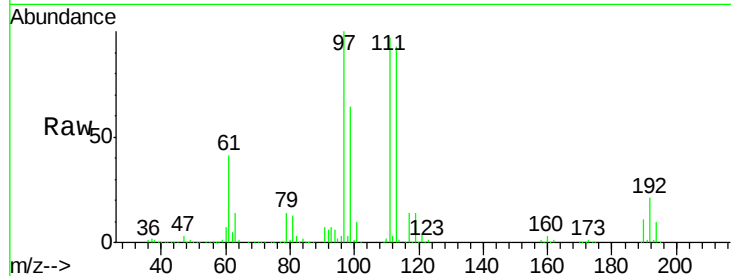
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. -0.00 min
Lab File: VN052956.D
Acq: 18 Dec 2018 12:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.8	83.0	124.4
192	22.7	17.5	26.3

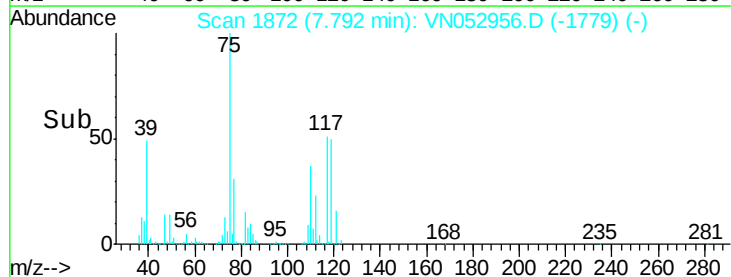
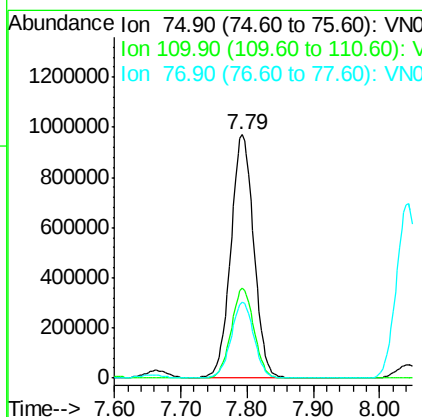
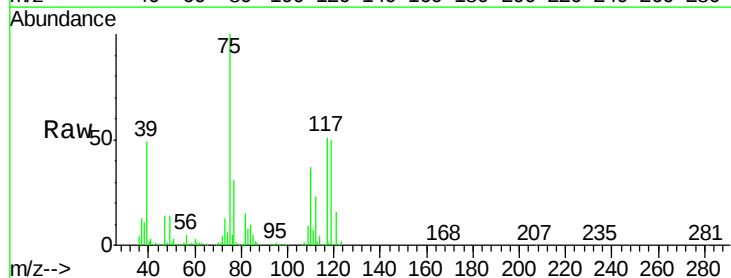
Manual Integrations
APPROVED

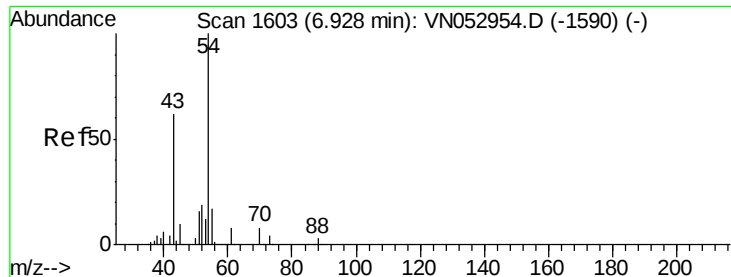
MMDadoda
12/19/2018 12:06:32 PM



#36
1,1-Dichloropropene
Concen: 144.430 ug/l
RT: 7.79 min Scan# 1872
Delta R.T. -0.00 min
Lab File: VN052956.D
Acq: 18 Dec 2018 12:42

Tgt Ion	Ratio	Lower	Upper
75	100		
110	36.5	18.2	54.6
77	31.1	24.9	37.3





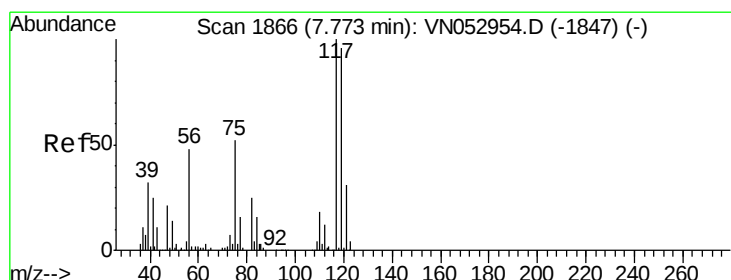
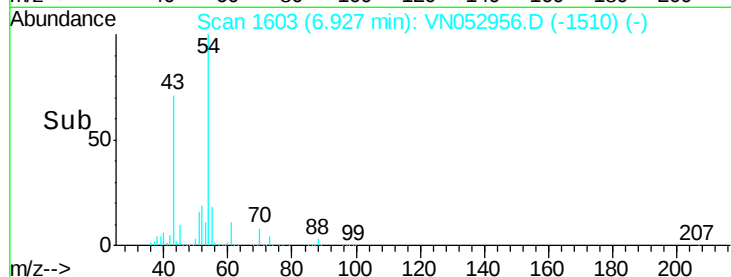
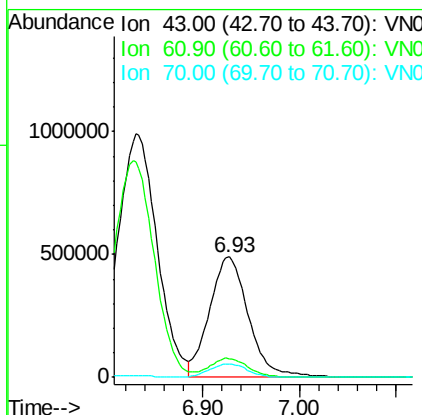
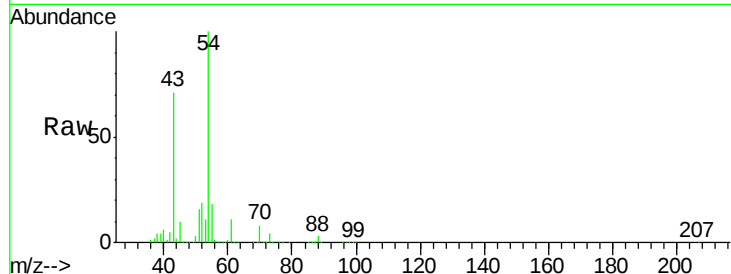
#37
Ethyl Acetate
Concen: 151.642 ug/l
RT: 6.93 min Scan# 1603
Delta R.T. -0.00 min
Lab File: VN052956.D
Acq: 18 Dec 2018 12:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion: 43 Resp: 1354584
Ion Ratio Lower Upper
43 100
61 15.4 11.8 17.6
70 10.9 8.4 12.6

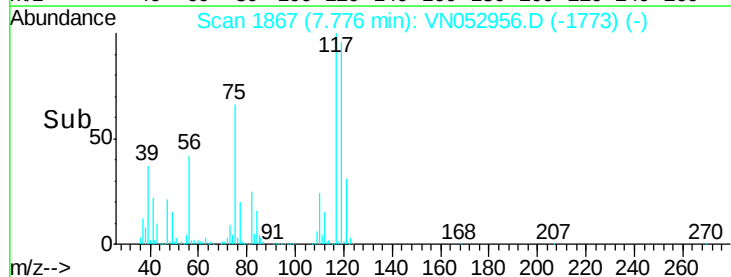
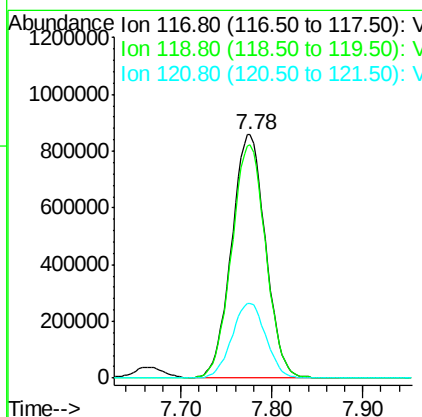
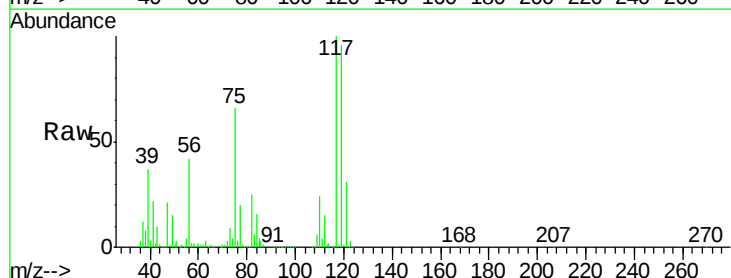
Manual Integrations
APPROVED

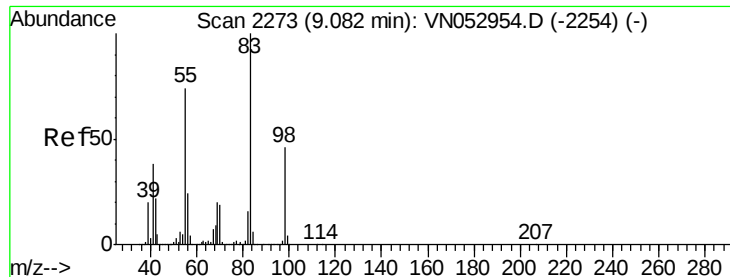
MMDadoda
12/19/2018 12:06:32 PM



#38
Carbon Tetrachloride
Concen: 151.092 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN052956.D
Acq: 18 Dec 2018 12:42

Tgt Ion: 117 Resp: 2217378
Ion Ratio Lower Upper
117 100
119 95.9 77.1 115.7
121 30.9 24.9 37.3





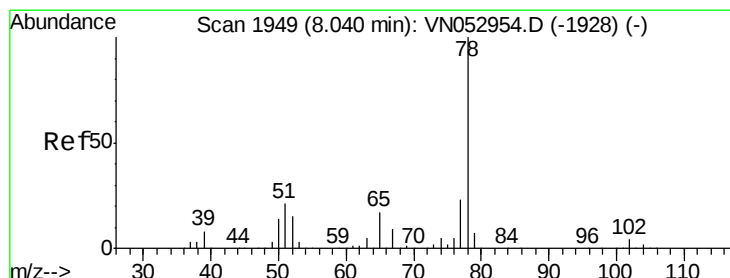
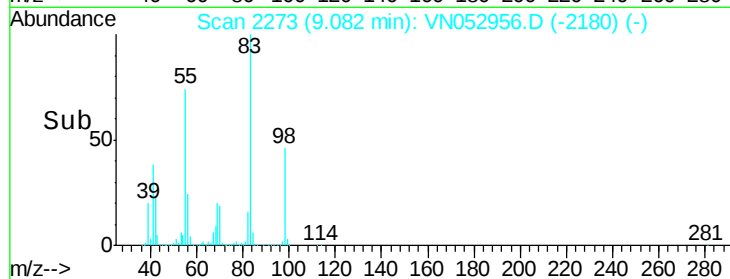
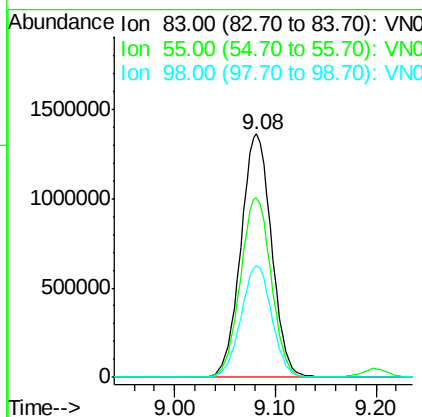
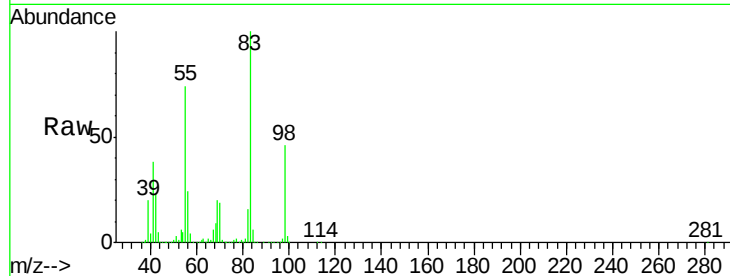
#39
Methylcyclohexane
Concen: 146.108 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. -0.00 min
Lab File: VN052956.D
Acq: 18 Dec 2018 12:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion: 83 Resp: 2857661
Ion Ratio Lower Upper
83 100
55 74.0 61.3 91.9
98 46.2 37.0 55.4

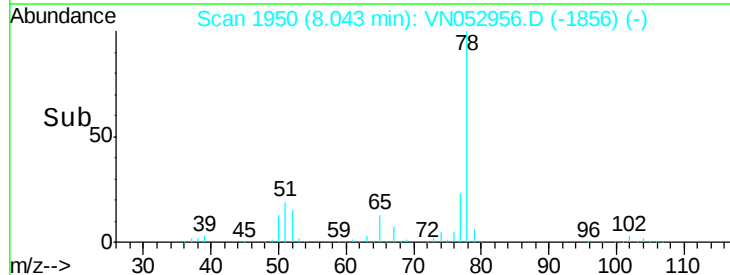
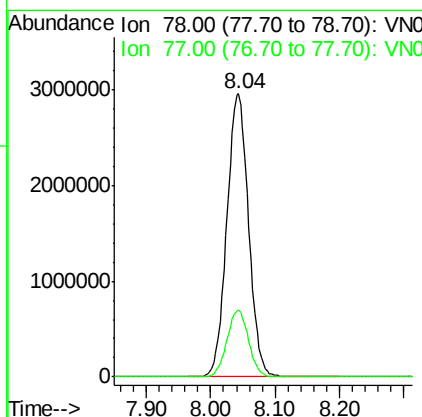
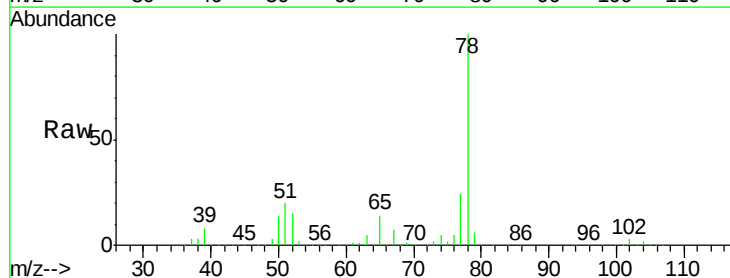
Manual Integrations
APPROVED

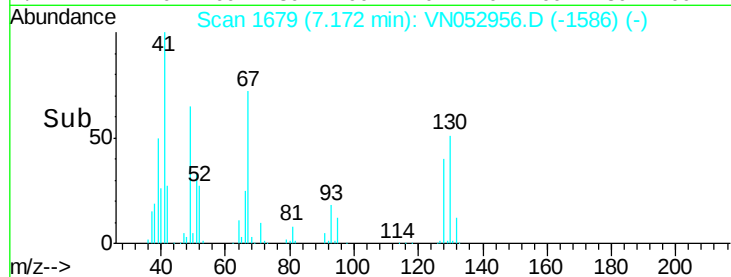
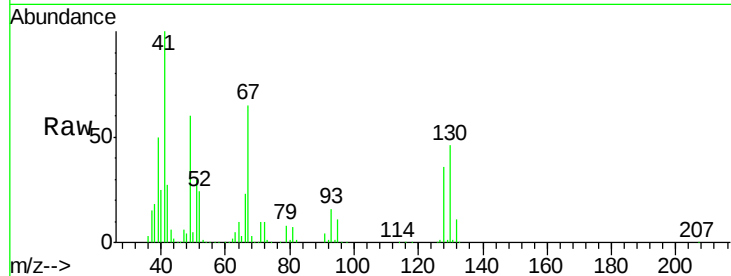
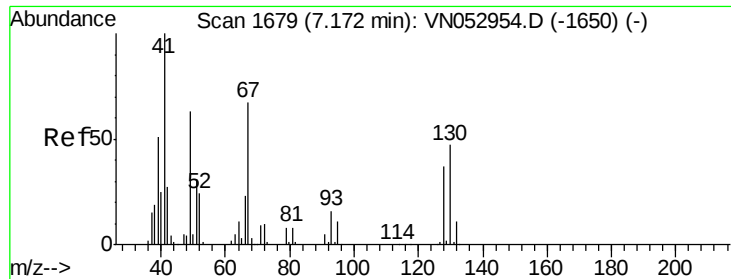
MMDadoda
12/19/2018 12:06:32 PM



#40
Benzene
Concen: 144.114 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN052956.D
Acq: 18 Dec 2018 12:42

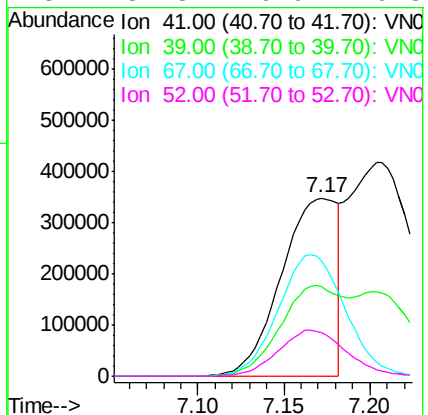
Tgt Ion: 78 Resp: 6917008
Ion Ratio Lower Upper
78 100
77 23.5 18.5 27.7





#41
Methacrylonitrile
Concen: 151.841 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. -0.00 min
Lab File: VN052956.D
Acq: 18 Dec 2018 12:42

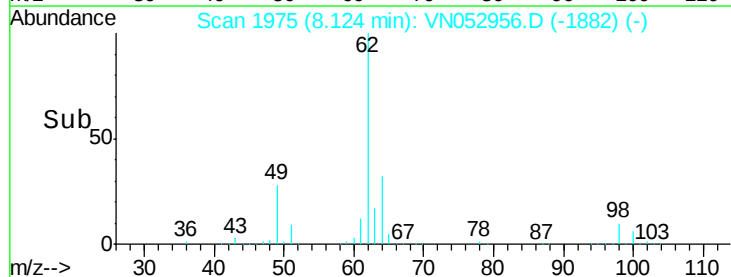
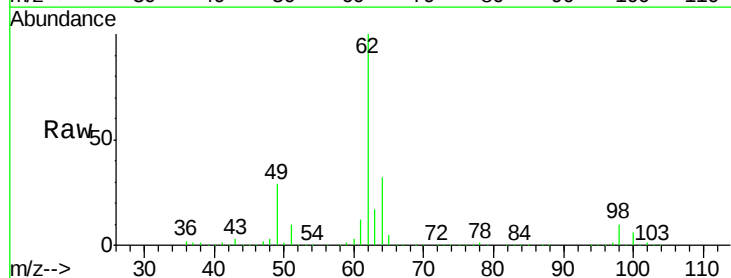
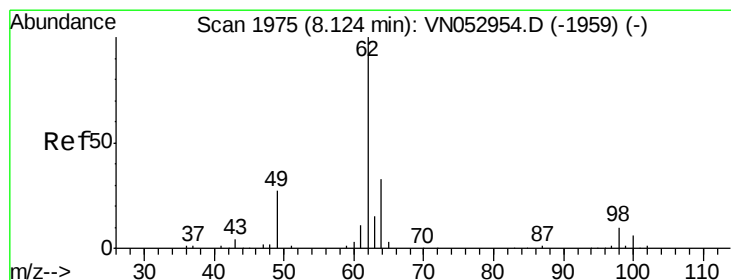
Tgt Ion	Ratio	Lower	Upper
41	100		
39	58.2	48.0	72.0
67	82.0	70.3	105.5
52	31.3	26.9	40.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

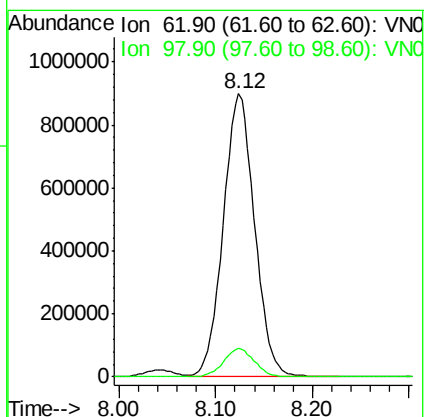
Manual Integrations
APPROVED

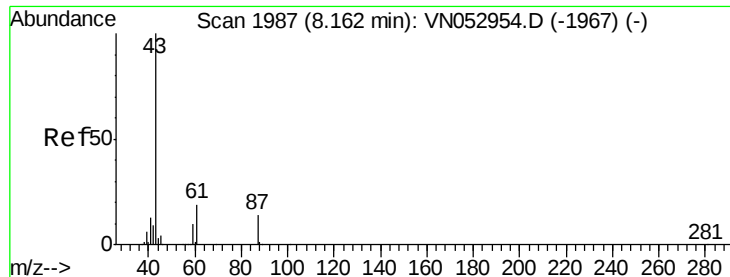
MMDadoda
12/19/2018 12:06:32 PM



#42
1,2-Dichloroethane
Concen: 141.462 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN052956.D
Acq: 18 Dec 2018 12:42

Tgt Ion	Ratio	Lower	Upper
62	100		
98	10.0	0.0	19.0





#43

Isopropyl Acetate

Concen: 125.164 ug/l

RT: 8.16 min Scan# 1987

Delta R.T. -0.00 min

Lab File: VN052956.D

Acq: 18 Dec 2018 12:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 43 Resp: 2559721

Ion Ratio Lower Upper

43 100

61 29.8 22.9 34.3

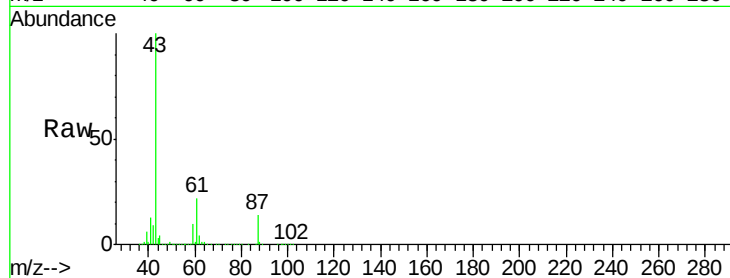
87 14.1 10.6 15.8

Manual Integrations

APPROVED

MMDadoda

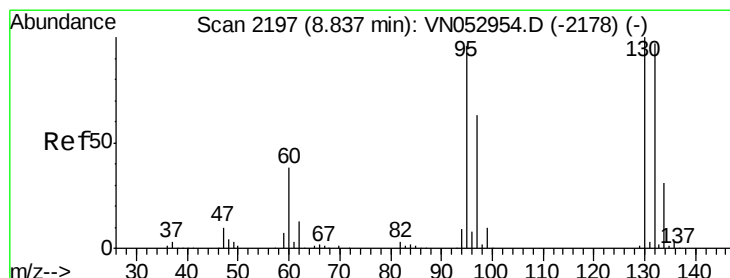
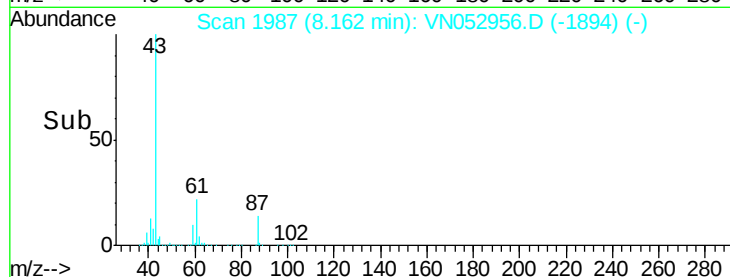
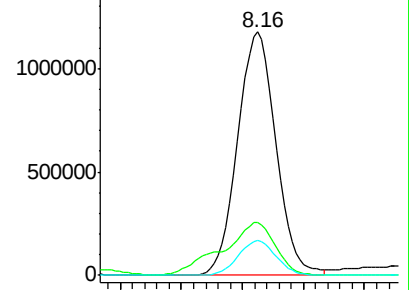
12/19/2018 12:06:32 PM



Abundance Ion 43.00 (42.70 to 43.70): VN052954.D (-1967) (-)

Ion 61.00 (60.70 to 61.70): VN052954.D (-1967) (-)

Ion 87.00 (86.70 to 87.70): VN052954.D (-1967) (-)



#44

Trichloroethene

Concen: 144.834 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VN052956.D

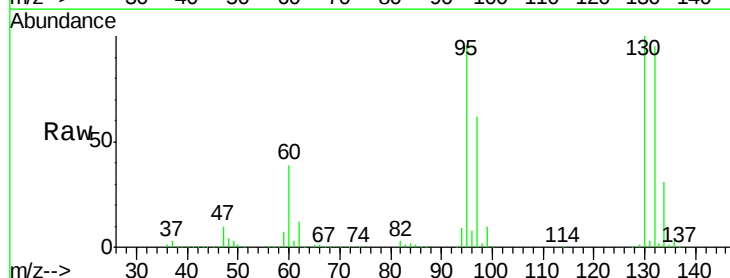
Acq: 18 Dec 2018 12:42

Tgt Ion: 130 Resp: 2009043

Ion Ratio Lower Upper

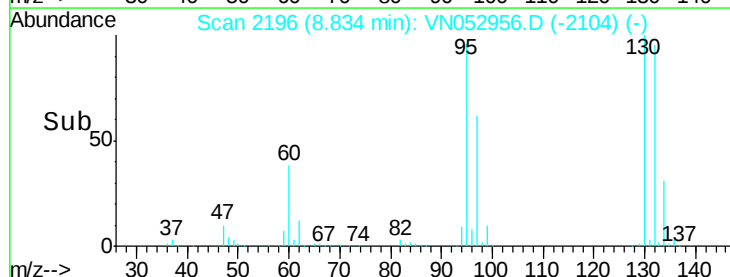
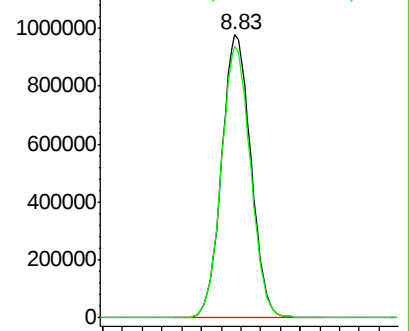
130 100

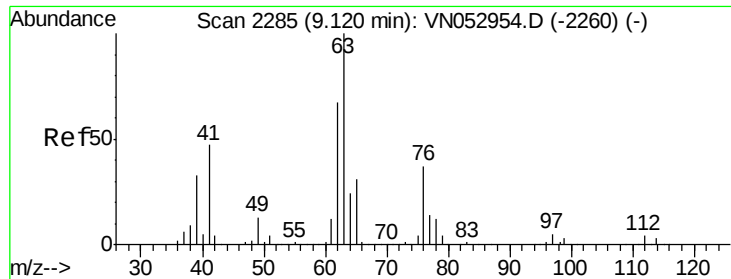
95 95.9 0.0 197.8



Abundance Ion 129.80 (129.50 to 130.50): VN052954.D (-2178) (-)

Ion 94.90 (94.60 to 95.60): VN052954.D (-2178) (-)





#45

1,2-Dichloropropane

Concen: 145.776 ug/l

RT: 9.12 min Scan# 2285

Delta R.T. -0.00 min

Lab File: VN052956.D

Acq: 18 Dec 2018 12:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

Tgt Ion: 63 Resp: 1819065

Ion Ratio Lower Upper

63 100

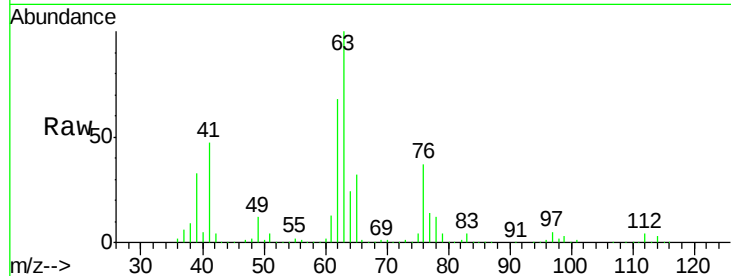
65 31.7 24.6 37.0

Manual Integrations

APPROVED

MMDadoda

12/19/2018 12:06:32 PM



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

1000000

800000

600000

400000

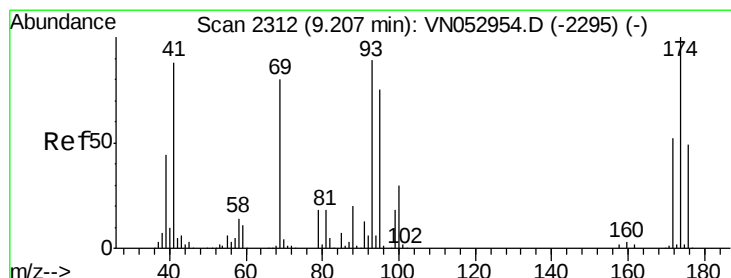
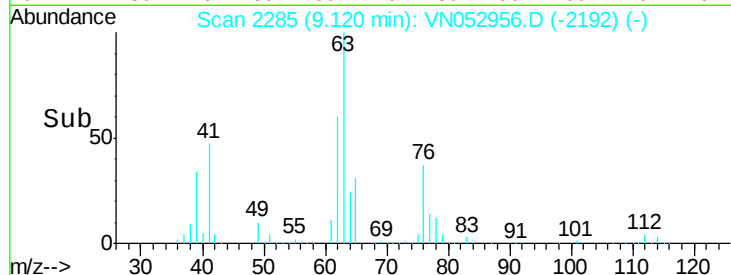
200000

0

9.12

9.10 9.20 9.30

Time-->



#46

Dibromomethane

Concen: 144.766 ug/l

RT: 9.21 min Scan# 2312

Delta R.T. -0.00 min

Lab File: VN052956.D

Acq: 18 Dec 2018 12:42

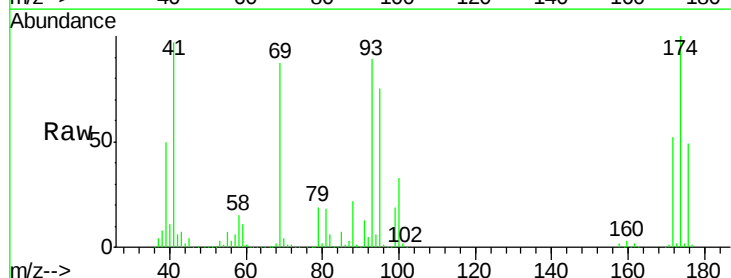
Tgt Ion: 93 Resp: 1053532

Ion Ratio Lower Upper

93 100

95 83.6 67.8 101.6

174 112.9 89.0 133.4



Abundance Ion 92.80 (92.50 to 93.50): VN0

Ion 94.80 (94.50 to 95.50): VN0

Ion 173.70 (173.40 to 174.40): V

800000

600000

400000

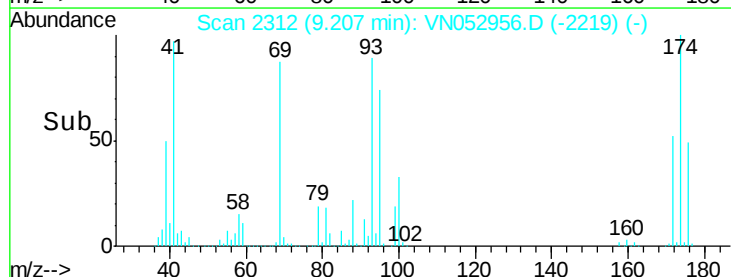
200000

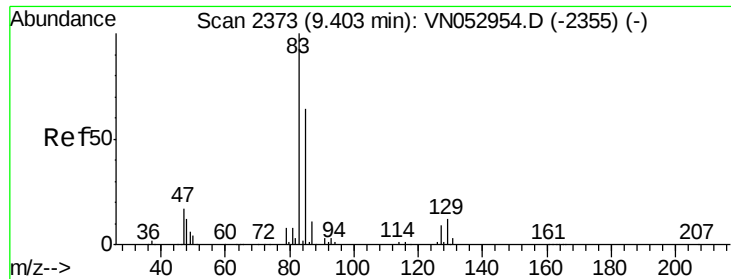
0

9.21

9.10 9.20 9.30

Time-->





#47

Bromodichloromethane

Concen: 147.827 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN052956.D

Acq: 18 Dec 2018 12:42

Instrument :

MSVOA_N

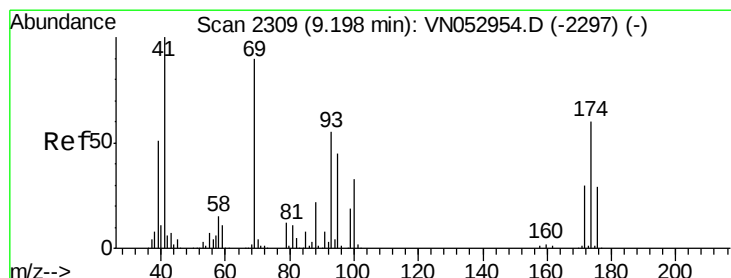
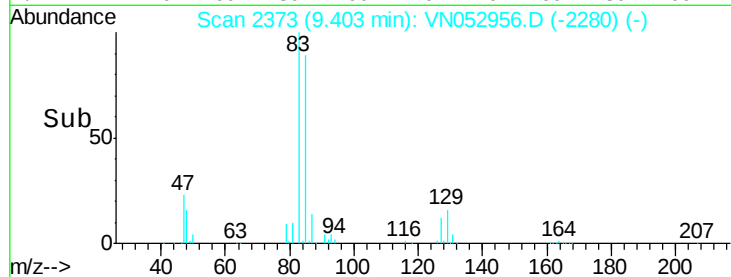
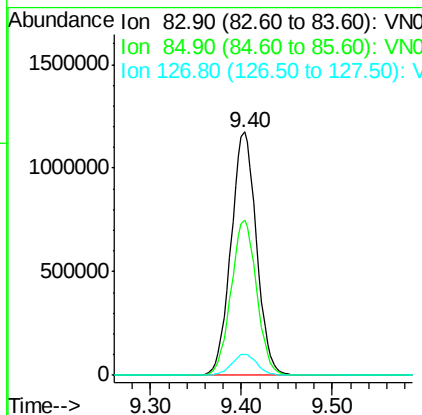
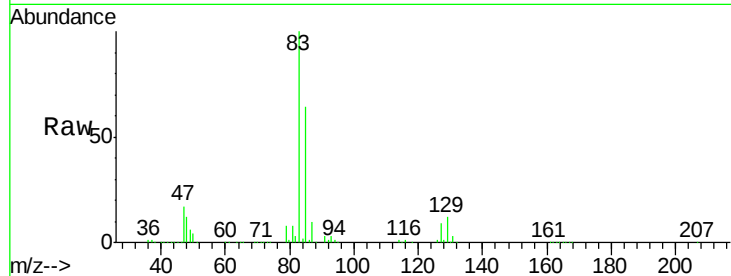
ClientSampleId :

VSTDIC150

Tgt Ion:	83	Resp:	2279016
Ion	Ratio	Lower	Upper
83	100		
85	63.9	51.6	77.4
127	8.8	7.1	10.7

Manual Integrations
APPROVED

MMDadoda
12/19/2018 12:06:32 PM



#48

Methyl methacrylate

Concen: 150.768 ug/l

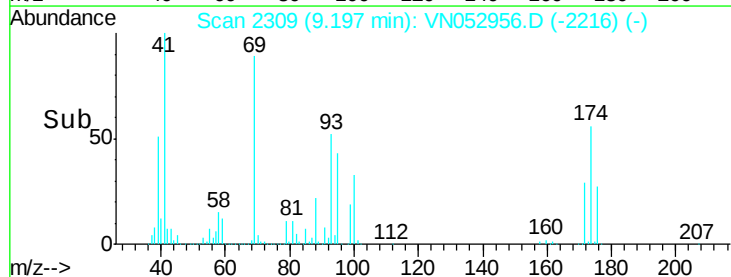
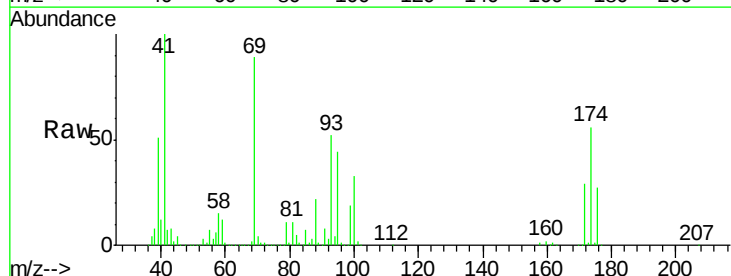
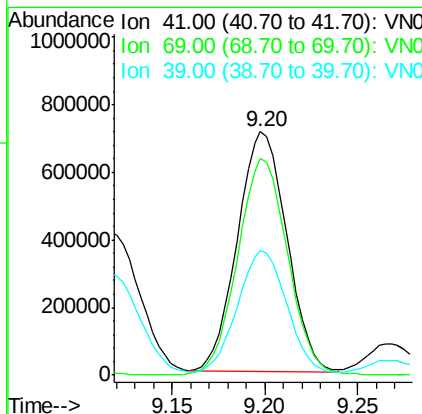
RT: 9.20 min Scan# 2309

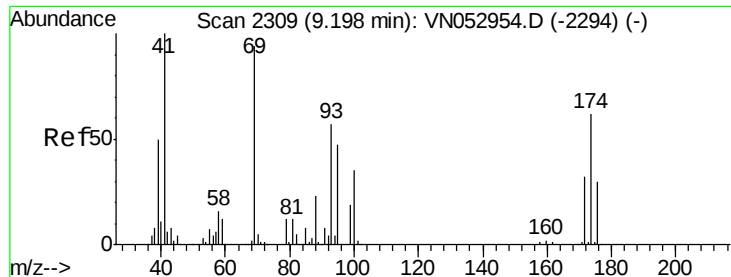
Delta R.T. -0.00 min

Lab File: VN052956.D

Acq: 18 Dec 2018 12:42

Tgt Ion:	41	Resp:	1308139
Ion	Ratio	Lower	Upper
41	100		
69	91.9	72.2	108.2
39	52.7	41.9	62.9





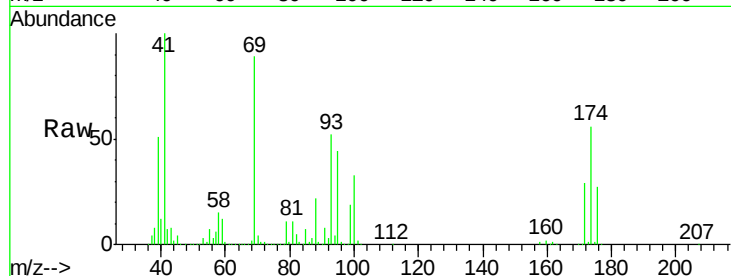
#49
1,4-Dioxane
Concen: 2924.505 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. -0.00 min
Lab File: VN052956.D
Acq: 18 Dec 2018 12:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion	Ratio	Resp	Lower	Upper
88	100	322603		
43	31.5	26.6	40.0	
58	68.1	58.4	87.6	

Manual Integrations
APPROVED

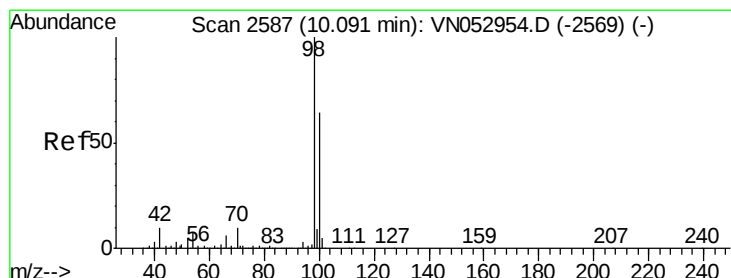
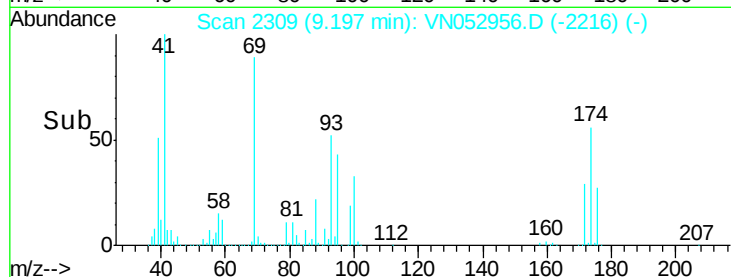
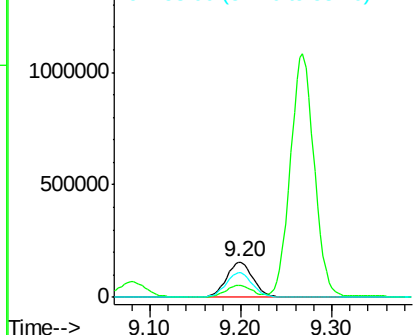
MMDadoda
12/19/2018 12:06:32 PM



Abundance Ion 88.00 (87.70 to 88.70): VN052956.D (-2216) (-)

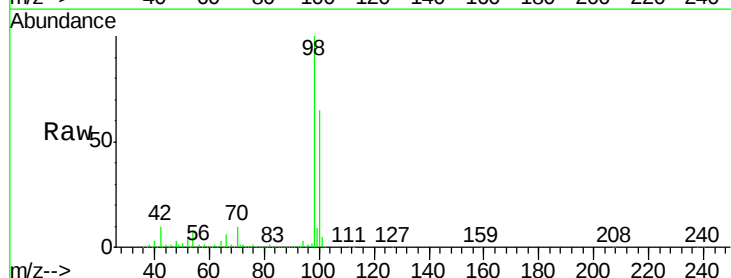
Ion 43.00 (42.70 to 43.70): VN052956.D (-2216) (-)

Ion 58.00 (57.70 to 58.70): VN052956.D (-2216) (-)



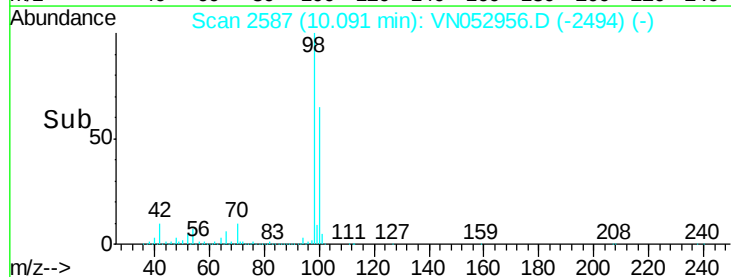
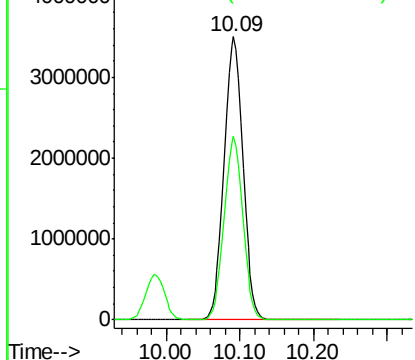
#50
Toluene-d8
Concen: 2924.505 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN052956.D
Acq: 18 Dec 2018 12:42

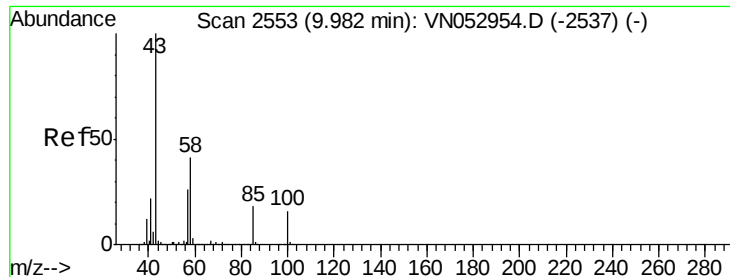
Tgt Ion	Ratio	Resp	Lower	Upper
98	100	6266117		
100	64.4	51.6	77.4	



Abundance Ion 98.00 (97.70 to 98.70): VN052956.D (-2494) (-)

Ion 100.00 (99.70 to 100.70): VN052956.D (-2494) (-)





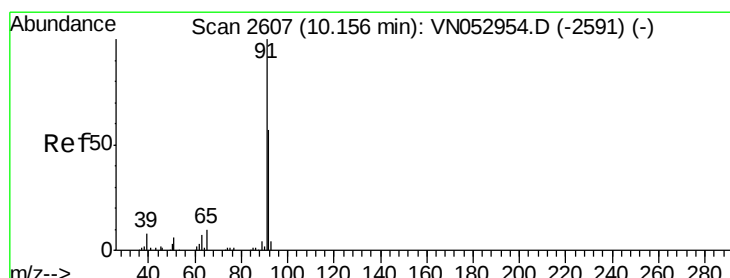
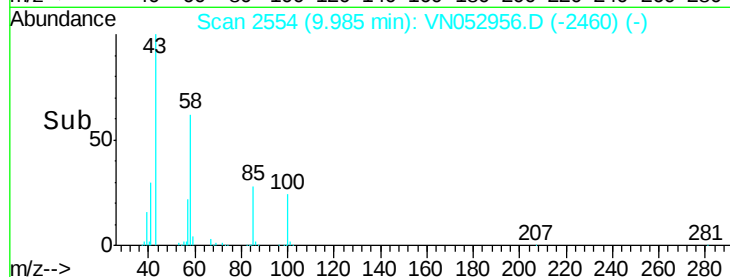
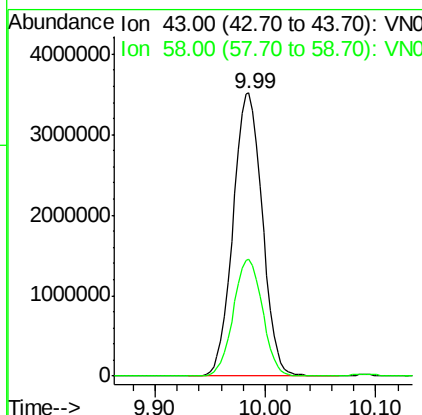
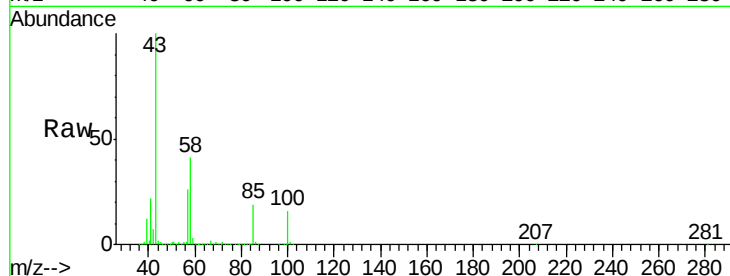
#51
4-Methyl-2-Pentanone
Concen: 744.009 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN052956.D
Acq: 18 Dec 2018 12:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion: 43 Resp: 6456526
Ion Ratio Lower Upper
43 100
58 41.2 32.2 48.4

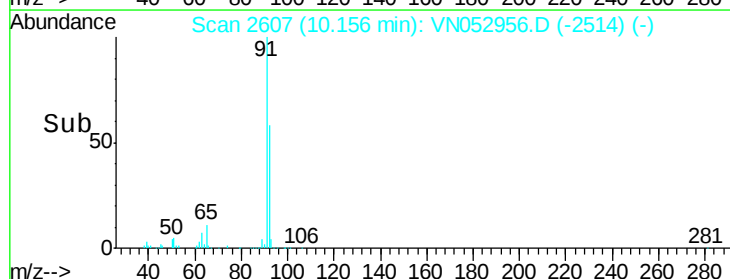
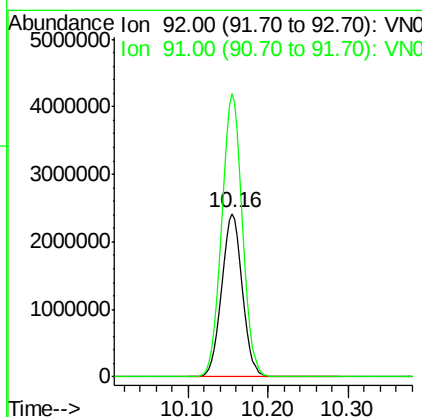
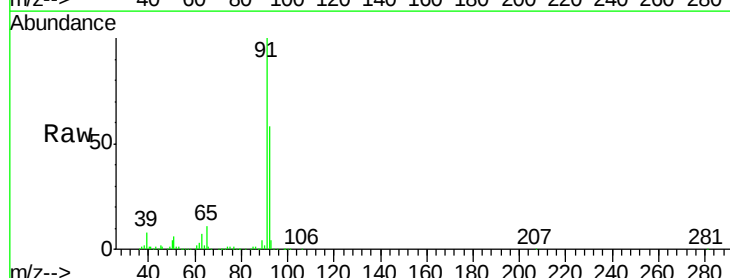
Manual Integrations
APPROVED

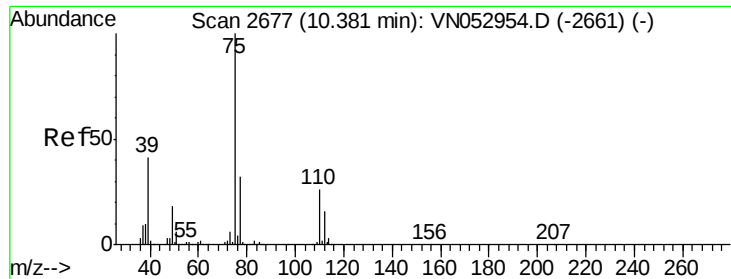
MMDadoda
12/19/2018 12:06:32 PM



#52
Toluene
Concen: 145.658 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. -0.00 min
Lab File: VN052956.D
Acq: 18 Dec 2018 12:42

Tgt Ion: 92 Resp: 4325794
Ion Ratio Lower Upper
92 100
91 173.5 139.8 209.6





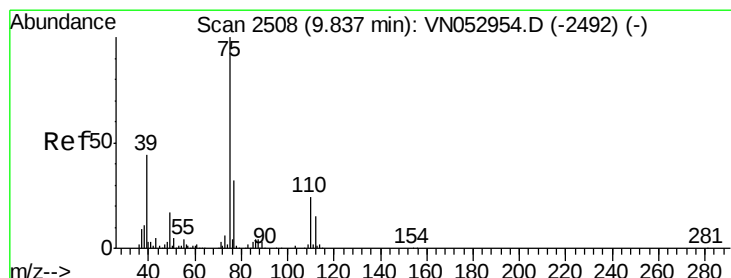
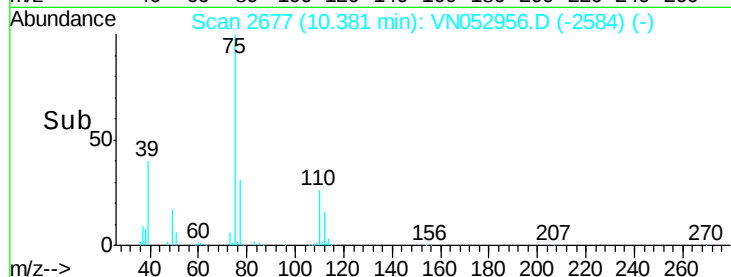
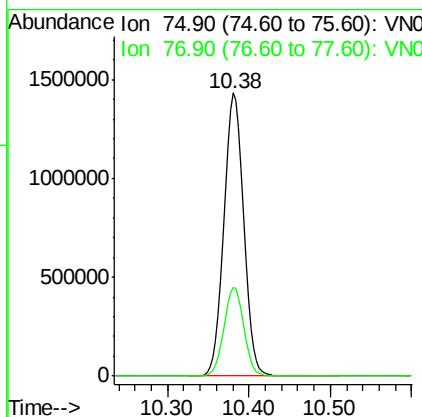
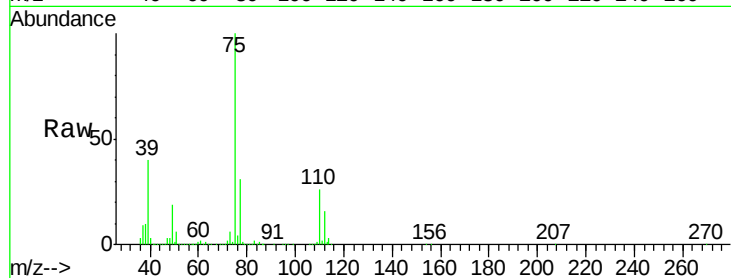
#53
t-1,3-Dichloropropene
Concen: 153.705 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. -0.00 min
Lab File: VN052956.D
Acq: 18 Dec 2018 12:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion: 75 Resp: 2475565
Ion Ratio Lower Upper
75 100
77 31.3 25.6 38.4

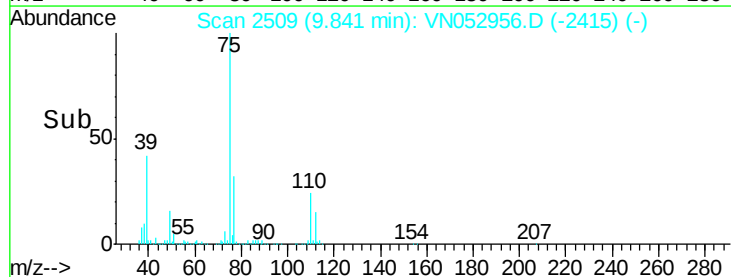
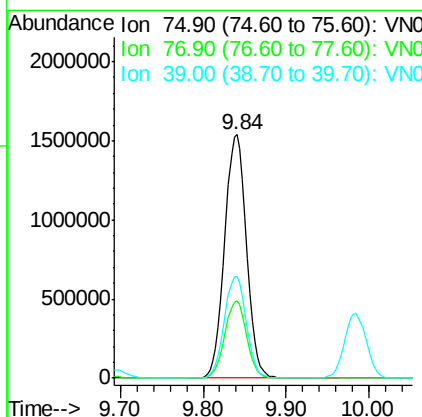
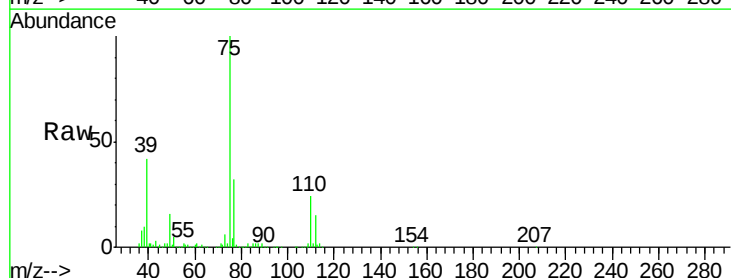
Manual Integrations
APPROVED

MMDadoda
12/19/2018 12:06:32 PM



#54
cis-1,3-Dichloropropene
Concen: 151.647 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VN052956.D
Acq: 18 Dec 2018 12:42

Tgt Ion: 75 Resp: 2809889
Ion Ratio Lower Upper
75 100
77 31.7 25.8 38.8
39 41.7 34.8 52.2





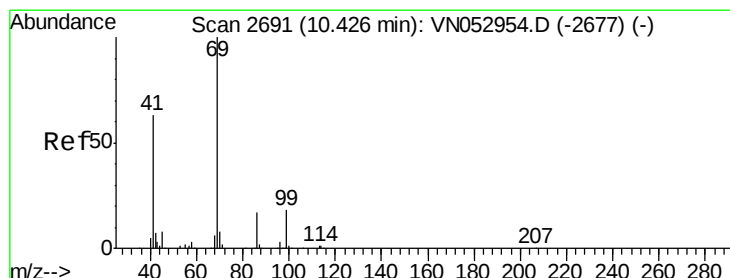
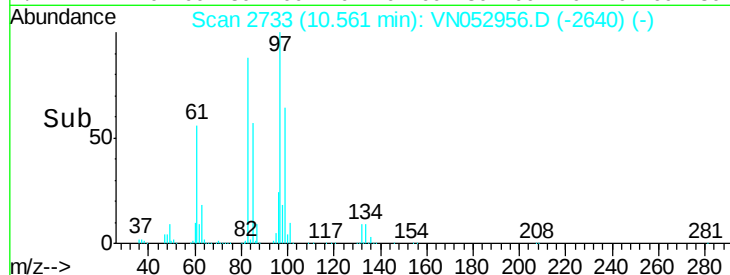
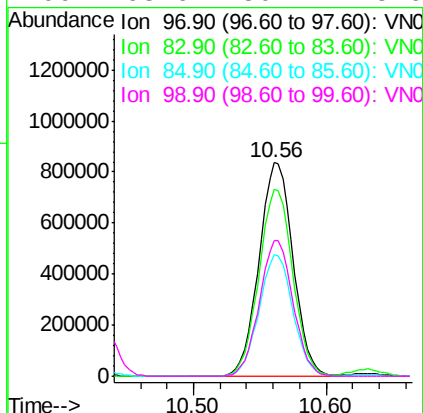
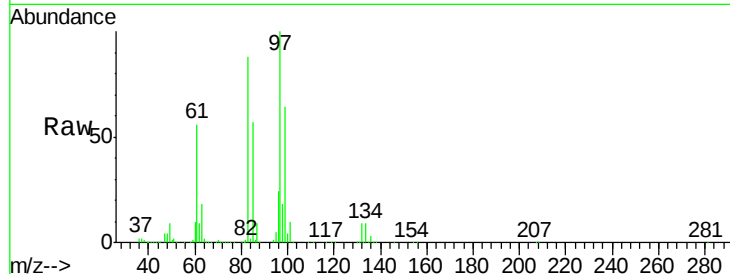
#55
 1,1,2-Trichloroethane
 Concen: 145.037 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. -0.00 min
 Lab File: VN052956.D
 Acq: 18 Dec 2018 12:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tgt Ion: 97 Resp: 1503745
 Ion Ratio Lower Upper
 97 100
 83 87.6 70.9 106.3
 85 57.0 45.4 68.2
 99 63.6 50.4 75.6

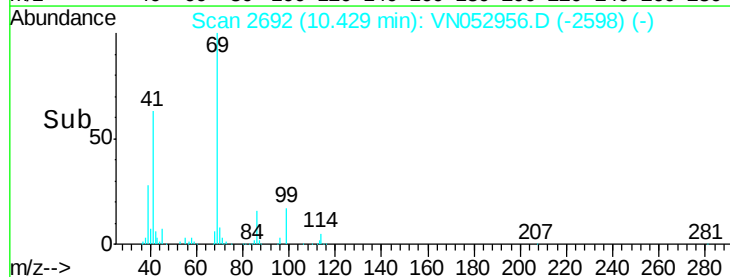
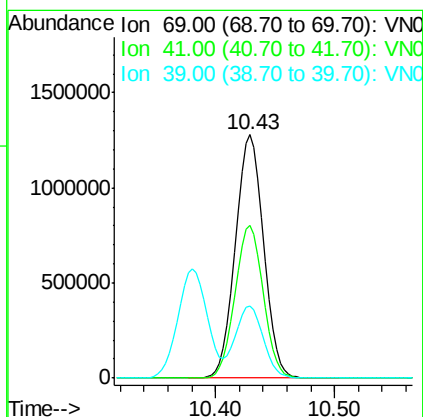
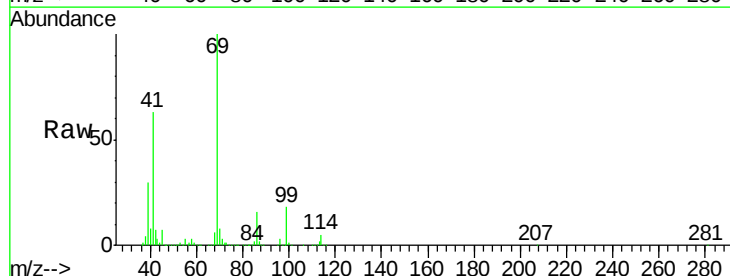
Manual Integrations
 APPROVED

MMDadoda
 12/19/2018 12:06:32 PM



#56
 Ethyl methacrylate
 Concen: 154.743 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN052956.D
 Acq: 18 Dec 2018 12:42

Tgt Ion: 69 Resp: 2100762
 Ion Ratio Lower Upper
 69 100
 41 62.5 51.7 77.5
 39 29.4 24.6 37.0





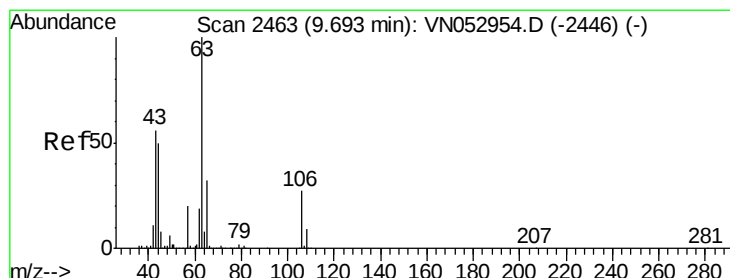
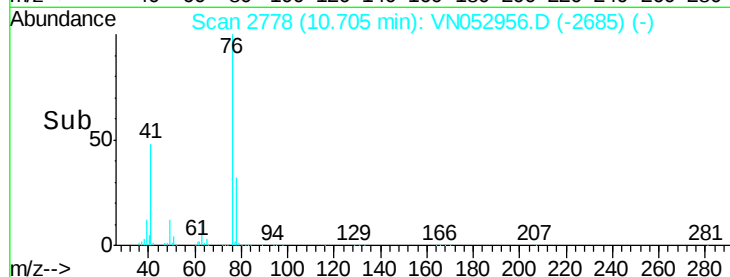
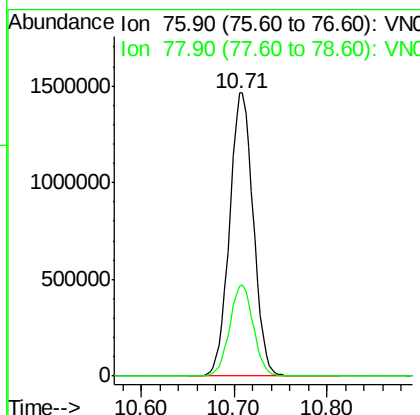
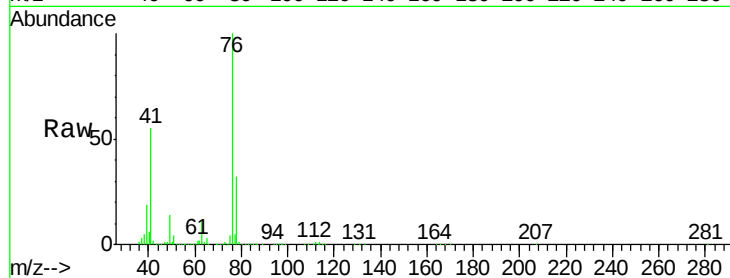
#57
 1,3-Dichloropropane
 Concen: 146.111 ug/l
 RT: 10.71 min Scan# 2778
 Delta R.T. -0.00 min
 Lab File: VN052956.D
 Acq: 18 Dec 2018 12:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tgt Ion: 76 Resp: 2594629
 Ion Ratio Lower Upper
 76 100
 78 32.1 25.8 38.8

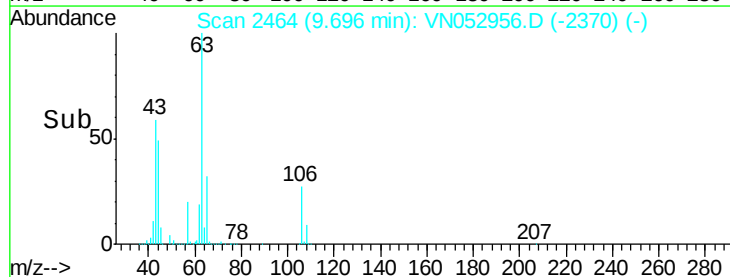
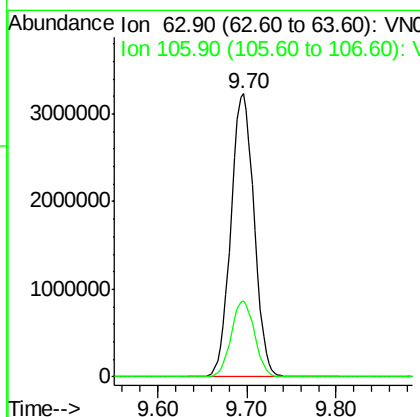
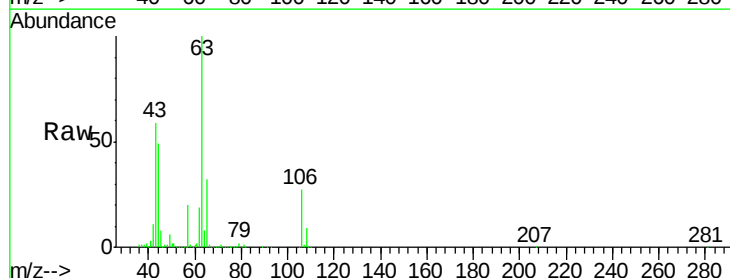
Manual Integrations
 APPROVED

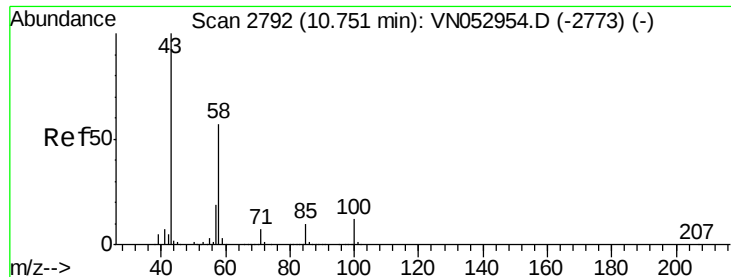
MMDadoda
 12/19/2018 12:06:32 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 781.583 ug/l
 RT: 9.70 min Scan# 2464
 Delta R.T. 0.00 min
 Lab File: VN052956.D
 Acq: 18 Dec 2018 12:42

Tgt Ion: 63 Resp: 5815085
 Ion Ratio Lower Upper
 63 100
 106 27.0 21.0 31.6





#59

2-Hexanone

Concen: 743.921 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. -0.00 min

Lab File: VN052956.D

Acq: 18 Dec 2018 12:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 43 Resp: 4367936

Ion Ratio Lower Upper

43 100

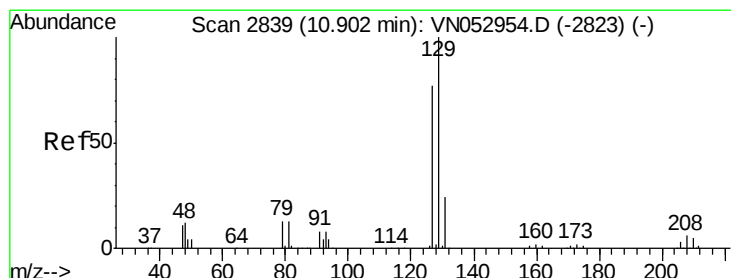
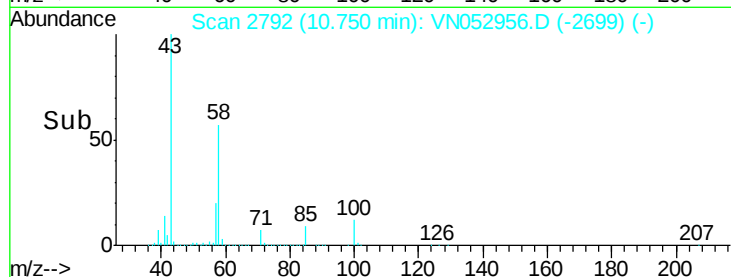
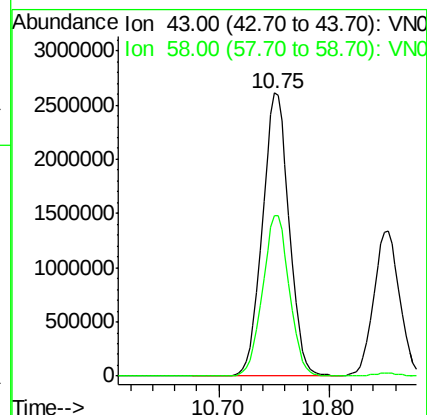
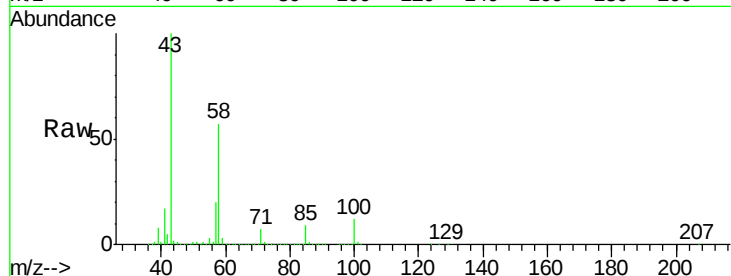
58 57.1 28.1 84.3

Manual Integrations

APPROVED

MMDadoda

12/19/2018 12:06:32 PM



#60

Dibromochloromethane

Concen: 149.148 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. -0.00 min

Lab File: VN052956.D

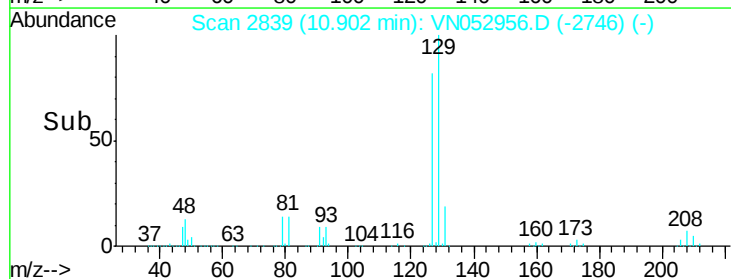
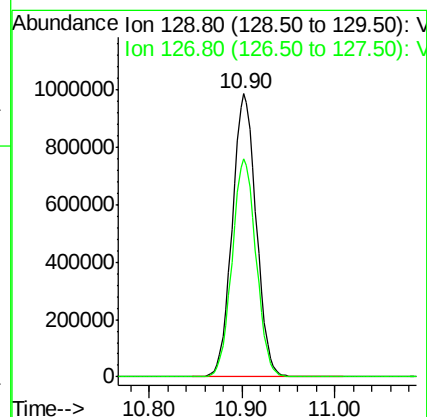
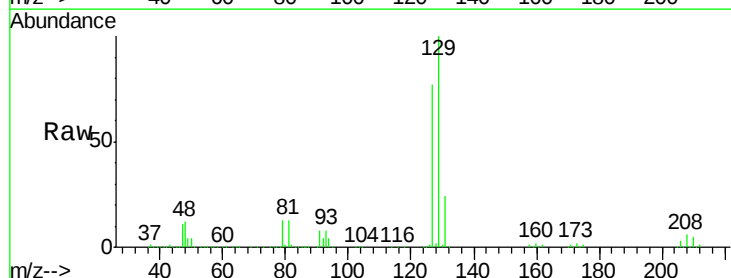
Acq: 18 Dec 2018 12:42

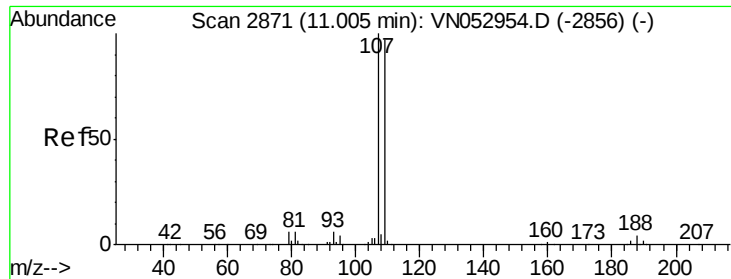
Tgt Ion: 129 Resp: 1761991

Ion Ratio Lower Upper

129 100

127 77.2 38.6 116.0





#61

1,2-Dibromoethane

Concen: 149.580 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN052956.D

Acq: 18 Dec 2018 12:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 107 Resp: 1567099

Ion Ratio Lower Upper

107 100

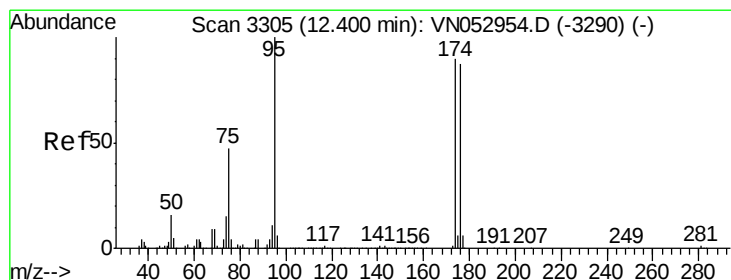
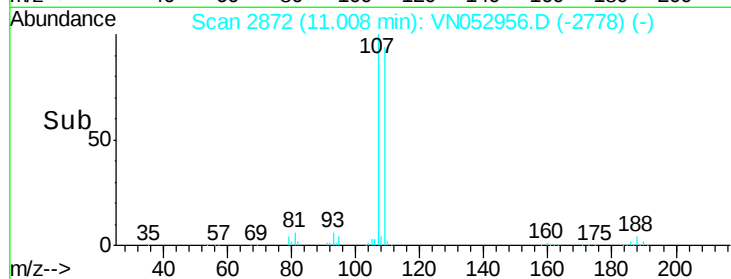
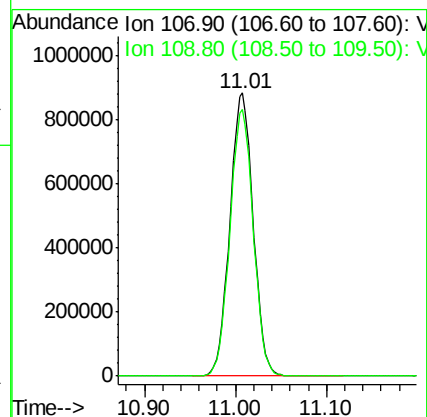
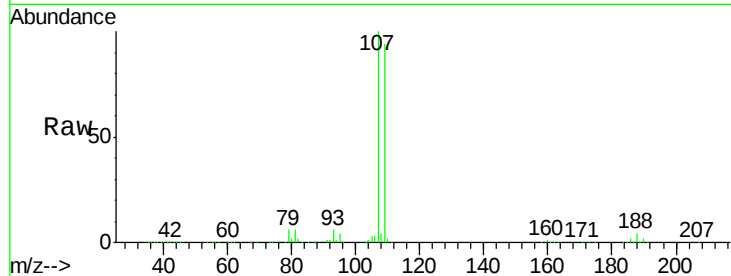
109 94.6 75.4 113.0

Manual Integrations

APPROVED

MMDadoda

12/19/2018 12:06:32 PM



#62

4-Bromofluorobenzene

Concen: 149.580 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN052956.D

Acq: 18 Dec 2018 12:42

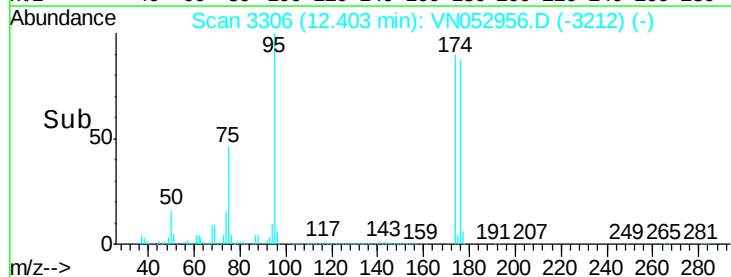
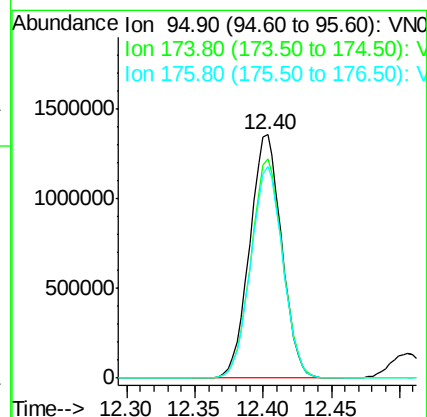
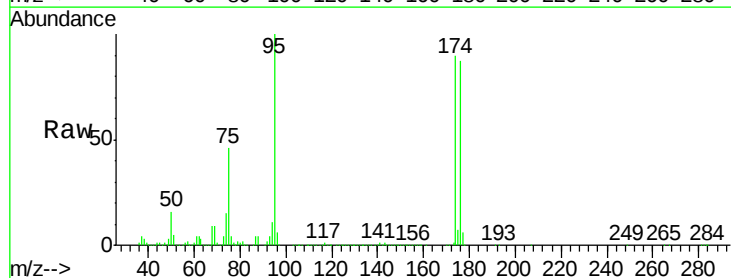
Tgt Ion: 95 Resp: 2207280

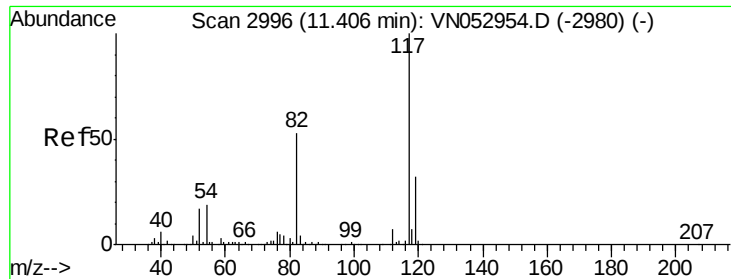
Ion Ratio Lower Upper

95 100

174 89.8 0.0 178.8

176 87.3 0.0 173.8





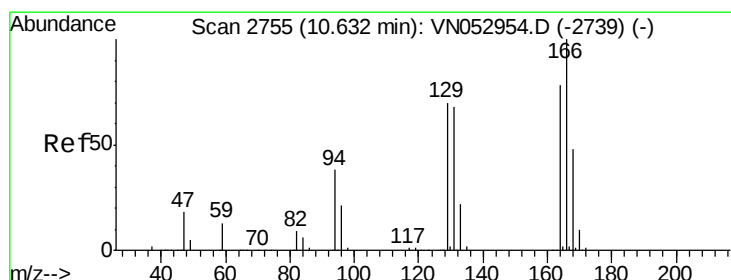
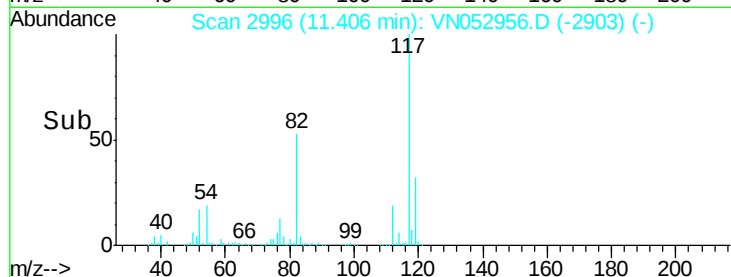
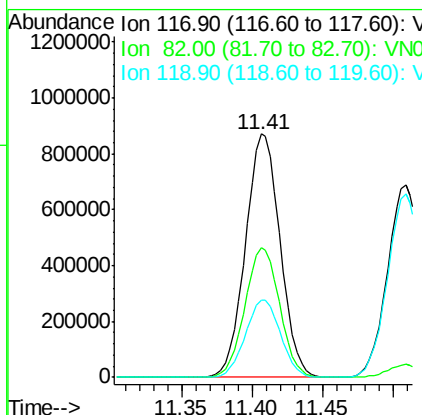
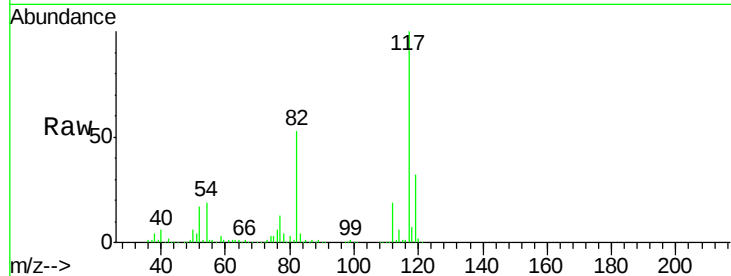
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052956.D
Acq: 18 Dec 2018 12:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion:117 Resp: 1499537
Ion Ratio Lower Upper
117 100
82 53.2 42.8 64.2
119 31.9 25.5 38.3

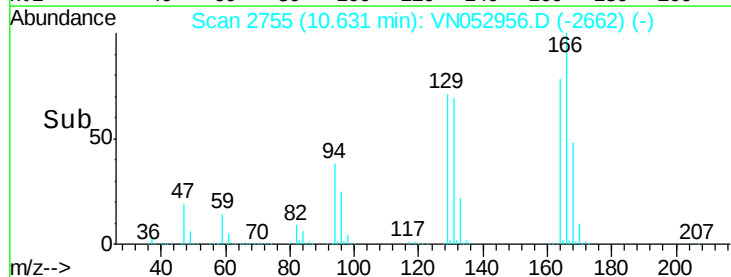
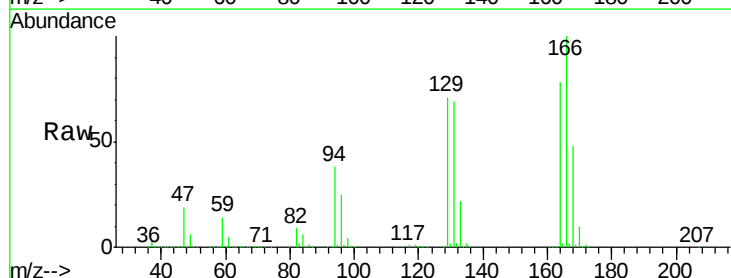
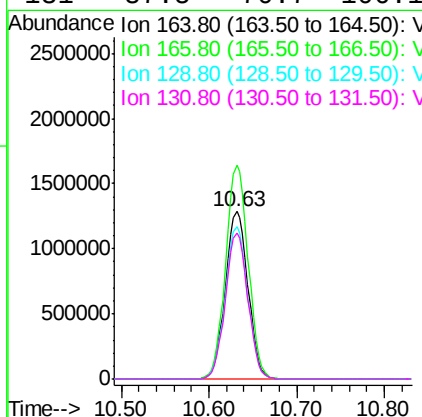
Manual Integrations
APPROVED

MMDadoda
12/19/2018 12:06:32 PM



#64
Tetrachloroethene
Concen: 140.371 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN052956.D
Acq: 18 Dec 2018 12:42

Tgt Ion:164 Resp: 2304754
Ion Ratio Lower Upper
164 100
166 127.8 102.9 154.3
129 91.0 73.7 110.5
131 87.5 70.7 106.1





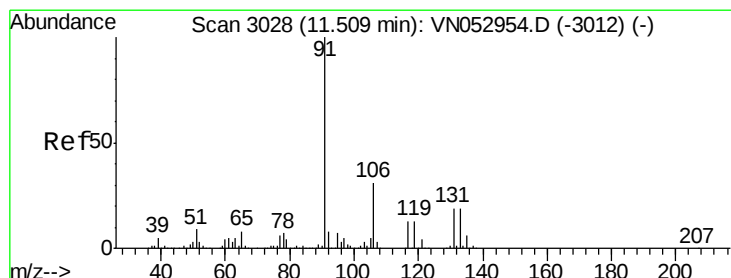
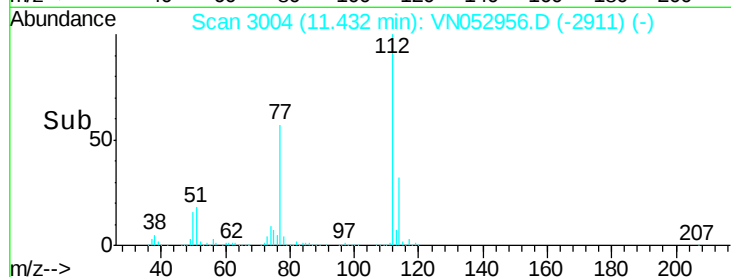
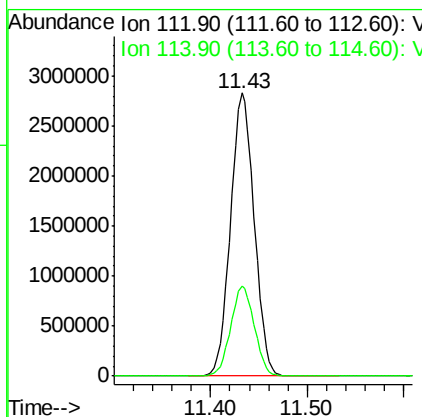
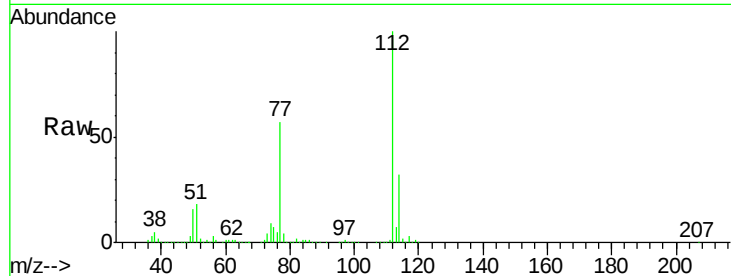
#65
Chlorobenzene
Concen: 143.337 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN052956.D
Acq: 18 Dec 2018 12:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion:112 Resp: 4800142
Ion Ratio Lower Upper
112 100
114 31.8 25.5 38.3

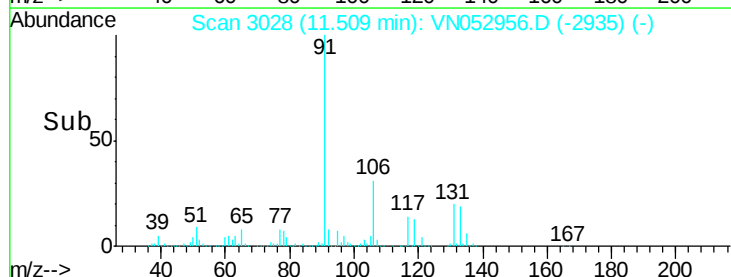
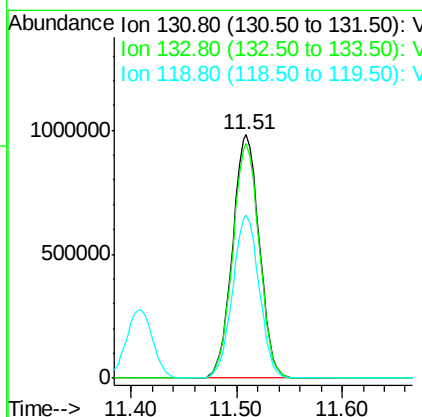
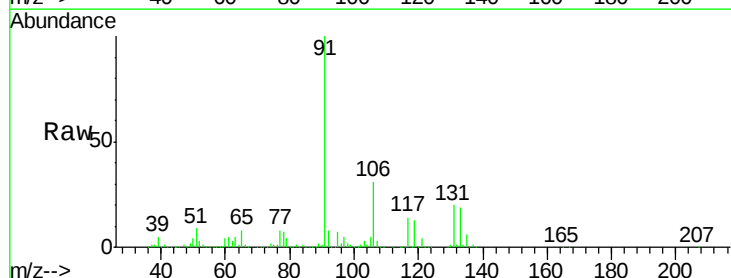
Manual Integrations
APPROVED

MMDadoda
12/19/2018 12:06:32 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 148.223 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN052956.D
Acq: 18 Dec 2018 12:42

Tgt Ion:131 Resp: 1716737
Ion Ratio Lower Upper
131 100
133 96.0 47.6 142.9
119 66.6 33.3 99.8





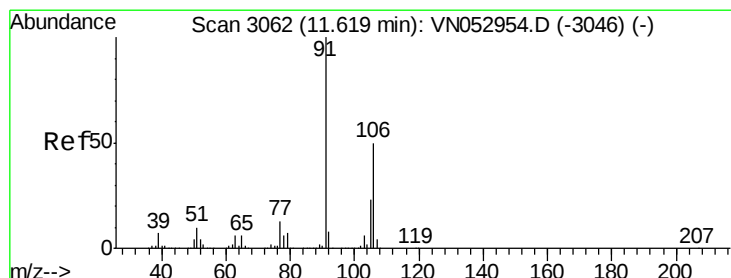
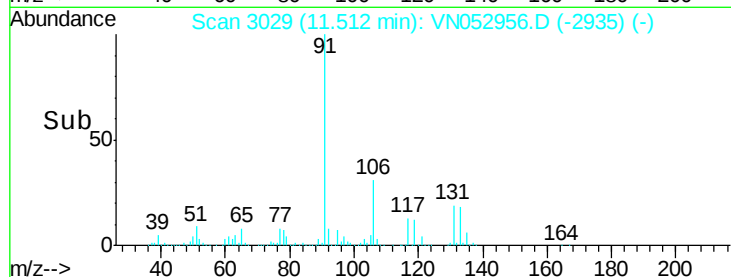
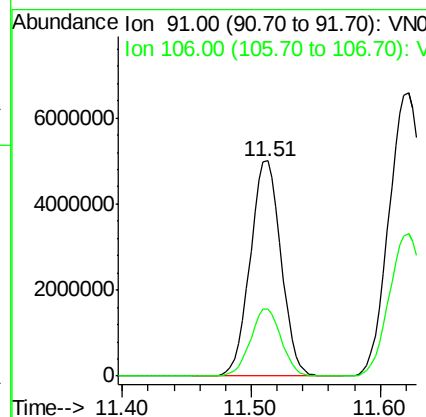
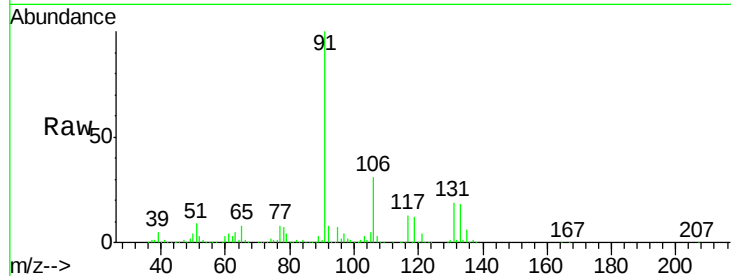
#67
Ethyl Benzene
Concen: 145.044 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN052956.D
Acq: 18 Dec 2018 12:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion: 91 Resp: 8337345
Ion Ratio Lower Upper
91 100
106 31.2 24.9 37.3

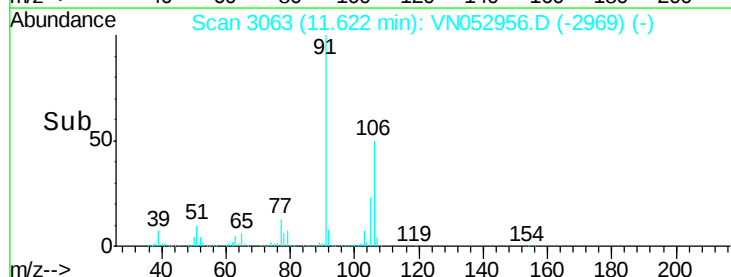
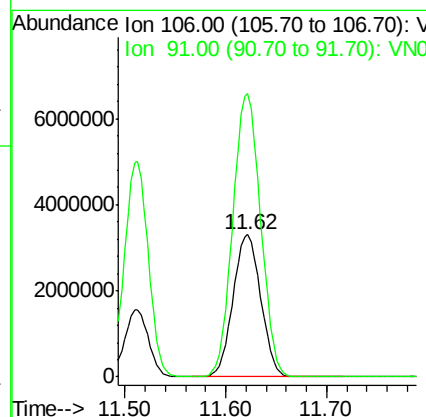
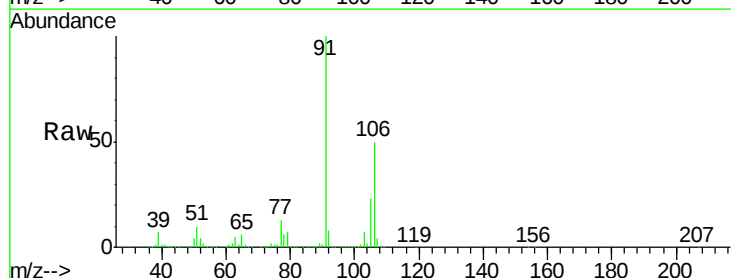
Manual Integrations
APPROVED

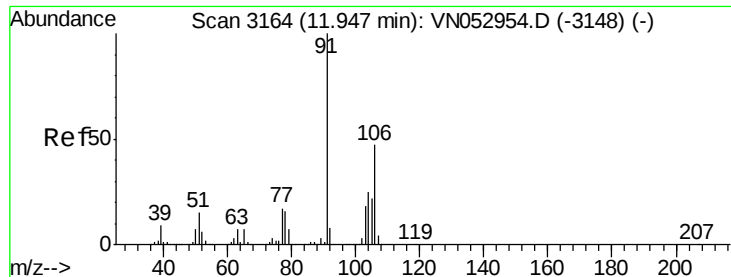
MMDadoda
12/19/2018 12:06:32 PM



#68
m/p-Xylenes
Concen: 288.994 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN052956.D
Acq: 18 Dec 2018 12:42

Tgt Ion: 106 Resp: 6318955
Ion Ratio Lower Upper
106 100
91 200.0 162.2 243.4





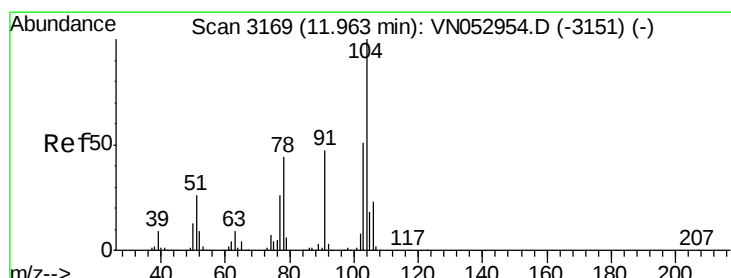
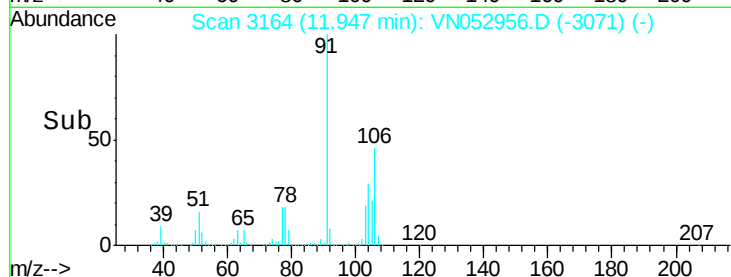
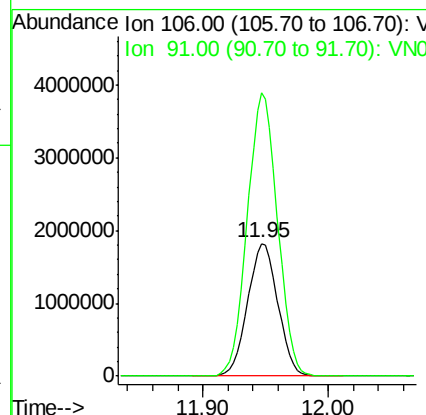
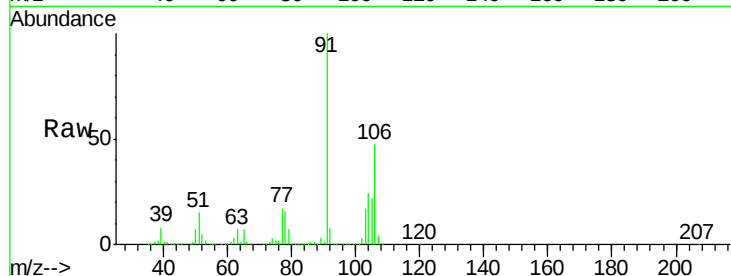
#69
o-Xylene
Concen: 145.510 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN052956.D
Acq: 18 Dec 2018 12:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion:106 Resp: 3049579
Ion Ratio Lower Upper
106 100
91 212.9 106.6 319.8

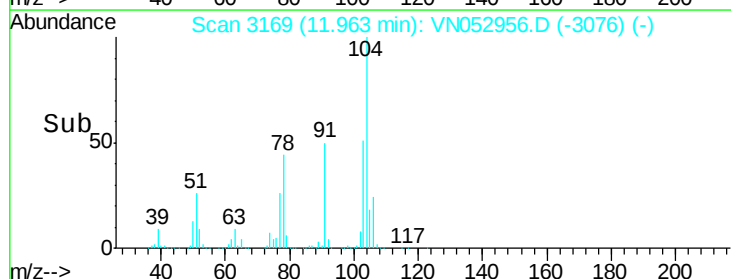
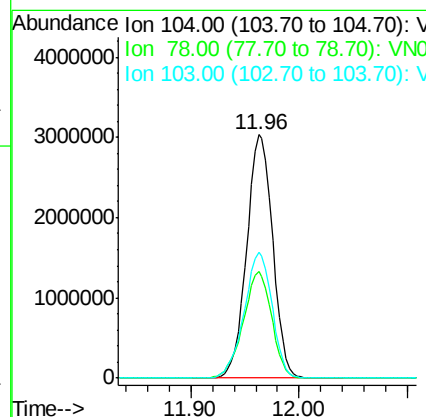
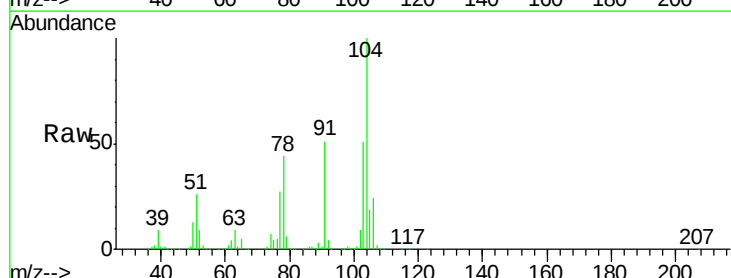
Manual Integrations
APPROVED

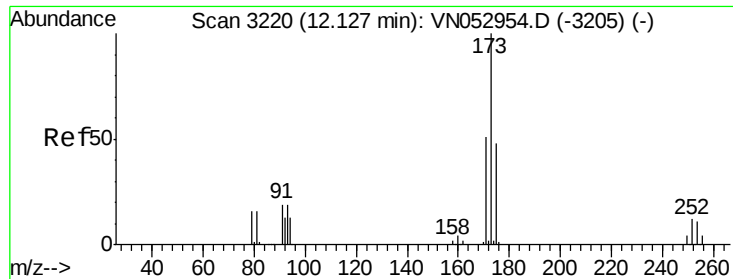
MMDadoda
12/19/2018 12:06:32 PM



#70
Styrene
Concen: 149.518 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN052956.D
Acq: 18 Dec 2018 12:42

Tgt Ion:104 Resp: 5086867
Ion Ratio Lower Upper
104 100
78 47.8 38.9 58.3
103 55.4 44.3 66.5





#71

Bromoform

Concen: 150.616 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. -0.00 min

Lab File: VN052956.D

Acq: 18 Dec 2018 12:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion:173 Resp: 1256875

Ion Ratio Lower Upper

173 100

175 48.3 24.3 72.9

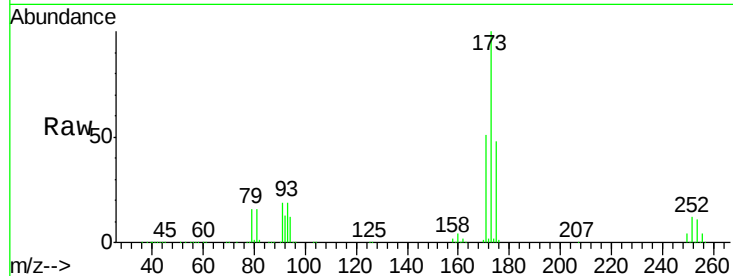
254 0.2 0.1 0.1#

Manual Integrations

APPROVED

MMDadoda

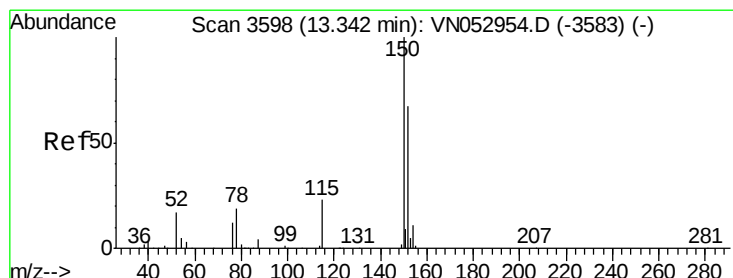
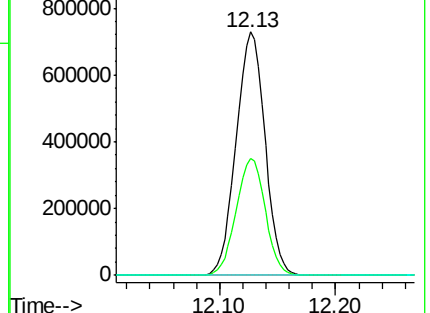
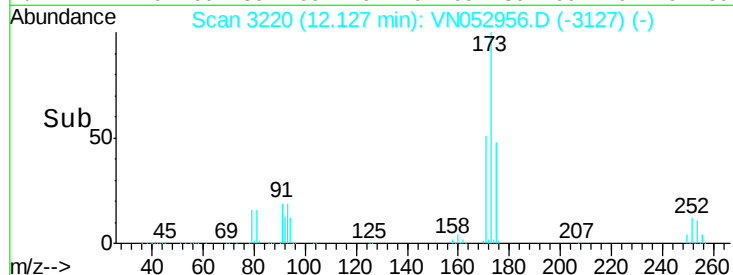
12/19/2018 12:06:32 PM



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN052956.D

Acq: 18 Dec 2018 12:42

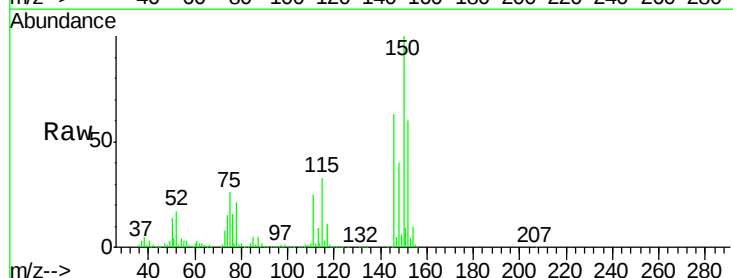
Tgt Ion:152 Resp: 741124

Ion Ratio Lower Upper

152 100

115 55.9 28.3 85.0

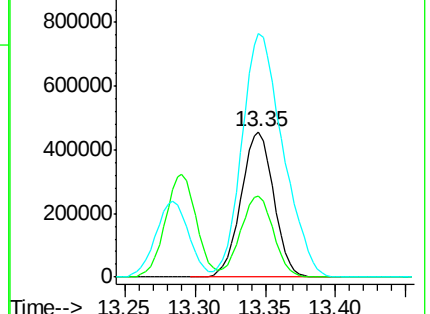
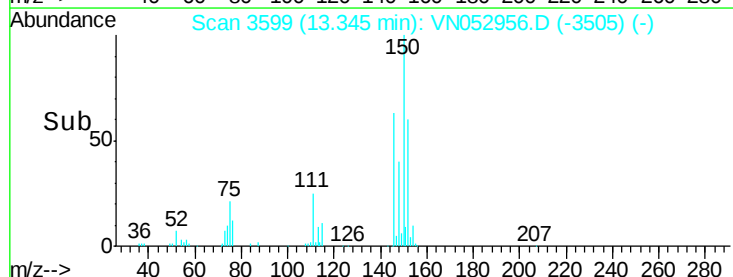
150 209.4 0.0 347.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 137.261 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN052956.D

Acq: 18 Dec 2018 12:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 105 Resp: 8073573

Ion Ratio Lower Upper

105 100

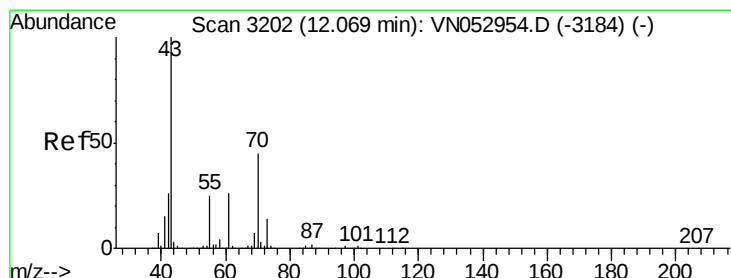
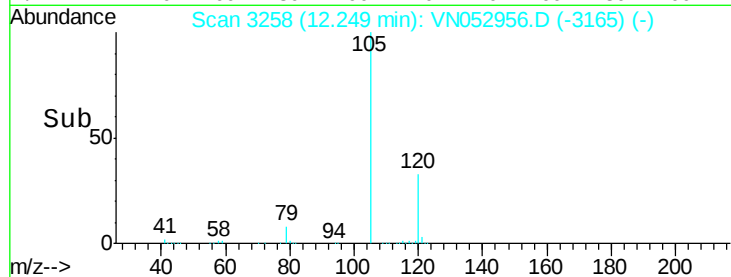
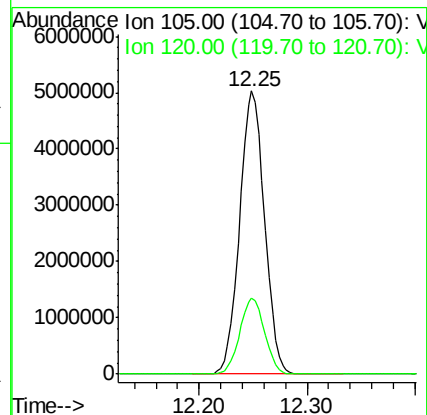
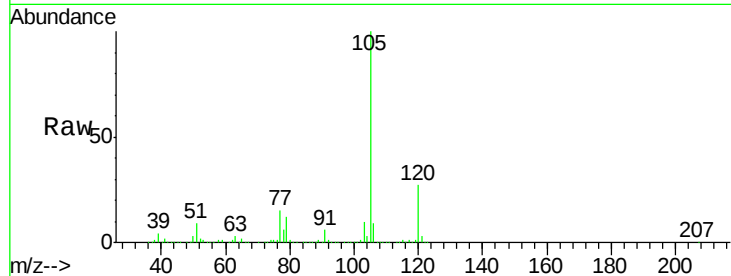
120 26.9 13.3 39.9

Manual Integrations

APPROVED

MMDadoda

12/19/2018 12:06:32 PM



#74

N-ethyl acetate

Concen: 146.380 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN052956.D

Acq: 18 Dec 2018 12:42

Tgt Ion: 43 Resp: 2366109

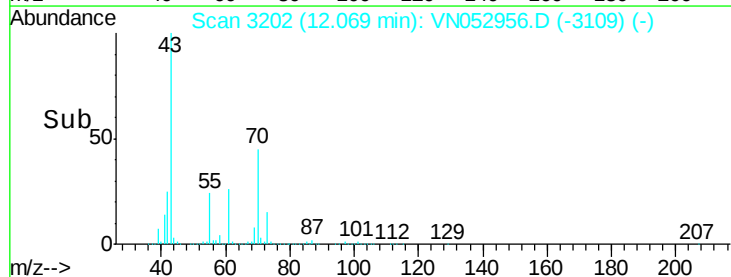
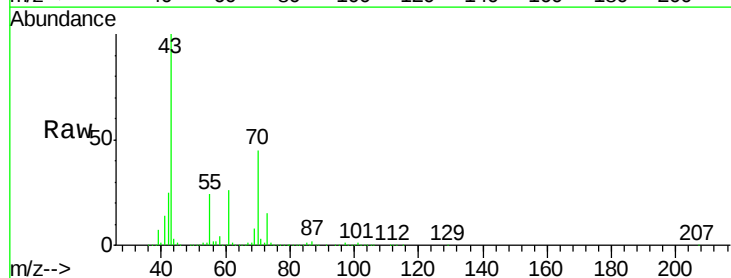
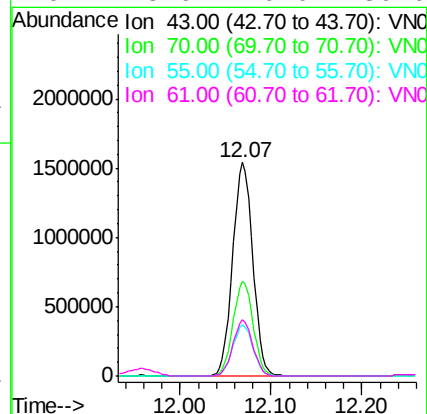
Ion Ratio Lower Upper

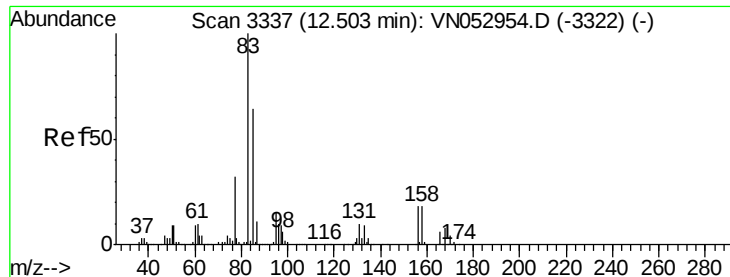
43 100

70 44.4 34.2 51.4

55 24.2 20.3 30.5

61 25.9 20.0 30.0





#75

1,1,2,2-Tetrachloroethane

Concen: 135.174 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN052956.D

Acq: 18 Dec 2018 12:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 83 Resp: 1563502

Ion Ratio Lower Upper

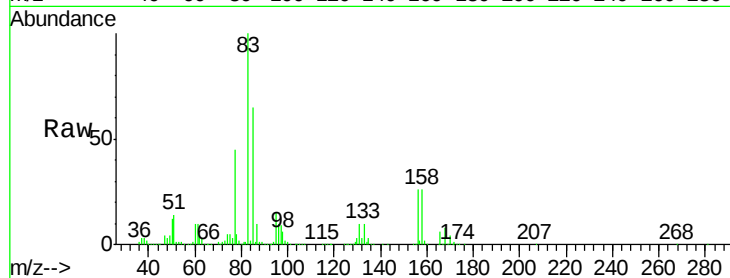
83 100

131 10.4 5.2 15.6

85 64.7 32.4 97.0

Manual Integrations
APPROVED

MMDadoda
12/19/2018 12:06:32 PM



Abundance Ion 82.90 (82.60 to 83.60): VN052954.D (-3322) (-)

Ion 130.80 (130.50 to 131.50): VN052954.D (-3322) (-)

Ion 84.90 (84.60 to 85.60): VN052954.D (-3322) (-)

1200000

1000000

800000

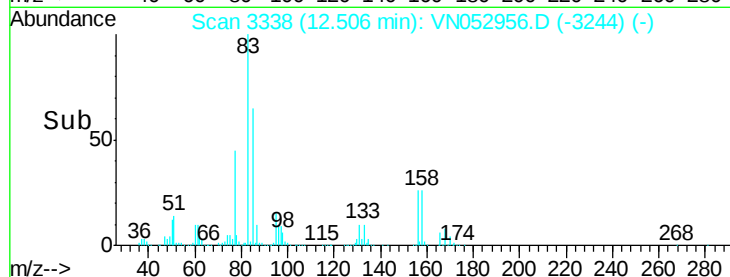
600000

400000

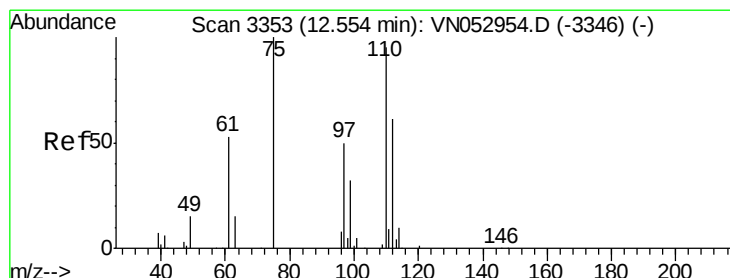
200000

0

Time-->



12.51



#76

1,2,3-Trichloropropane

Concen: 148.262 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. -0.00 min

Lab File: VN052956.D

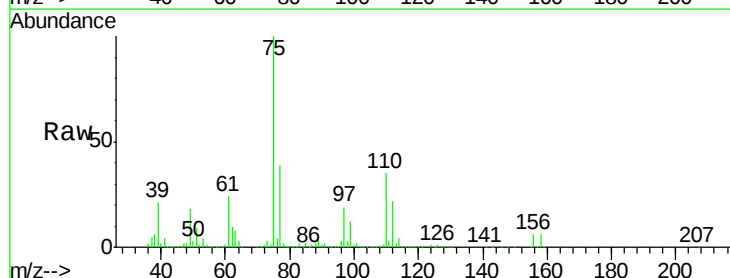
Acq: 18 Dec 2018 12:42

Tgt Ion: 75 Resp: 1853300

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN052954.D (-3346) (-)

Ion 77.00 (76.70 to 77.70): VN052954.D (-3346) (-)

2000000

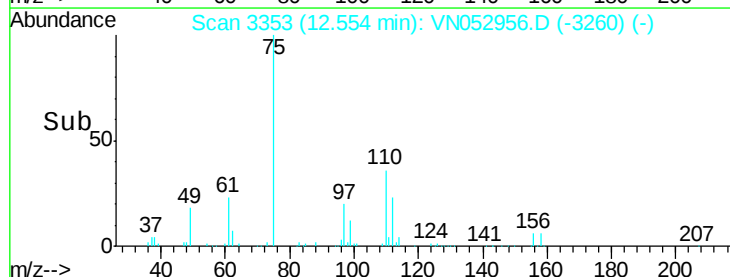
1500000

1000000

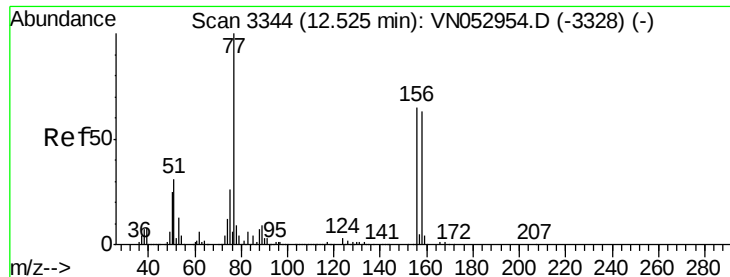
500000

0

Time-->



12.55



#77

Bromobenzene

Concen: 137.235 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN052956.D

Acq: 18 Dec 2018 12:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion:156 Resp: 2098321

Ion Ratio Lower Upper

156 100

77 181.3 91.3 273.8

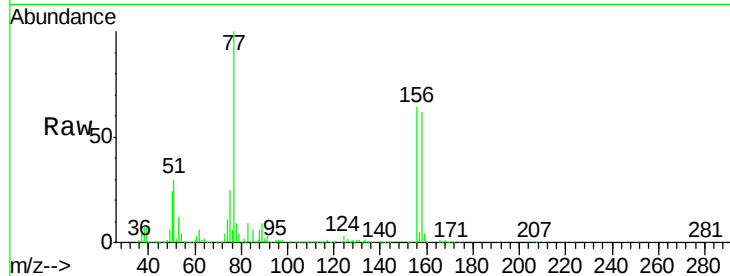
158 98.0 49.0 147.2

Manual Integrations

APPROVED

MMDadoda

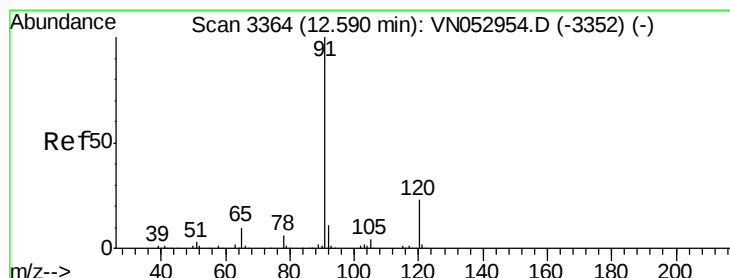
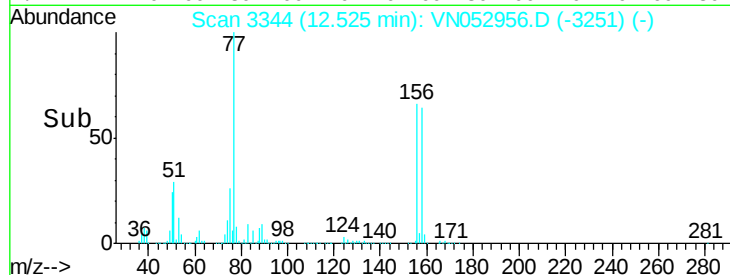
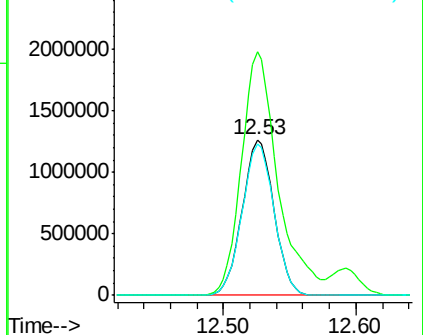
12/19/2018 12:06:32 PM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 139.756 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN052956.D

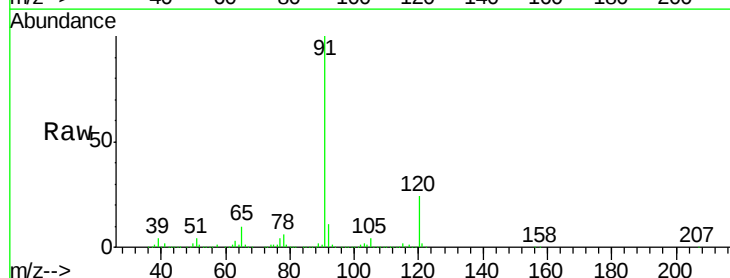
Acq: 18 Dec 2018 12:42

Tgt Ion: 91 Resp: 9335966

Ion Ratio Lower Upper

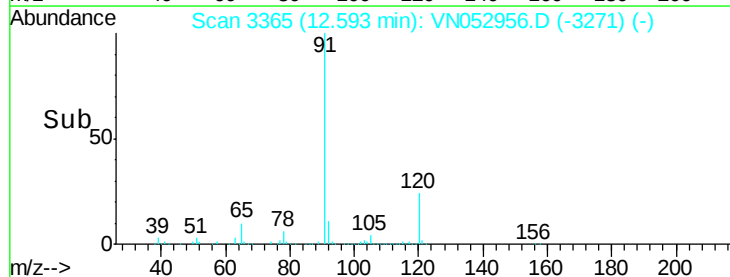
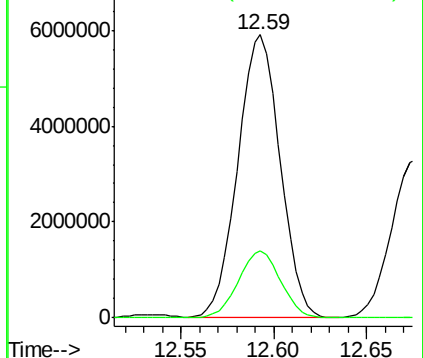
91 100

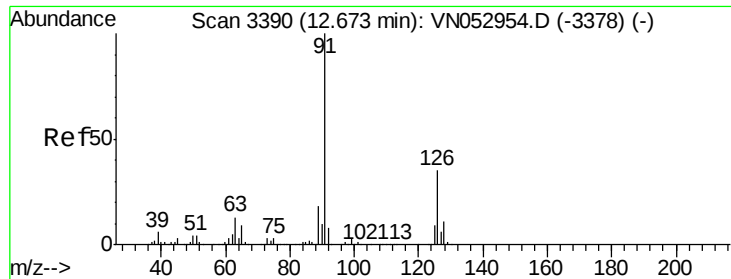
120 23.6 11.5 34.5



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





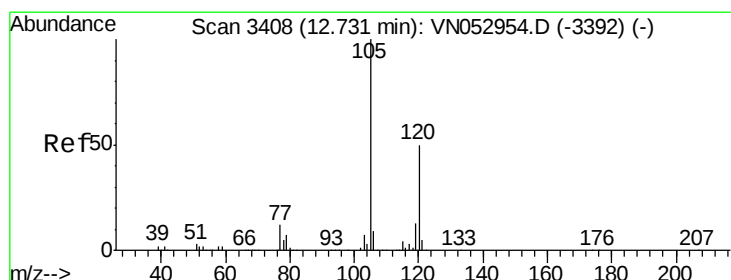
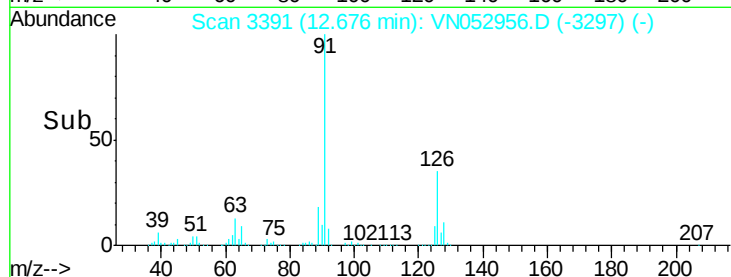
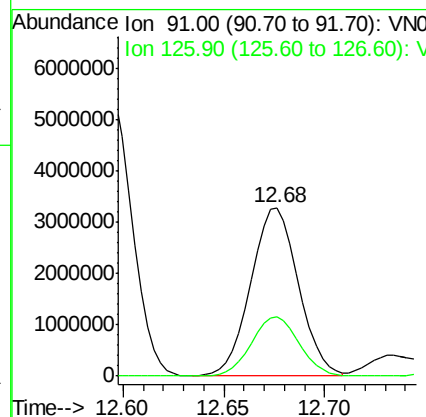
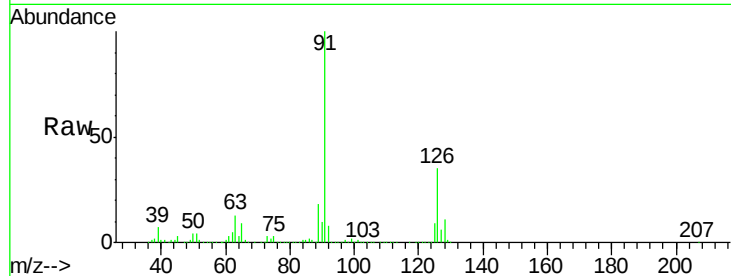
#79
 2-Chlorotoluene
 Concen: 129.349 ug/l
 RT: 12.68 min Scan# 3391
 Delta R.T. 0.00 min
 Lab File: VN052956.D
 Acq: 18 Dec 2018 12:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tgt Ion: 91 Resp: 5419325
 Ion Ratio Lower Upper
 91 100
 126 35.5 17.4 52.3

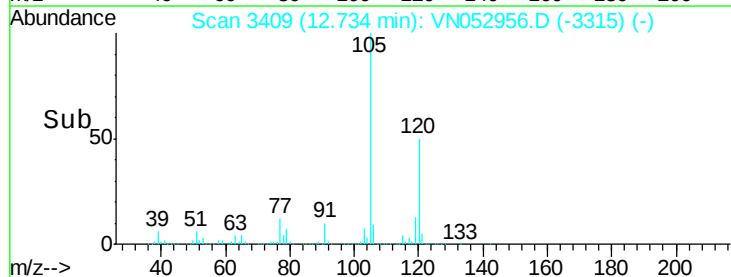
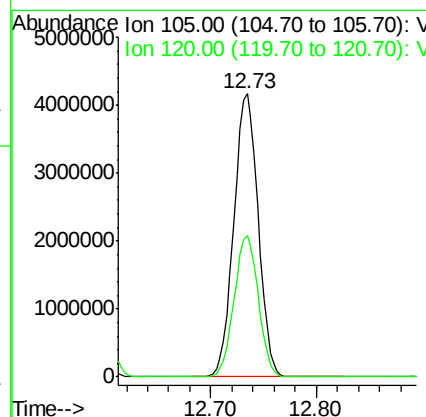
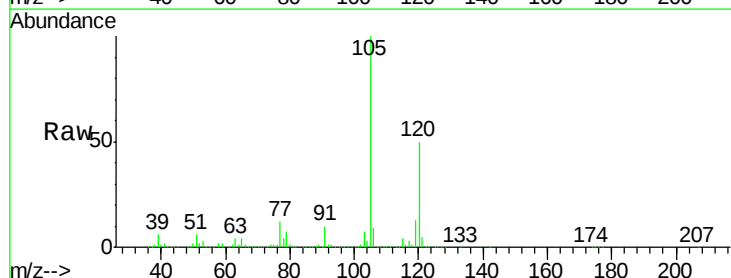
Manual Integrations
 APPROVED

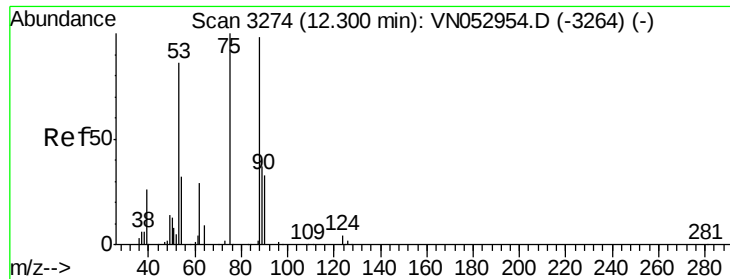
MMDadoda
 12/19/2018 12:06:32 PM



#80
 1,3,5-Trimethylbenzene
 Concen: 138.549 ug/l
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN052956.D
 Acq: 18 Dec 2018 12:42

Tgt Ion: 105 Resp: 6632760
 Ion Ratio Lower Upper
 105 100
 120 49.6 24.4 73.2





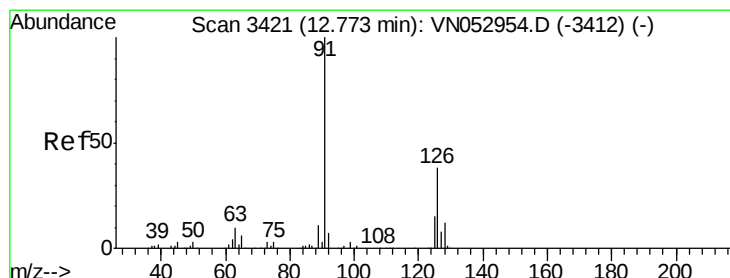
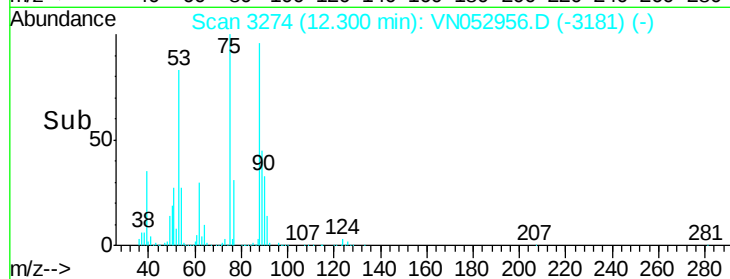
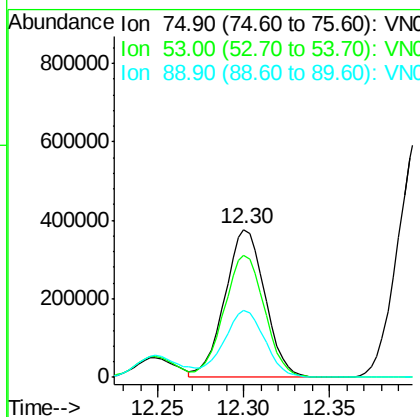
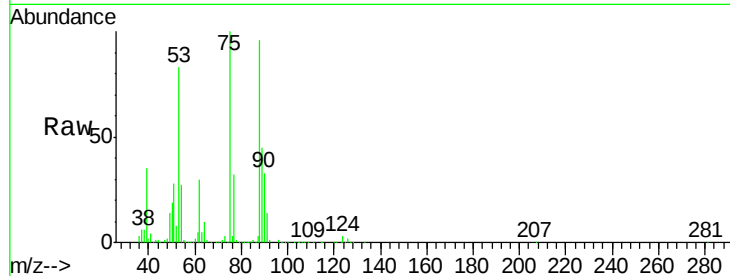
#81
trans-1,4-Dichloro-2-butene
Concen: 160.205 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. -0.00 min
Lab File: VN052956.D
Acq: 18 Dec 2018 12:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion	Ratio	Lower	Upper
75	100		
53	83.9	74.7	112.1
89	46.7	36.1	54.1

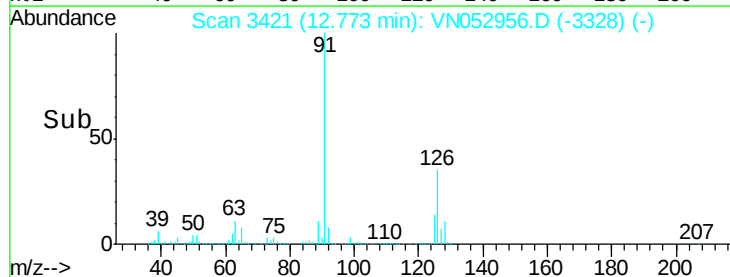
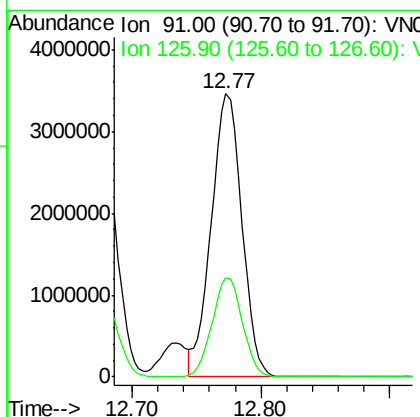
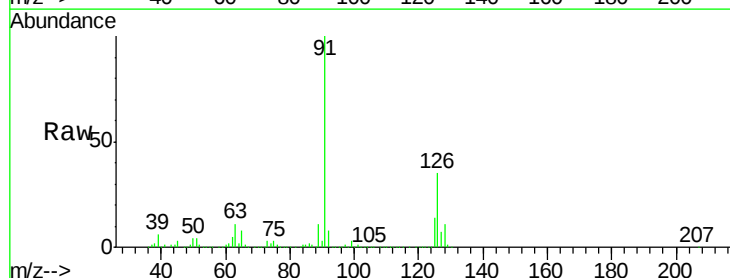
Manual Integrations
APPROVED

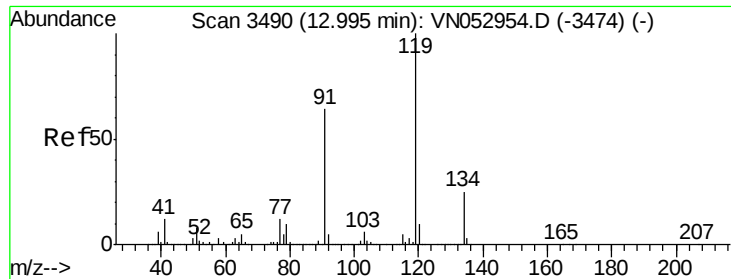
MMDadoda
12/19/2018 12:06:32 PM



#82
4-Chlorotoluene
Concen: 140.782 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. -0.00 min
Lab File: VN052956.D
Acq: 18 Dec 2018 12:42

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.6	17.3	51.7





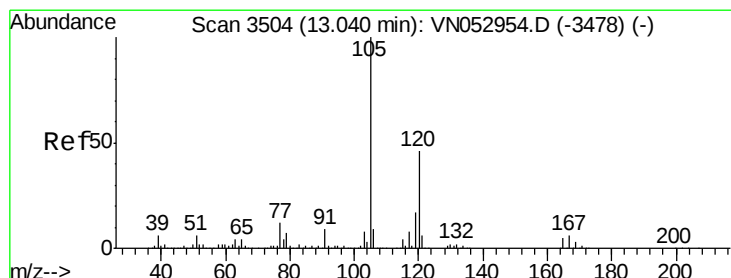
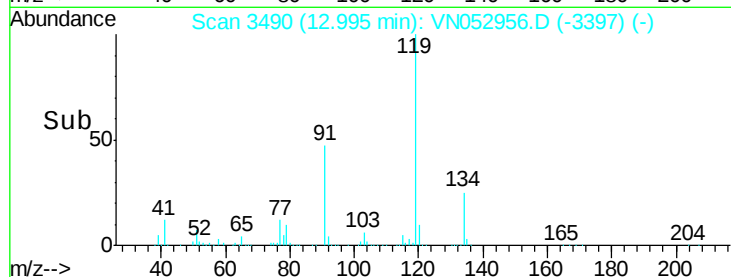
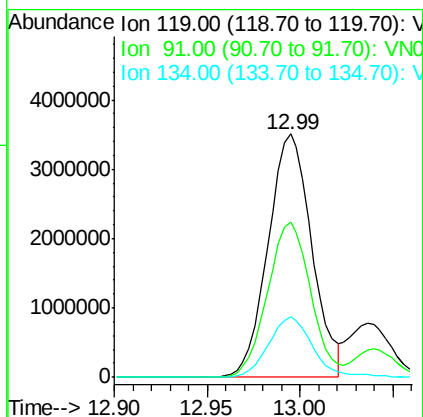
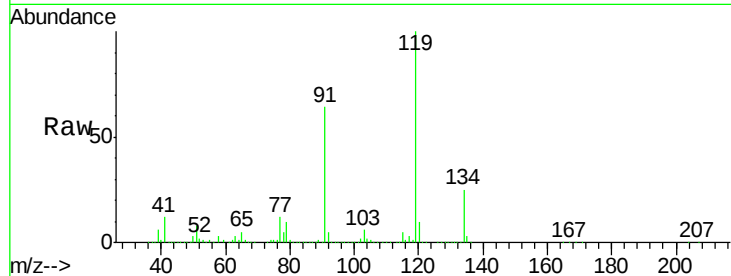
#83
 tert-Butylbenzene
 Concen: 135.307 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. -0.00 min
 Lab File: VN052956.D
 Acq: 18 Dec 2018 12:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tgt Ion:119 Resp: 5749803
 Ion Ratio Lower Upper
 119 100
 91 63.3 31.9 95.5
 134 25.4 12.8 38.4

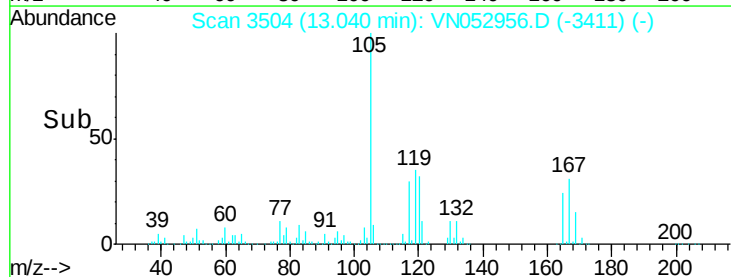
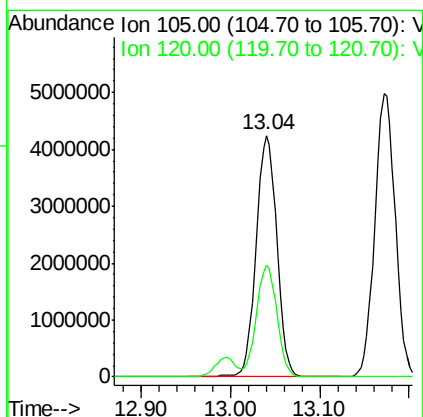
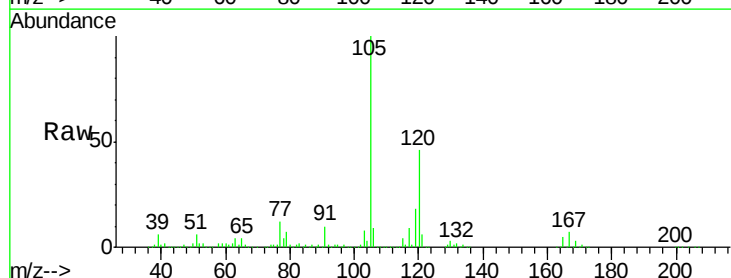
Manual Integrations
 APPROVED

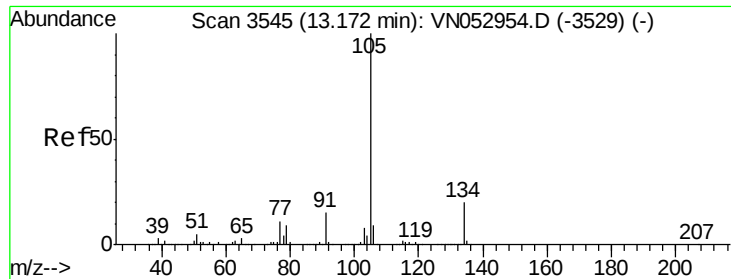
MMDadoda
 12/19/2018 12:06:32 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 142.259 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN052956.D
 Acq: 18 Dec 2018 12:42

Tgt Ion:105 Resp: 6817868
 Ion Ratio Lower Upper
 105 100
 120 46.1 22.9 68.8





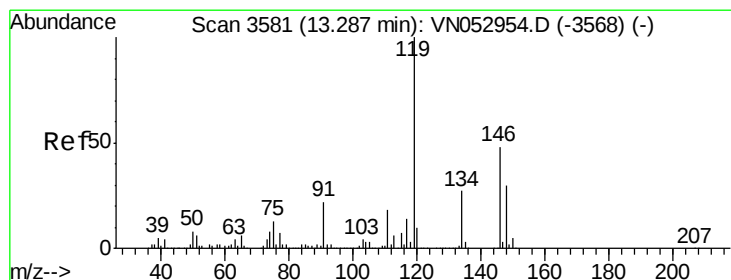
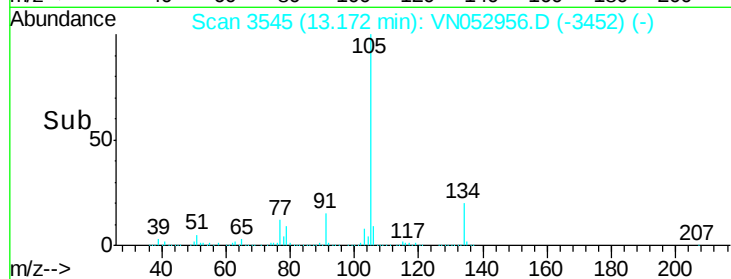
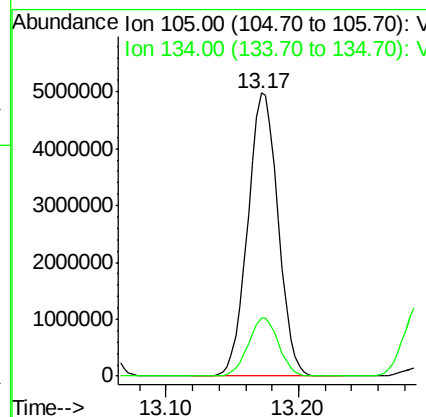
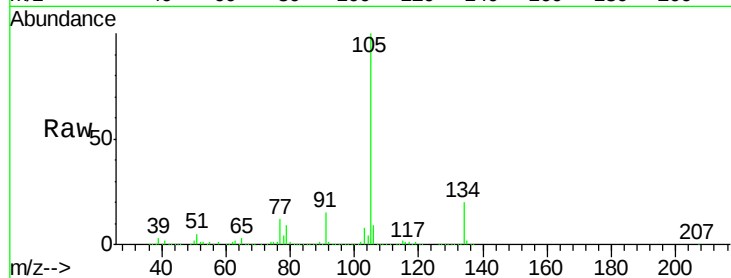
#85
 sec-Butylbenzene
 Concen: 137.234 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. -0.00 min
 Lab File: VN052956.D
 Acq: 18 Dec 2018 12:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tgt Ion:105 Resp: 7870762
 Ion Ratio Lower Upper
 105 100
 134 20.5 10.1 30.3

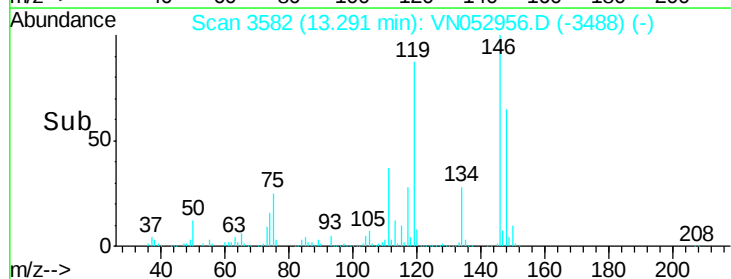
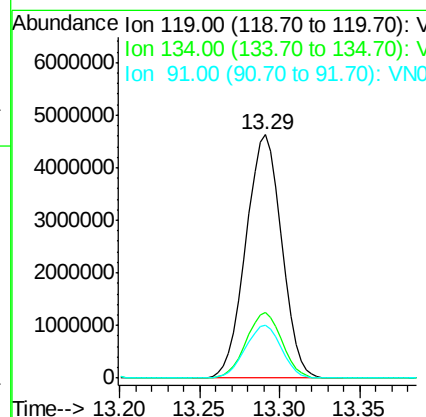
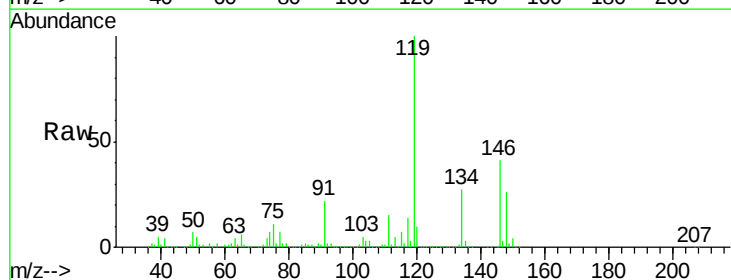
Manual Integrations
 APPROVED

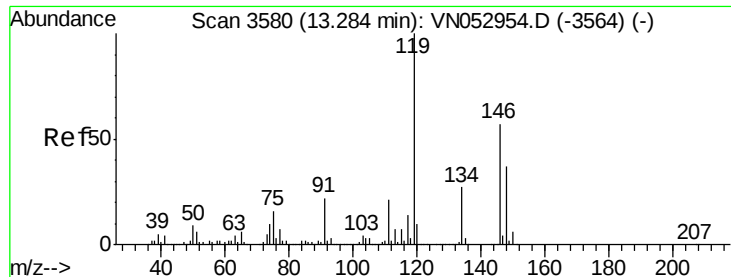
MMDadoda
 12/19/2018 12:06:32 PM



#86
 p-Isopropyltoluene
 Concen: 143.533 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN052956.D
 Acq: 18 Dec 2018 12:42

Tgt Ion:119 Resp: 7063041
 Ion Ratio Lower Upper
 119 100
 134 26.8 13.4 40.2
 91 21.8 11.1 33.3





#87

1,3-Dichlorobenzene

Concen: 141.470 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.00 min

Lab File: VN052956.D

Acq: 18 Dec 2018 12:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion:146 Resp: 3810223

Ion Ratio Lower Upper

146 100

111 38.3 19.1 57.1

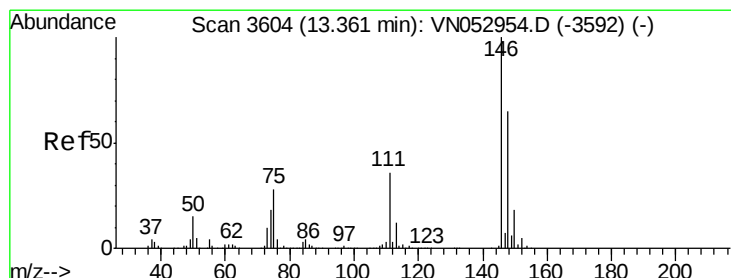
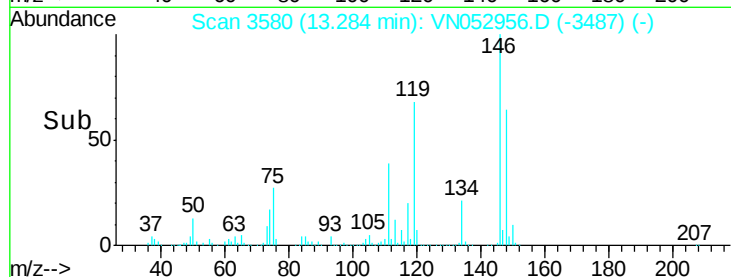
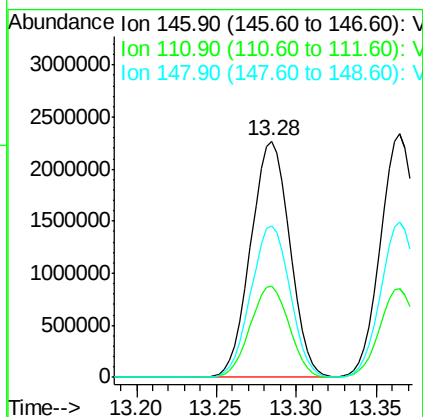
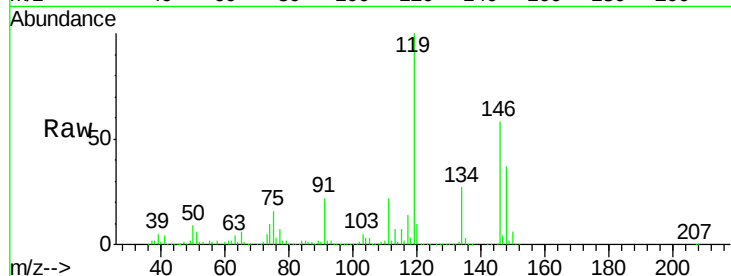
148 64.3 32.0 96.0

Manual Integrations

APPROVED

MMDadoda

12/19/2018 12:06:32 PM



#88

1,4-Dichlorobenzene

Concen: 138.004 ug/l

RT: 13.36 min Scan# 3605

Delta R.T. 0.00 min

Lab File: VN052956.D

Acq: 18 Dec 2018 12:42

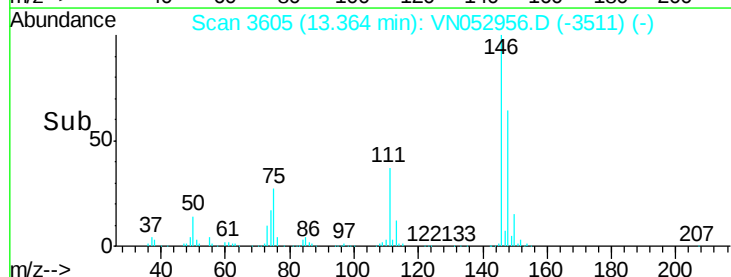
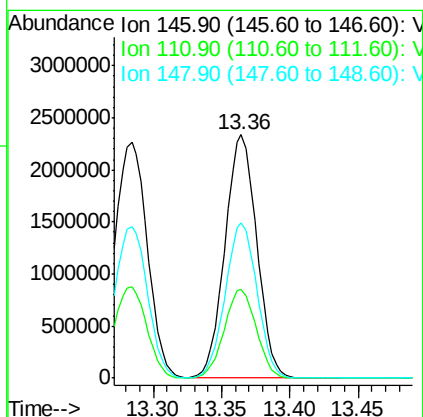
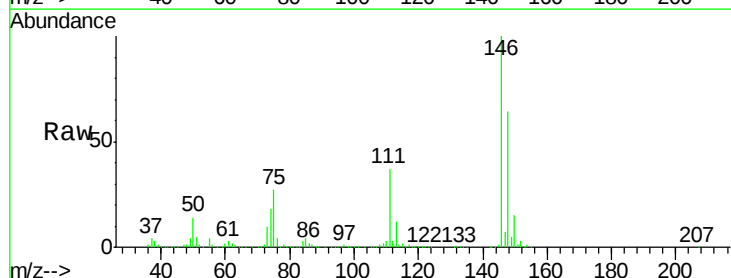
Tgt Ion:146 Resp: 3778724

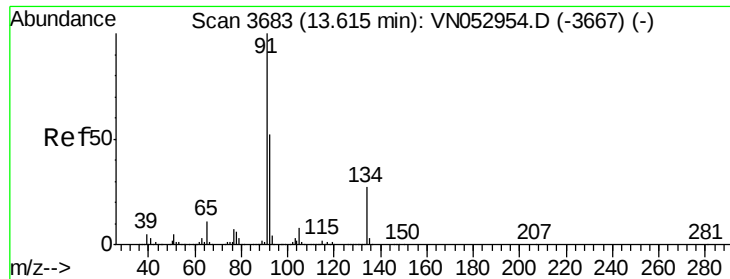
Ion Ratio Lower Upper

146 100

111 36.8 18.6 55.8

148 63.8 32.1 96.5





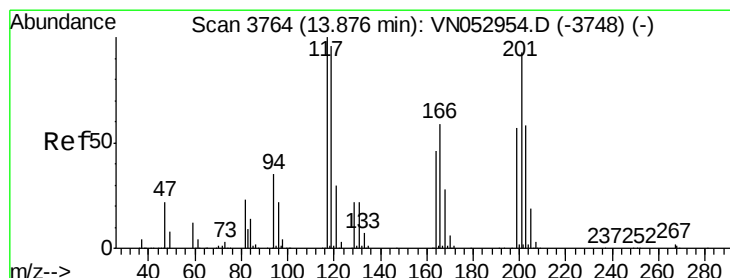
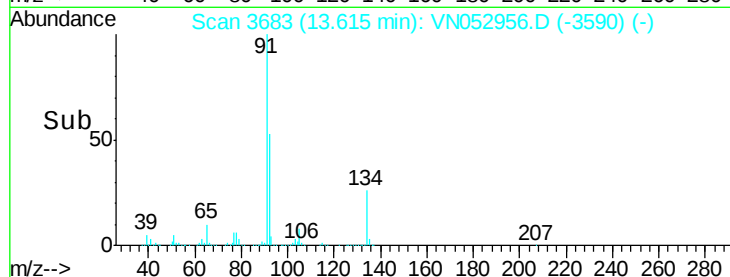
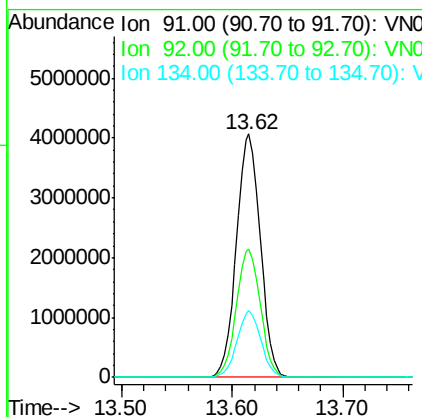
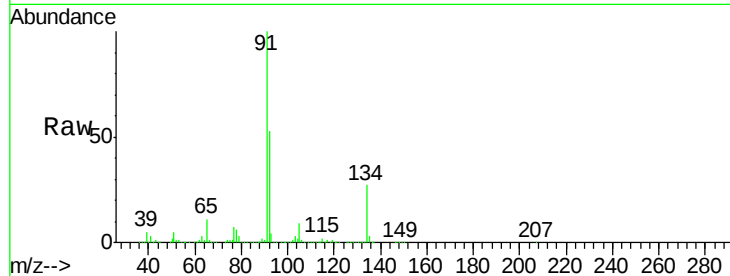
#89
n-Butylbenzene
Concen: 144.166 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. -0.00 min
Lab File: VN052956.D
Acq: 18 Dec 2018 12:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion: 91 Resp: 6098913
Ion Ratio Lower Upper
91 100
92 52.9 26.3 78.9
134 27.1 13.3 39.8

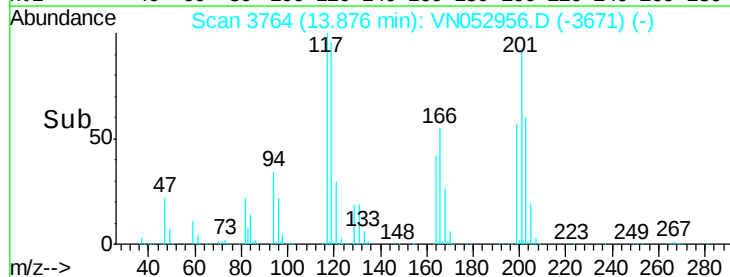
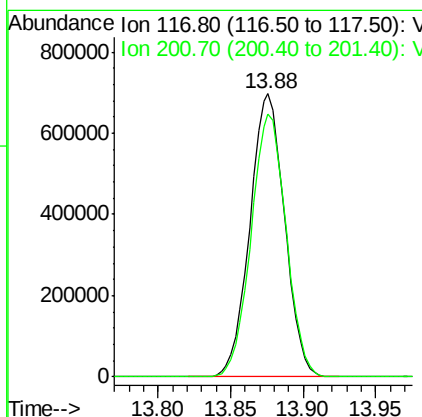
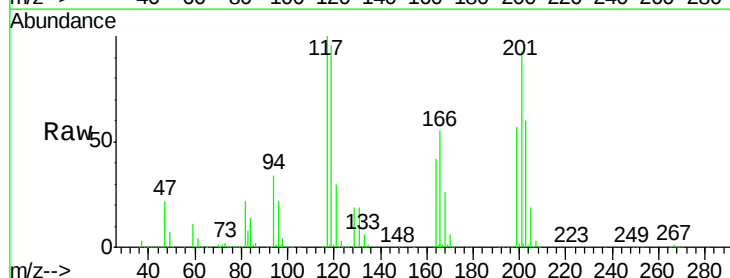
Manual Integrations
APPROVED

MMDadoda
12/19/2018 12:06:32 PM



#90
Hexachloroethane
Concen: 156.324 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. -0.00 min
Lab File: VN052956.D
Acq: 18 Dec 2018 12:42

Tgt Ion: 117 Resp: 1163814
Ion Ratio Lower Upper
117 100
201 93.3 45.7 137.1





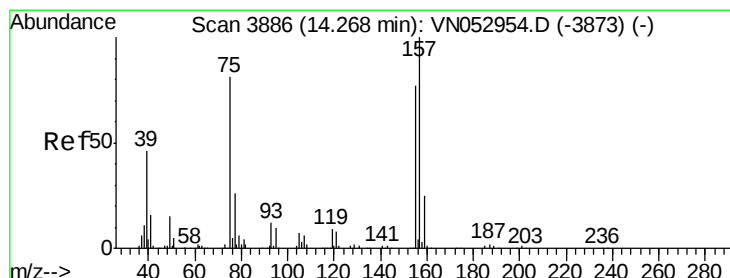
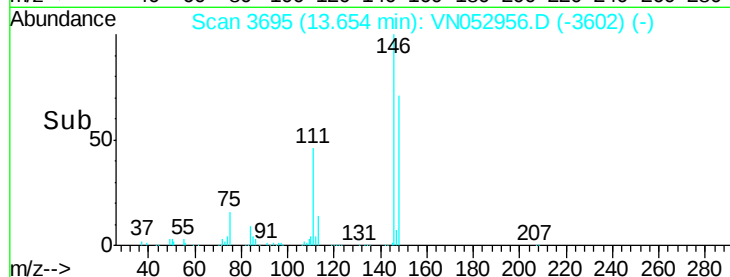
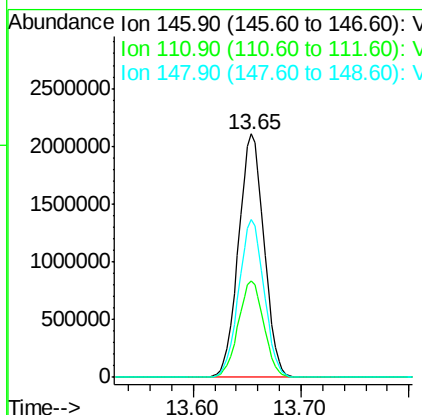
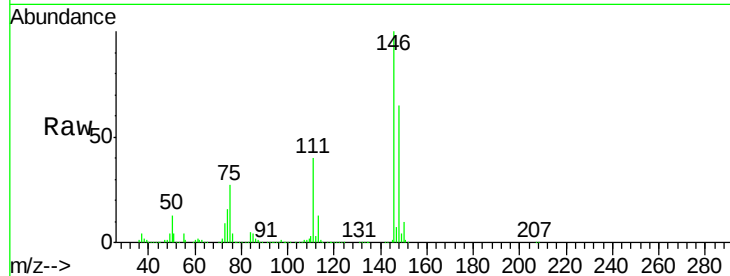
#91
 1,2-Dichlorobenzene
 Concen: 135.766 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. -0.00 min
 Lab File: VN052956.D
 Acq: 18 Dec 2018 12:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.6	19.7	59.0
148	64.5	32.0	96.0

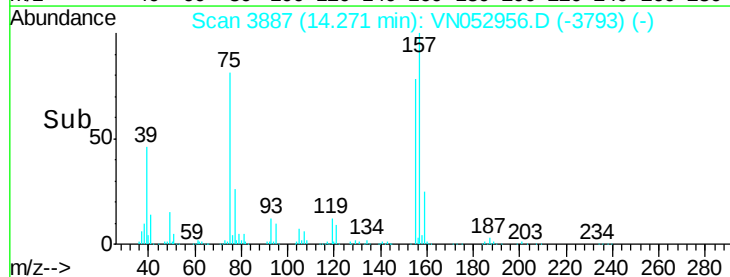
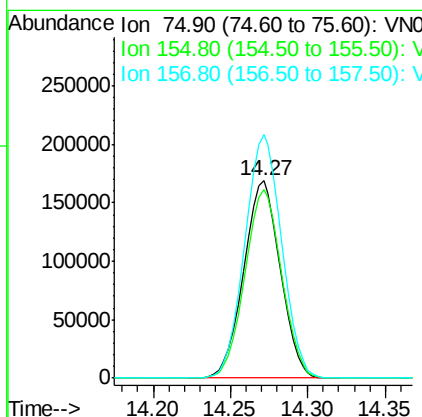
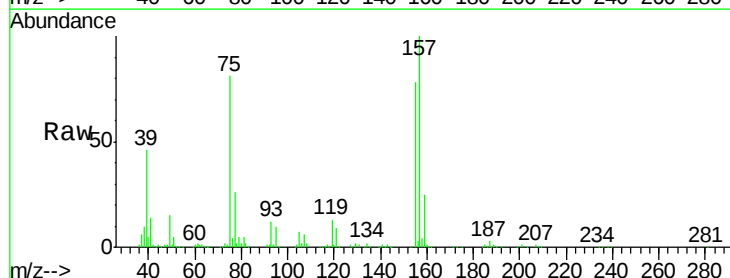
Manual Integrations
 APPROVED

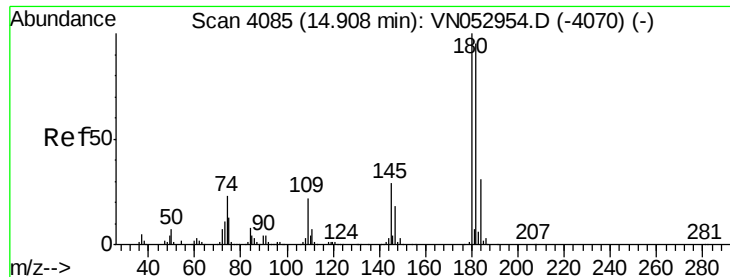
MMDadoda
 12/19/2018 12:06:32 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 139.493 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN052956.D
 Acq: 18 Dec 2018 12:42

Tgt Ion	Ratio	Lower	Upper
75	100		
155	96.2	48.2	144.6
157	124.5	61.2	183.5





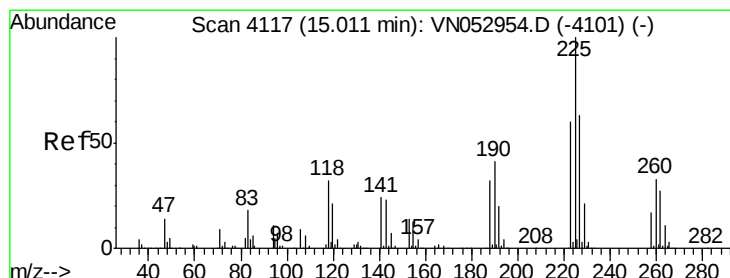
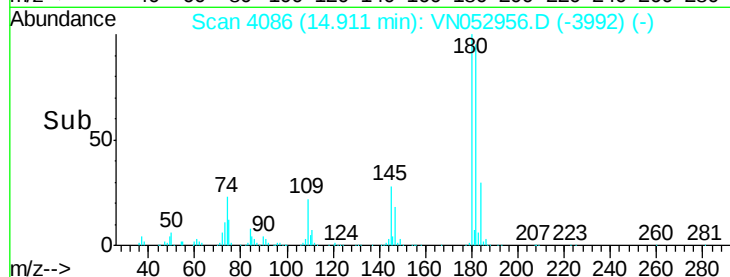
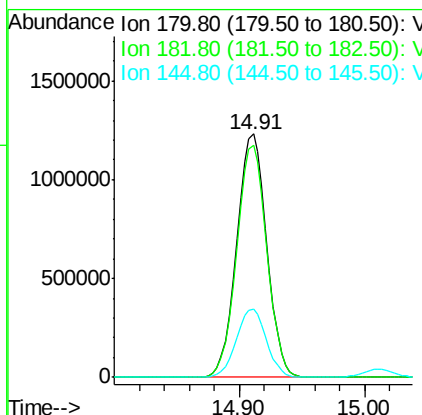
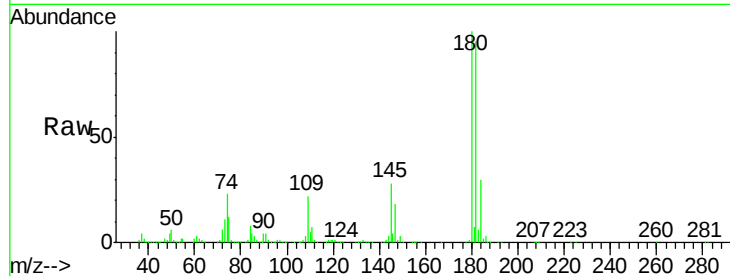
#93
 1,2,4-Trichlorobenzene
 Concen: 133.906 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN052956.D
 Acq: 18 Dec 2018 12:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.7	47.8	143.3
145	28.3	14.2	42.6

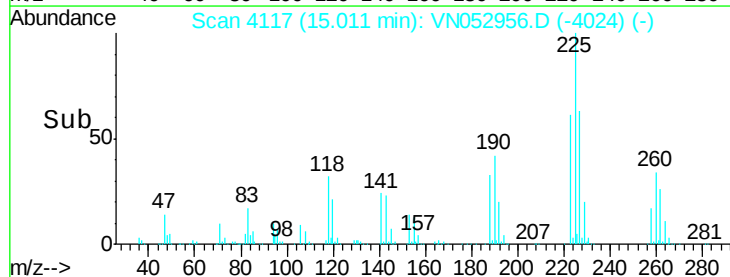
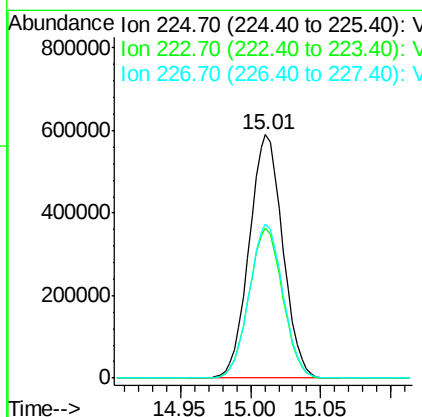
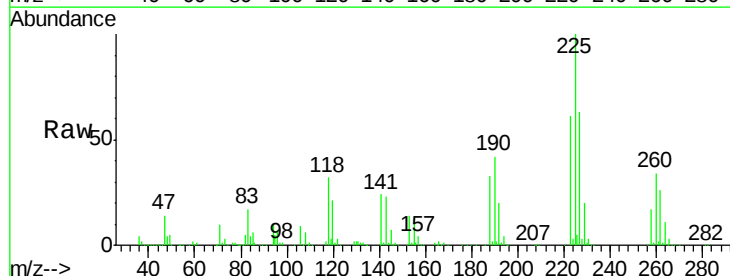
Manual Integrations
 APPROVED

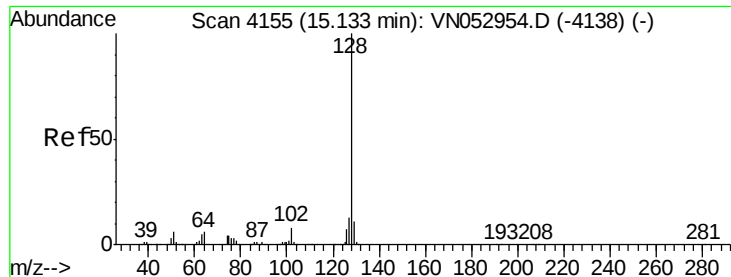
MMDadoda
 12/19/2018 12:06:32 PM



#94
 Hexachlorobutadiene
 Concen: 108.095 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. -0.00 min
 Lab File: VN052956.D
 Acq: 18 Dec 2018 12:42

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.1	31.5	94.5
227	63.8	31.9	95.7





#95

Naphthalene

Concen: 133.825 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN052956.D

Acq: 18 Dec 2018 12:42

Instrument :

MSVOA_N

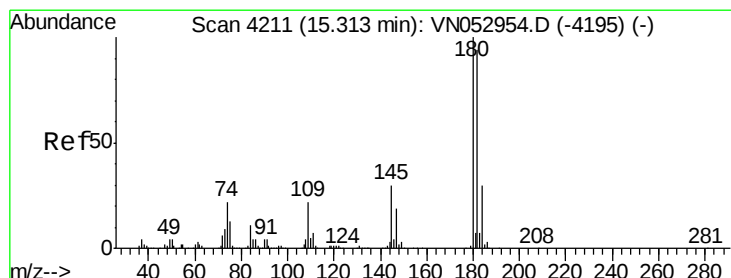
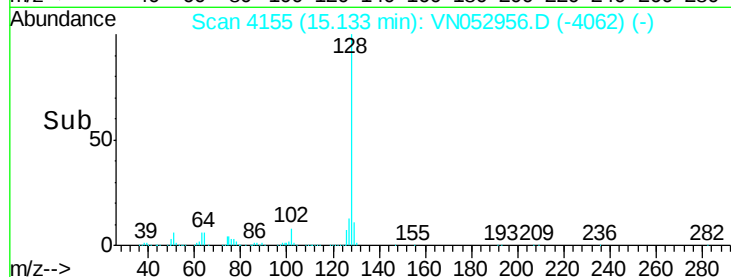
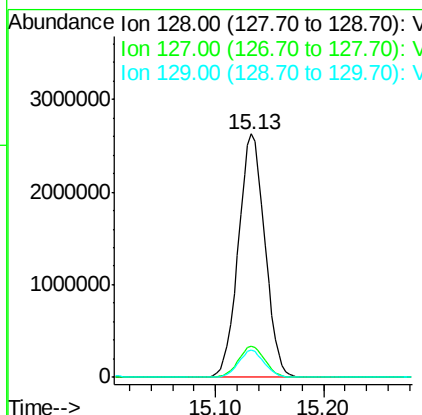
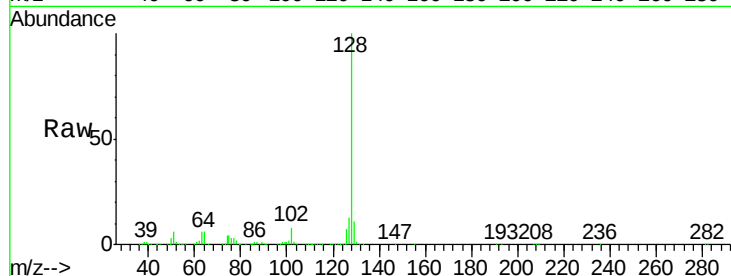
ClientSampleId :

VSTDIC150

Tgt Ion:	128	Resp:	4489891
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.4
129	10.9	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
12/19/2018 12:06:32 PM



#96

1,2,3-Trichlorobenzene

Concen: 128.702 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN052956.D

Acq: 18 Dec 2018 12:42

Tgt Ion:	180	Resp:	1830324
Ion	Ratio	Lower	Upper
180	100		
182	96.3	47.9	143.7
145	30.3	15.0	45.0

