

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072219\
 Data File : VN056855.D
 Acq On : 22 Jul 2019 13:58
 Operator : JC/SP
 Sample : VSTDICC150
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

MMDadoda
 7/25/2019 3:01:28 PM

Quant Time: Jul 23 01:42:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072219W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 23 01:05:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	359375	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	545202	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	505945	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	253389	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	552715	140.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	280.22%	
35) Dibromofluoromethane	7.59	113	499880	146.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	293.70%	
50) Toluene-d8	10.09	98	1950595	148.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	297.02%	
62) 4-Bromofluorobenzene	12.40	95	704545	159.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	319.72%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	645067	178.373	ug/l	100
3) Chloromethane	2.06	50	739114	156.764	ug/l	99
4) Vinyl Chloride	2.18	62	695116	154.207	ug/l	99
5) Bromomethane	2.53	94	410178	155.146	ug/l	98
6) Chloroethane	2.68	64	369692m	142.952	ug/l	
7) Trichlorofluoromethane	3.00	101	811284	142.497	ug/l	99
8) Diethyl Ether	3.40	74	301931	138.403	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.74	101	497264	145.020	ug/l	99
10) Methyl Iodide	3.94	142	726602	157.296	ug/l	99
11) Tert butyl alcohol	4.81	59	414419	640.491	ug/l	99
12) 1,1-Dichloroethene	3.72	96	509052	148.084	ug/l	98
13) Acrolein	3.60	56	336778	1135.502	ug/l	98
14) Allyl chloride	4.31	41	862764	146.796	ug/l	99
15) Acrylonitrile	4.99	53	1247326	660.576	ug/l	99
16) Acetone	3.82	43	918547	522.080	ug/l	99
17) Carbon Disulfide	4.04	76	1471013	160.744	ug/l	100
18) Methyl Acetate	4.33	43	652532	129.680	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	1531133	141.483	ug/l	99
20) Methylene Chloride	4.54	84	579403	142.546	ug/l	99
21) trans-1,2-Dichloroethene	5.03	96	543044	149.996	ug/l	96
22) Diisopropyl ether	5.95	45	1697078	145.563	ug/l	98
23) Vinyl Acetate	5.90	43	6392841	691.688	ug/l	100
24) 1,1-Dichloroethane	5.84	63	975826	144.232	ug/l	100
25) 2-Butanone	6.84	43	1533394	590.870	ug/l	99
26) 2,2-Dichloropropane	6.82	77	686908	142.283	ug/l	100
27) cis-1,2-Dichloroethene	6.83	96	619051	149.013	ug/l	99
28) Bromochloromethane	7.19	49	424780	134.543	ug/l	99
29) Tetrahydrofuran	7.21	42	1040736	610.418	ug/l	99
30) Chloroform	7.37	83	951283	140.393	ug/l	99
31) Cyclohexane	7.65	56	926792	143.740	ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	808879	150.796	ug/l	99
36) 1,1-Dichloropropene	7.79	75	750652	146.751	ug/l	99
37) Ethyl Acetate	6.93	43	634506	130.221	ug/l	99
38) Carbon Tetrachloride	7.77	117	720347	150.223	ug/l	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	948577	150.262	ug/l	99
40) Benzene	8.04	78	2269020	144.817	ug/l	99
41) Methacrylonitrile	7.17	41	323096	149.011	ug/l	93
42) 1,2-Dichloroethane	8.12	62	702008	142.242	ug/l	99
43) Isopropyl Acetate	8.17	43	1068525	138.491	ug/l	99
44) Trichloroethene	8.83	130	617424	144.957	ug/l	98
45) 1,2-Dichloropropane	9.12	63	605948	145.882	ug/l	98
46) Dibromomethane	9.21	93	376900	146.862	ug/l	99
47) Bromodichloromethane	9.40	83	749139	153.262	ug/l	97
48) Methyl methacrylate	9.20	41	531579	141.675	ug/l	99
49) 1,4-Dioxane	9.20	88	206829	2667.754	ug/l	95
51) 4-Methyl-2-Pentanone	9.99	43	3163906	638.255	ug/l	100
52) Toluene	10.15	92	1420191	152.406	ug/l	98
53) t-1,3-Dichloropropene	10.38	75	829851	163.252	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	936707	158.367	ug/l	100
55) 1,1,2-Trichloroethane	10.56	97	548442	141.592	ug/l	100
56) Ethyl methacrylate	10.43	69	850387	154.351	ug/l	99
57) 1,3-Dichloropropane	10.71	76	930546	146.914	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	1846568	711.728	ug/l	99
59) 2-Hexanone	10.75	43	2290715	650.341	ug/l	100
60) Dibromochloromethane	10.90	129	615781	161.437	ug/l	100
61) 1,2-Dibromoethane	11.00	107	579915	150.512	ug/l	99
64) Tetrachloroethene	10.63	164	588642	132.910	ug/l	96
65) Chlorobenzene	11.43	112	1552446	148.111	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	579647	150.298	ug/l	99
67) Ethyl Benzene	11.51	91	2744364	149.208	ug/l	100
68) m/p-Xylenes	11.62	106	2068756	301.106	ug/l	98
69) o-Xylene	11.94	106	1002171	148.328	ug/l	98
70) Styrene	11.96	104	1742387	159.686	ug/l	100
71) Bromoform	12.12	173	458764	158.799	ug/l #	99
73) Isopropylbenzene	12.25	105	2668749	128.365	ug/l	100
74) N-amyl acetate	12.07	43	984234	129.985	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	768350	112.021	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	649926m	118.010	ug/l	
77) Bromobenzene	12.52	156	717221	131.994	ug/l	98
78) n-propylbenzene	12.59	91	3066019	133.509	ug/l	100
79) 2-Chlorotoluene	12.67	91	1798826	126.579	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	2268186	129.059	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	247382	139.389	ug/l	95
82) 4-Chlorotoluene	12.77	91	1840884	136.508	ug/l	100
83) tert-Butylbenzene	12.99	119	1972109	128.617	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	2284713	133.330	ug/l	100
85) sec-Butylbenzene	13.17	105	2636896	134.809	ug/l	99
86) p-Isopropyltoluene	13.29	119	2434218	137.650	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	1243792	140.761	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	1220191	142.004	ug/l	99
89) n-Butylbenzene	13.61	91	2091932	147.718	ug/l	99
90) Hexachloroethane	13.87	117	425116	147.463	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	1216193	134.802	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	140695	131.025	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	770872	189.705	ug/l	99
94) Hexachlorobutadiene	15.01	225	424265	130.480	ug/l	99
95) Naphthalene	15.13	128	1941726	178.800	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	758852	178.652	ug/l	100

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

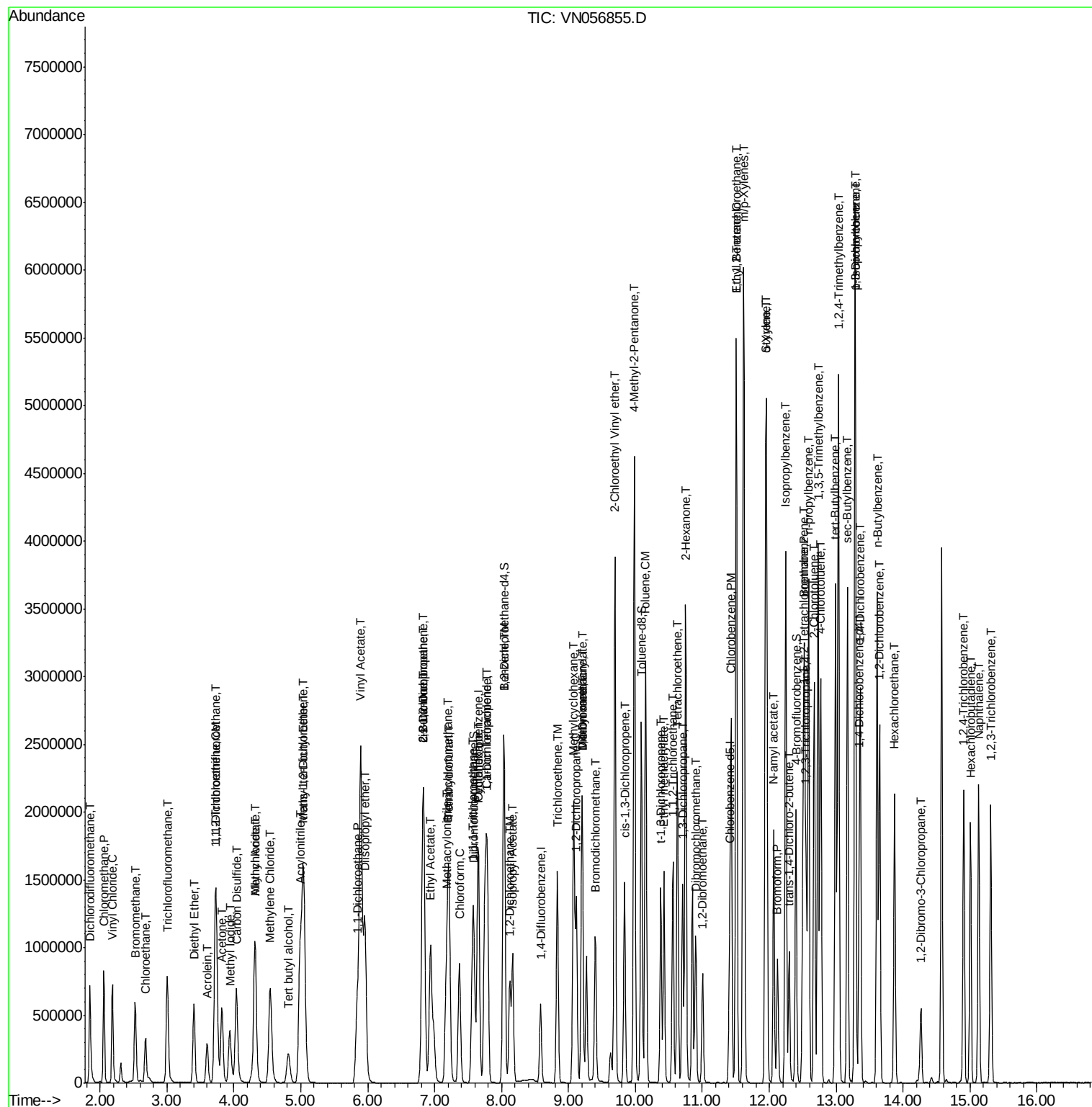
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Data File : VN056855.D
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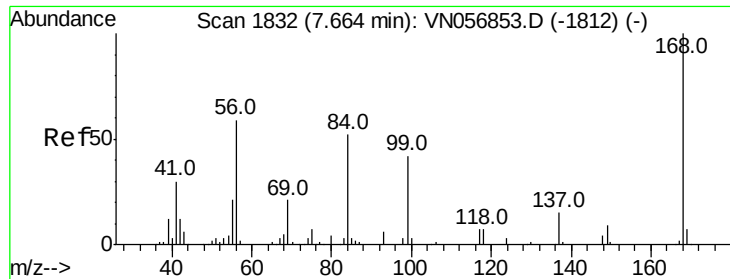
Instrument :
MSVOA_N
ClientSampleId :
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN056855.D

Acq: 22 Jul 2019 13:58

Instrument :

MSVOA_N

ClientSampled :

VSTDIC150

Tot Ion:168 Resp: 359375

Ion Ratio Lower Upper

168 100

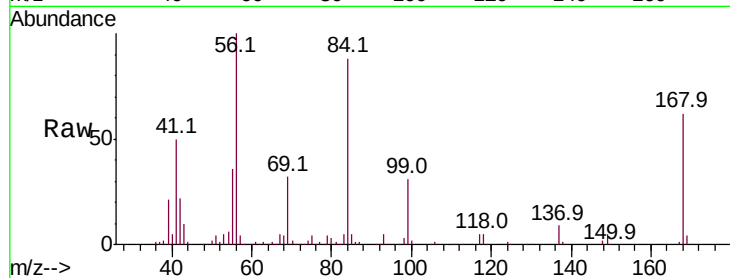
99 49.6 40.9 61.3

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): VN056853.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN056853.D (-1812) (-)

200000

150000

100000

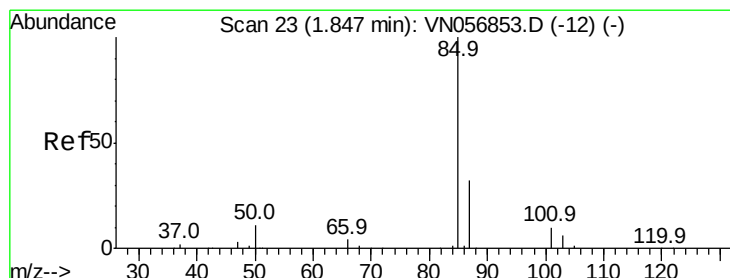
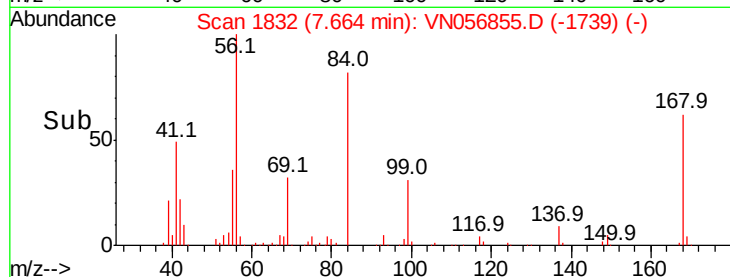
50000

0

7.66

7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 178.373 ug/l

RT: 1.85 min Scan# 23

Delta R.T. 0.00 min

Lab File: VN056855.D

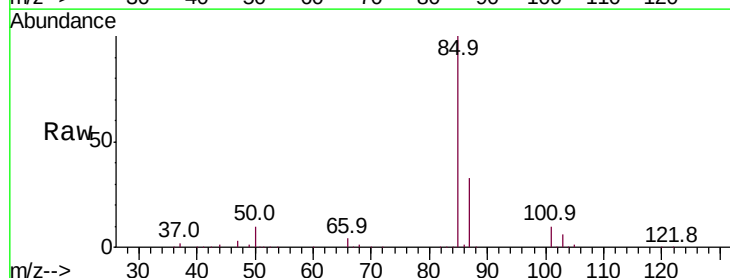
Acq: 22 Jul 2019 13:58

Tgt Ion: 85 Resp: 645067

Ion Ratio Lower Upper

85 100

87 32.6 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VN056853.D (-12) (-)

Ion 86.90 (86.60 to 87.60): VN056853.D (-12) (-)

400000

300000

200000

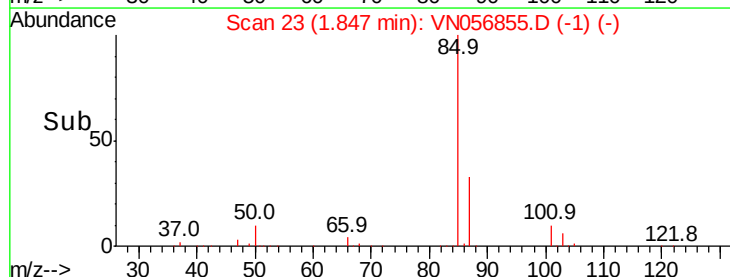
100000

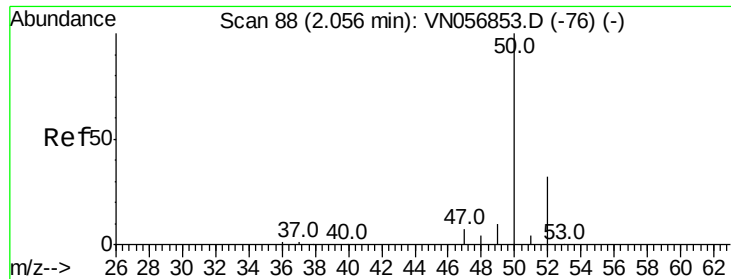
0

1.85

2.00

Time-->





#3

Chloromethane

Concen: 156.764 ug/l

RT: 2.06 min Scan# 88

Delta R.T. 0.00 min

Lab File: VN056855.D

Acq: 22 Jul 2019 13:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 50 Resp: 739114

Ion Ratio Lower Upper

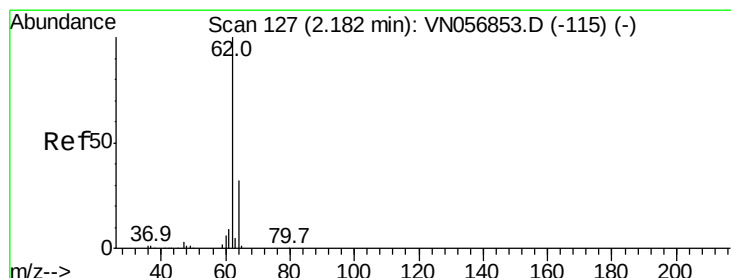
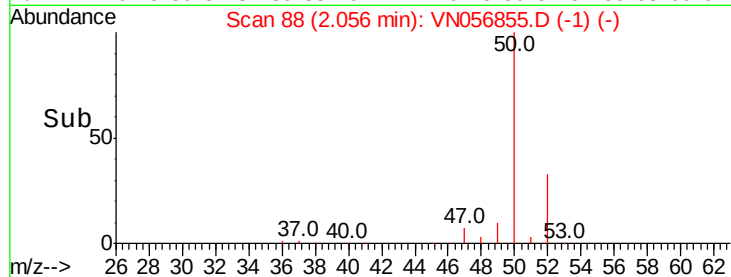
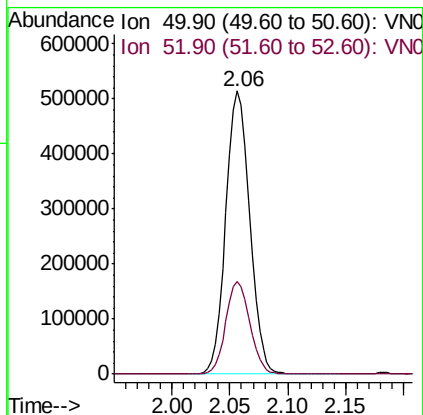
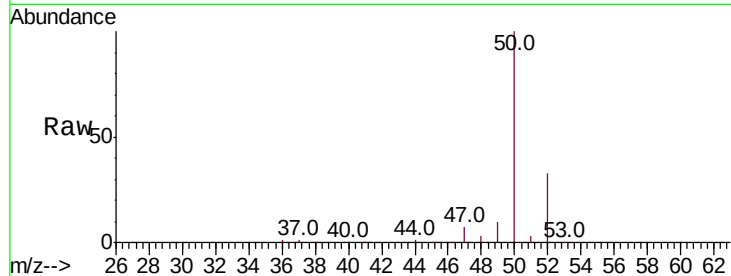
50 100

52 32.8 25.9 38.9

Manual Integrations
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#4

Vinyl Chloride

Concen: 154.207 ug/l

RT: 2.18 min Scan# 128

Delta R.T. 0.00 min

Lab File: VN056855.D

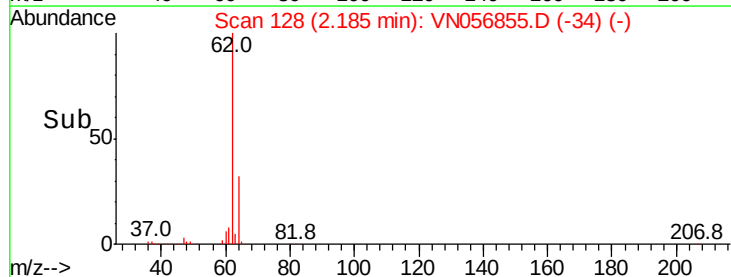
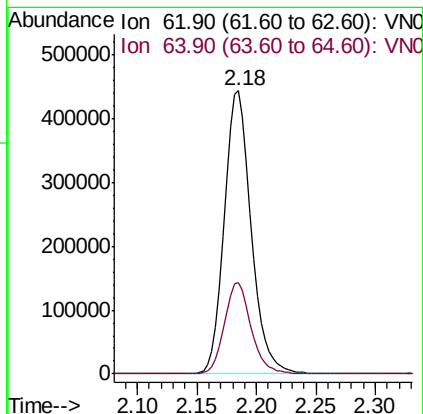
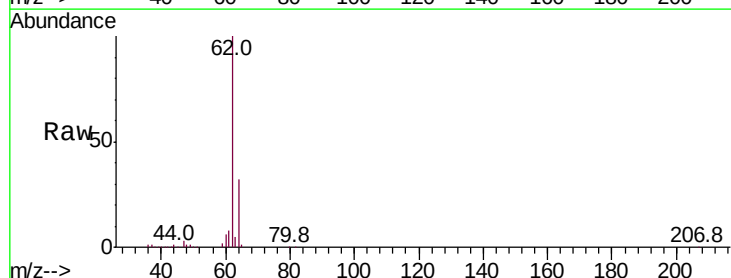
Acq: 22 Jul 2019 13:58

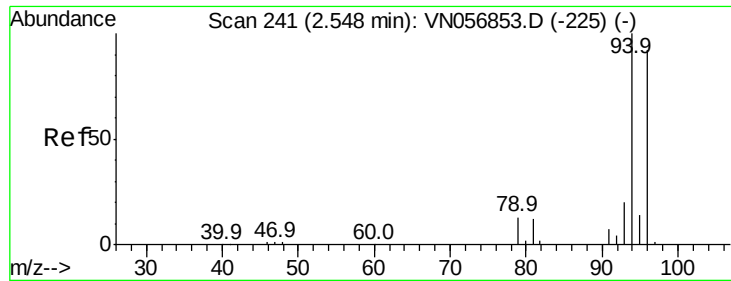
Tgt Ion: 62 Resp: 695116

Ion Ratio Lower Upper

62 100

64 32.4 25.4 38.2





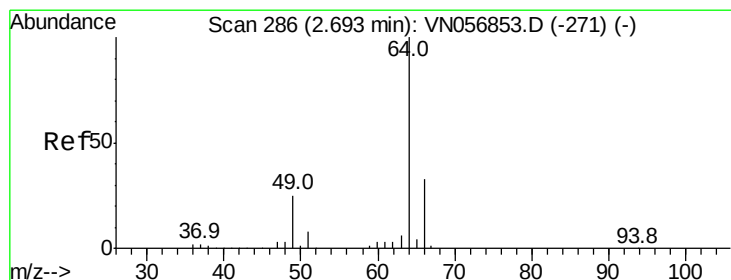
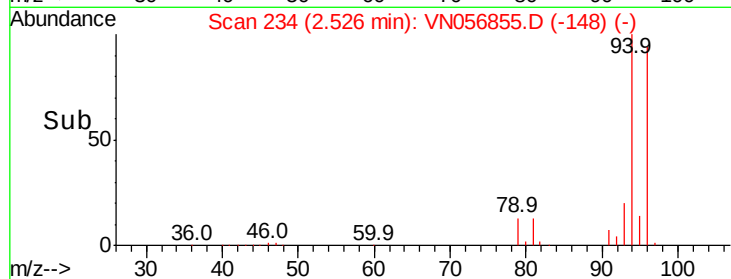
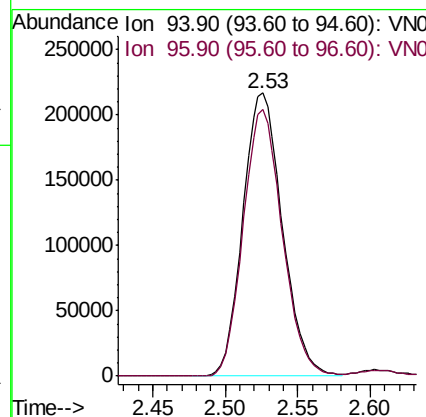
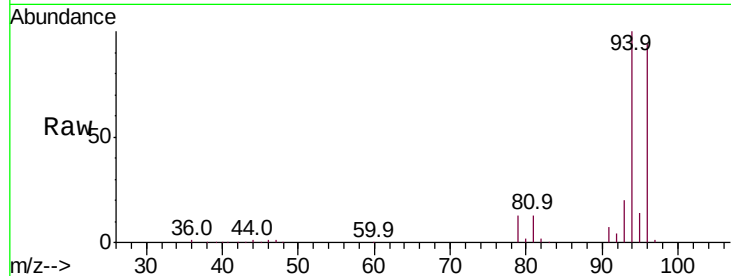
#5
Bromomethane
Concen: 155.146 ug/l
RT: 2.53 min Scan# 234
Delta R.T. -0.02 min
Lab File: VN056855.D
Acq: 22 Jul 2019 13:58

Instrument :
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ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
94	100		
96	94.2	73.6	110.4

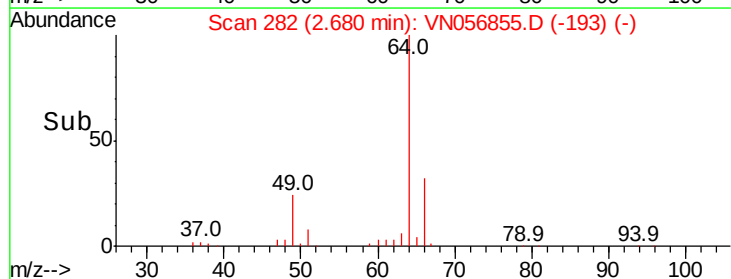
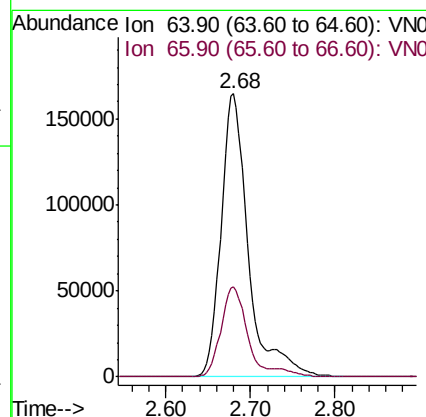
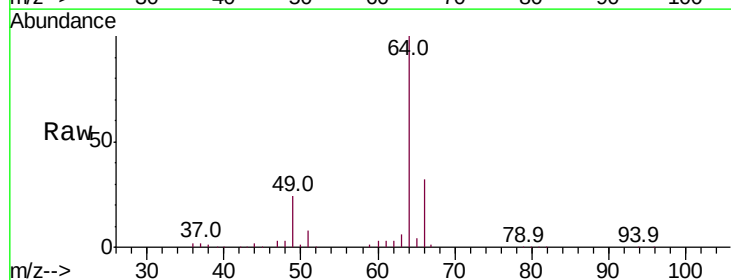
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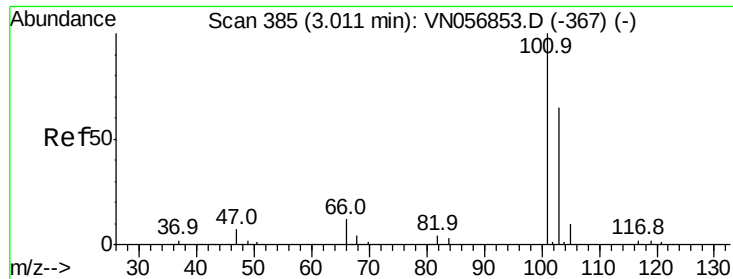
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#6
Chloroethane
Concen: 142.952 ug/l m
RT: 2.68 min Scan# 282
Delta R.T. -0.01 min
Lab File: VN056855.D
Acq: 22 Jul 2019 13:58

Tgt Ion	Ratio	Lower	Upper
64	100		
66	32.0	26.4	39.6





#7

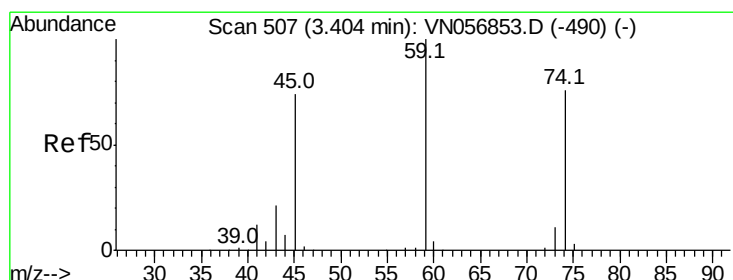
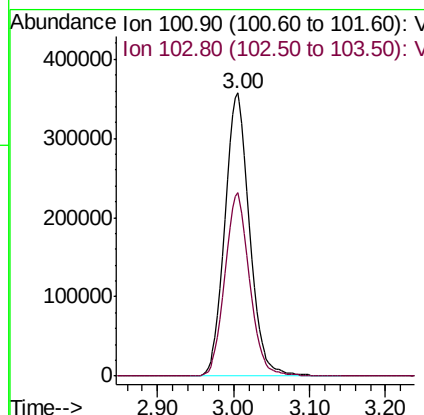
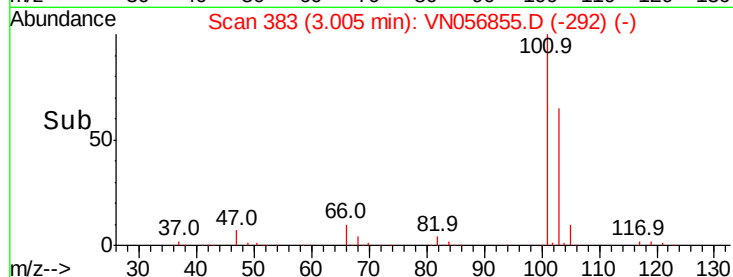
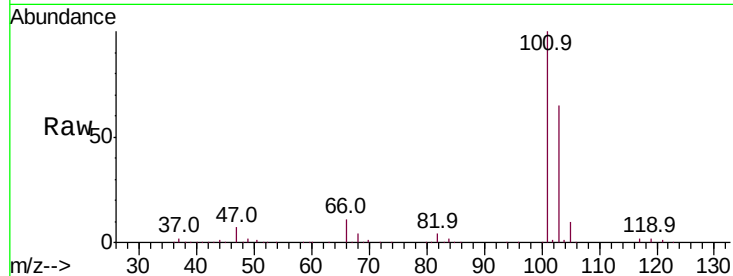
Trichlorofluoromethane
Concen: 142.497 ug/l
RT: 3.00 min Scan# 383
Delta R.T. -0.01 min
Lab File: VN056855.D
Acq: 22 Jul 2019 13:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion:101 Resp: 811284
Ion Ratio Lower Upper
101 100
103 64.8 52.3 78.5

Manual Integrations
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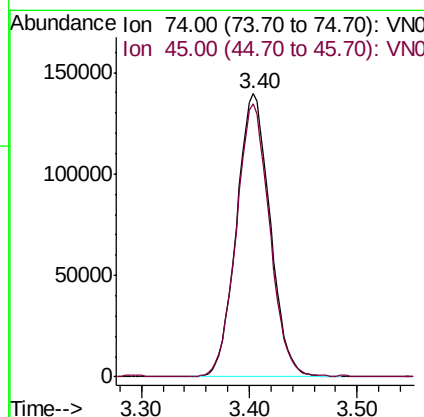
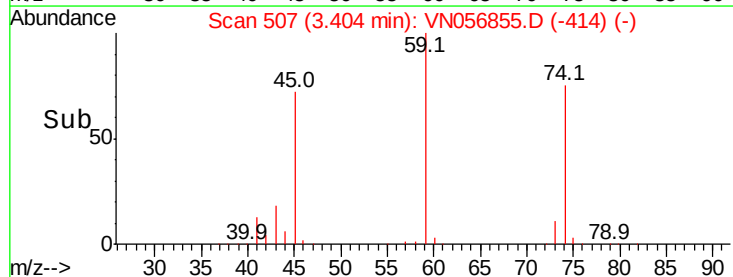
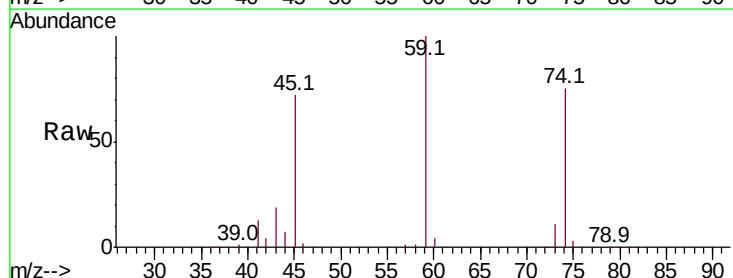
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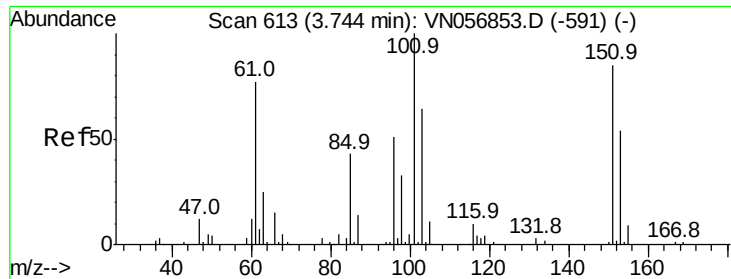


#8

Diethyl Ether
Concen: 138.403 ug/l
RT: 3.40 min Scan# 507
Delta R.T. 0.00 min
Lab File: VN056855.D
Acq: 22 Jul 2019 13:58

Tgt Ion: 74 Resp: 301931
Ion Ratio Lower Upper
74 100
45 95.5 49.2 147.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 145.020 ug/l

RT: 3.74 min Scan# 612

Delta R.T. -0.00 min

Lab File: VN056855.D

Acq: 22 Jul 2019 13:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:101 Resp: 497264

Ion Ratio Lower Upper

101 100

85 41.3 33.7 50.5

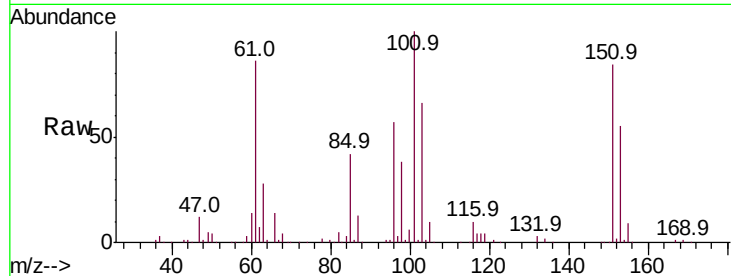
151 83.7 68.1 102.1

Manual Integrations

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MMDadoda

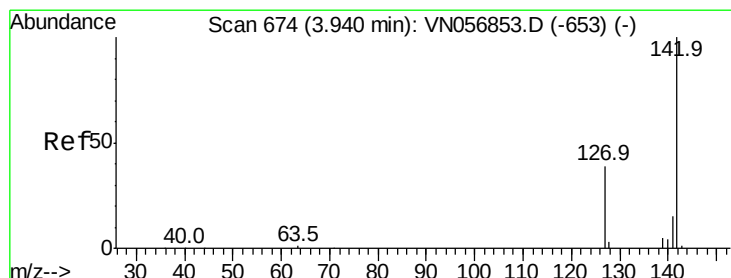
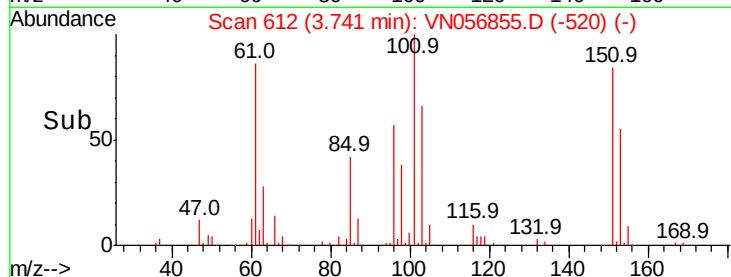
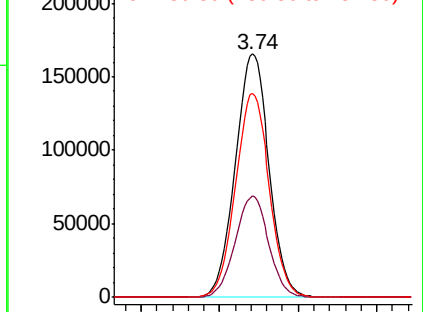
7/25/2019 3:01:28 PM



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: 157.296 ug/l

RT: 3.94 min Scan# 674

Delta R.T. 0.00 min

Lab File: VN056855.D

Acq: 22 Jul 2019 13:58

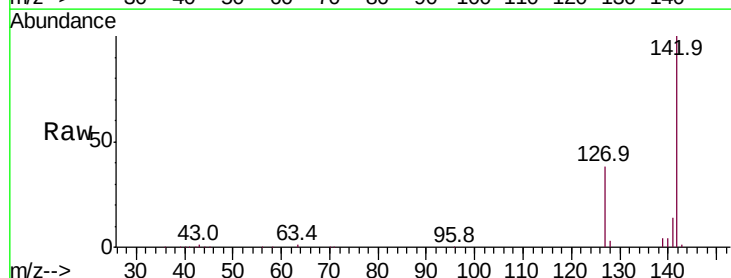
Tgt Ion:142 Resp: 726602

Ion Ratio Lower Upper

142 100

127 38.2 31.2 46.8

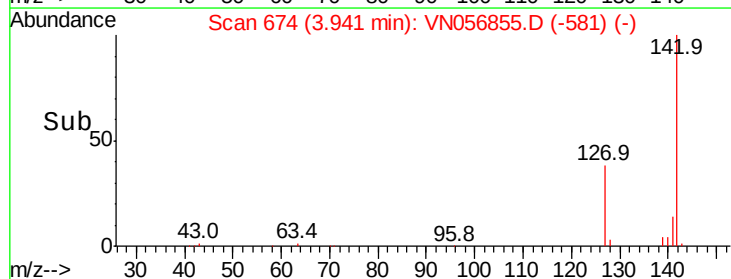
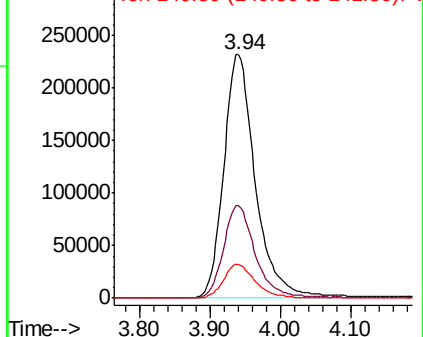
141 14.0 11.4 17.2

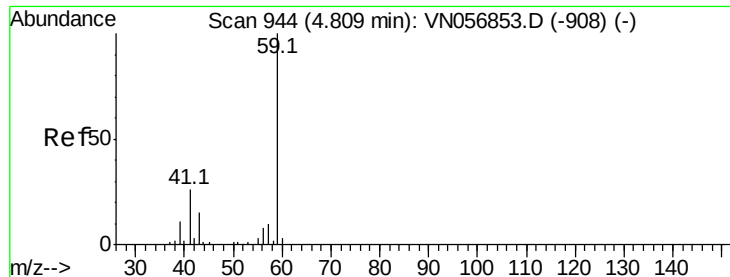


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#11

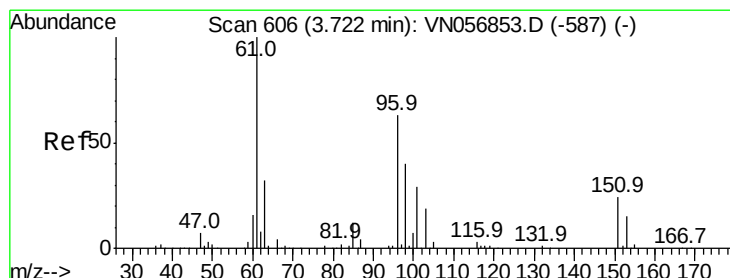
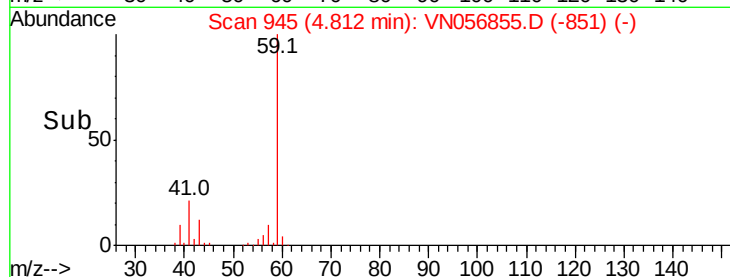
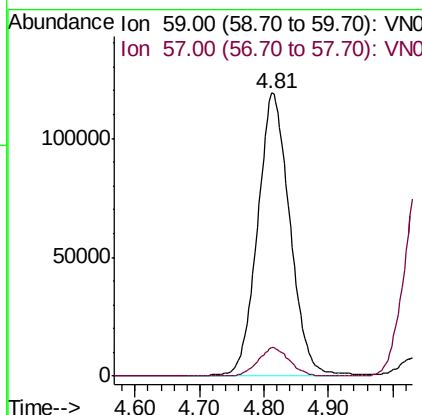
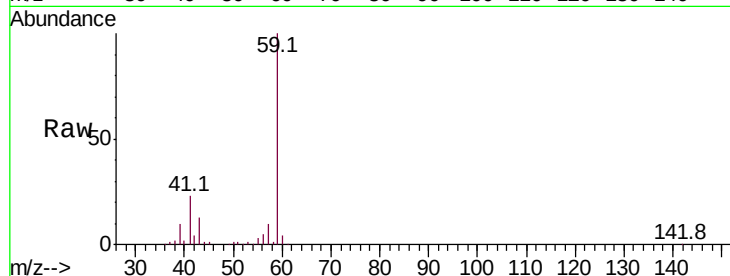
Tert butyl alcohol
Concen: 640.491 ug/l
RT: 4.81 min Scan# 945
Delta R.T. 0.00 min
Lab File: VN056855.D
Acq: 22 Jul 2019 13:58

Instrument :
MSVOA_N
ClientSampled :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.9	8.2	12.4

Manual Integrations
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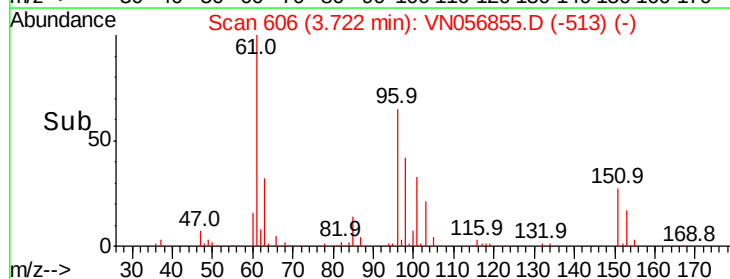
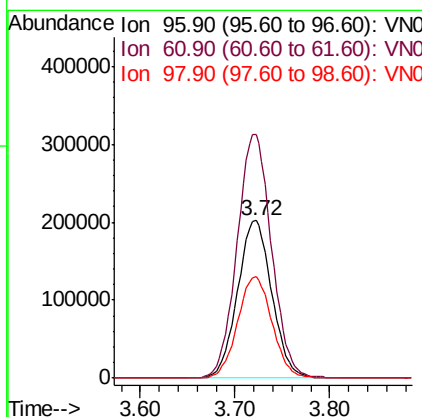
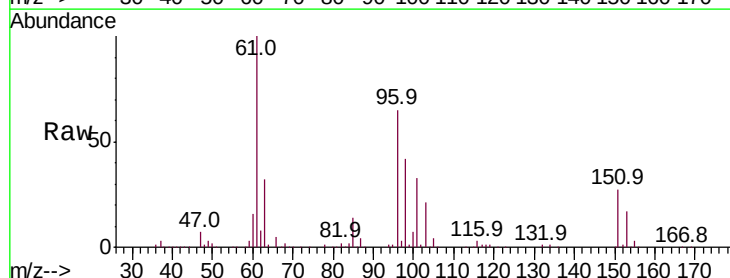
MMDadoda
7/25/2019 3:01:28 PM

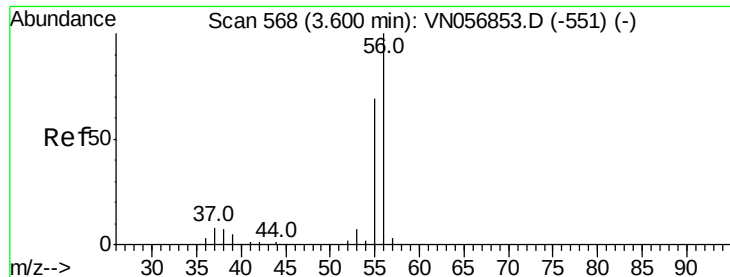


#12

1,1-Dichloroethene
Concen: 148.084 ug/l
RT: 3.72 min Scan# 606
Delta R.T. 0.00 min
Lab File: VN056855.D
Acq: 22 Jul 2019 13:58

Tgt Ion	Ratio	Lower	Upper
96	100		
61	154.2	126.3	189.5
98	64.2	51.0	76.4





#13

Acrolein

Concen: 1135.502 ug/l

RT: 3.60 min Scan# 568

Delta R.T. 0.00 min

Lab File: VN056855.D

Acq: 22 Jul 2019 13:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 56 Resp: 336778

Ion Ratio Lower Upper

56 100

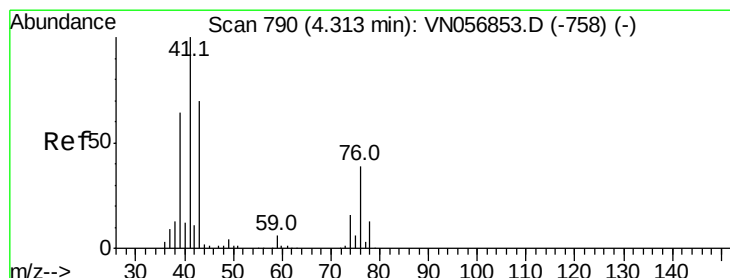
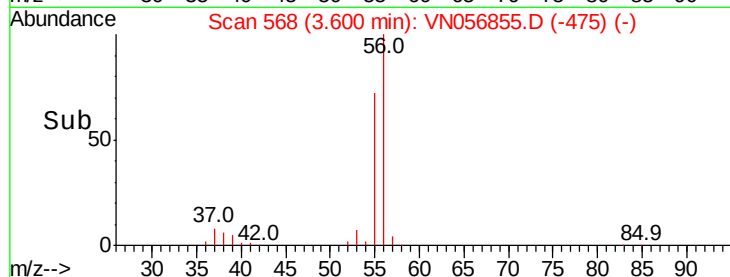
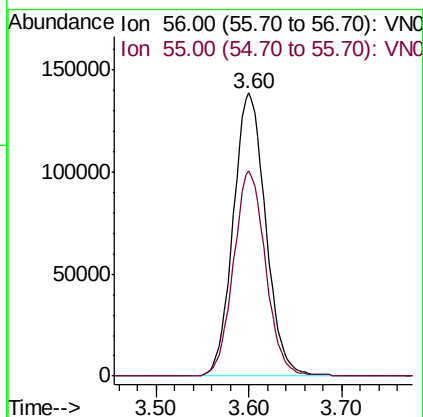
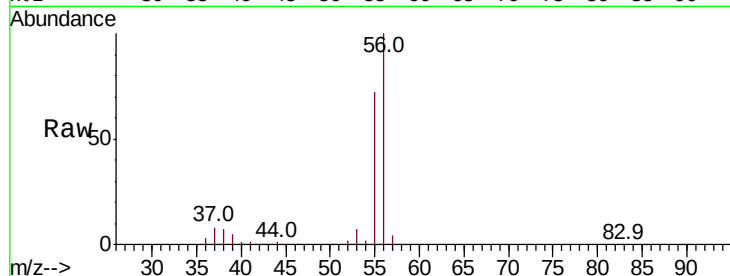
55 72.0 56.2 84.4

Manual Integrations

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#14

Allyl chloride

Concen: 146.796 ug/l

RT: 4.31 min Scan# 789

Delta R.T. -0.00 min

Lab File: VN056855.D

Acq: 22 Jul 2019 13:58

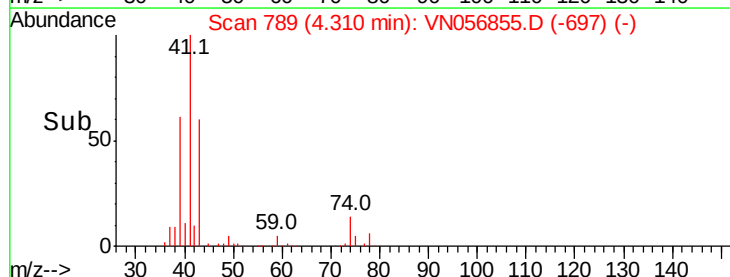
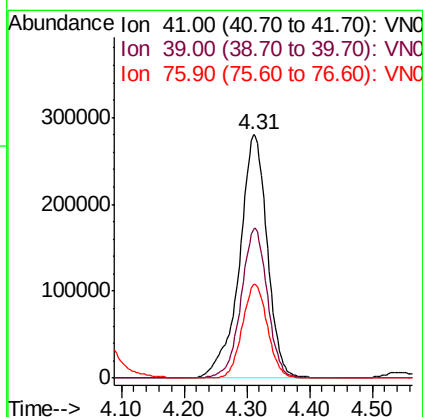
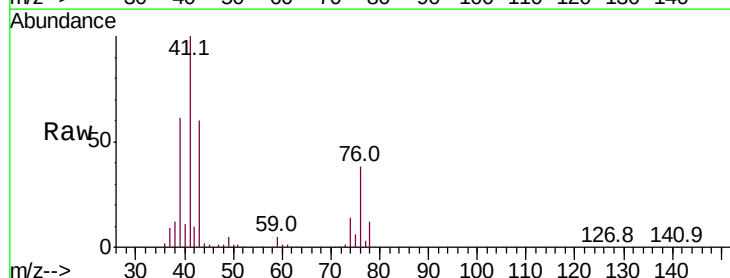
Tgt Ion: 41 Resp: 862764

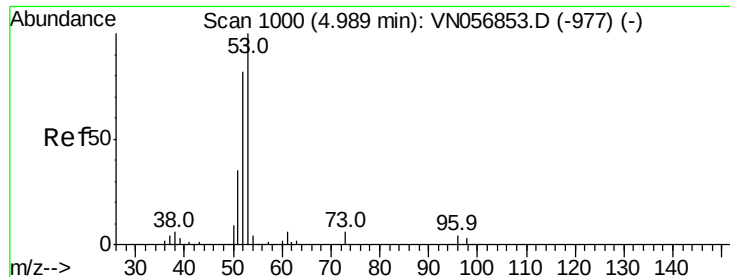
Ion Ratio Lower Upper

41 100

39 58.3 47.8 71.6

76 34.6 27.9 41.9





#15

Acrylonitrile

Concen: 660.576 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VN056855.D

Acq: 22 Jul 2019 13:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 53 Resp: 1247326

Ion Ratio Lower Upper

53 100

52 82.1 65.0 97.6

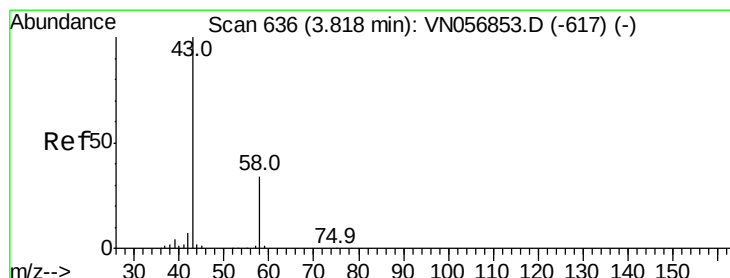
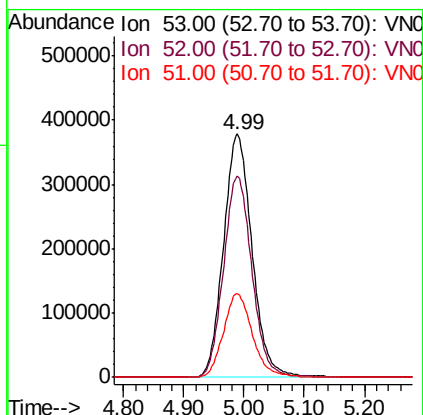
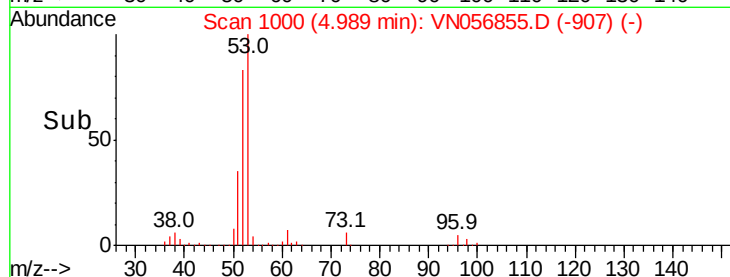
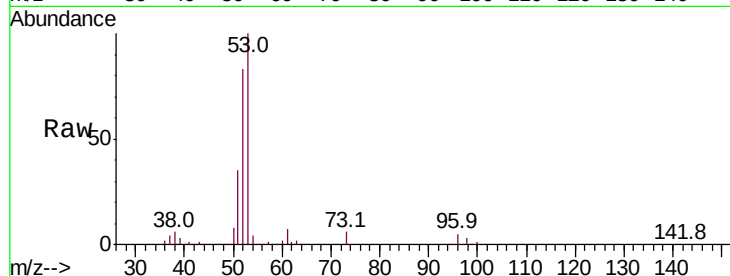
51 35.0 28.2 42.2

Manual Integrations

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#16

Acetone

Concen: 522.080 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN056855.D

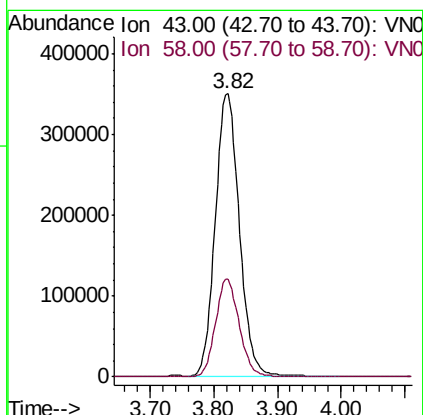
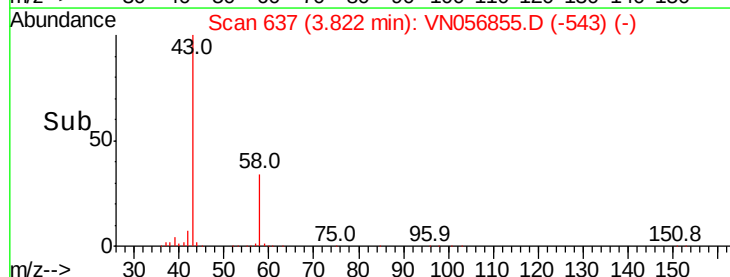
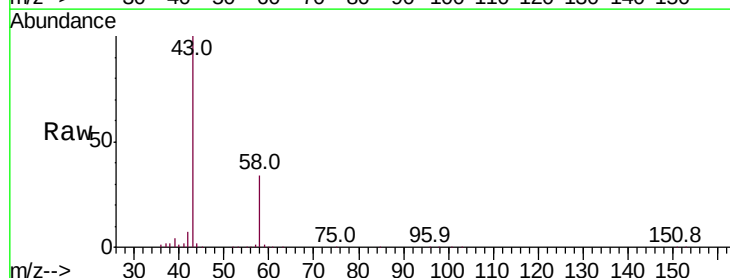
Acq: 22 Jul 2019 13:58

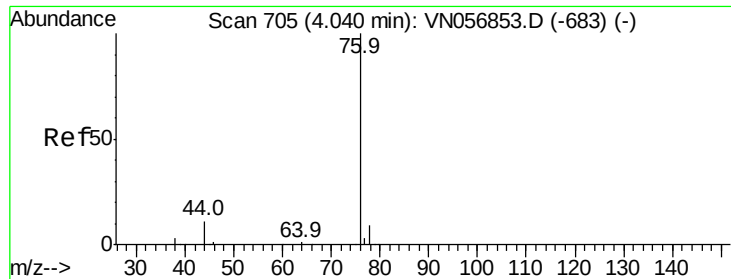
Tgt Ion: 43 Resp: 918547

Ion Ratio Lower Upper

43 100

58 34.4 27.3 40.9





#17

Carbon Disulfide

Concen: 160.744 ug/l

RT: 4.04 min Scan# 704

Delta R.T. -0.00 min

Lab File: VN056855.D

Acq: 22 Jul 2019 13:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 76 Resp: 1471013

Ion Ratio Lower Upper

76 100

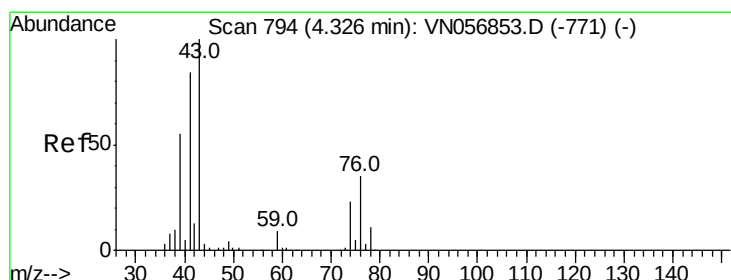
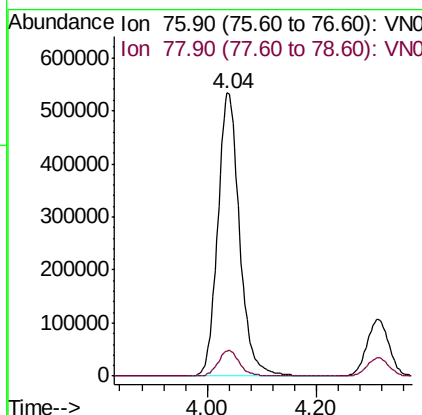
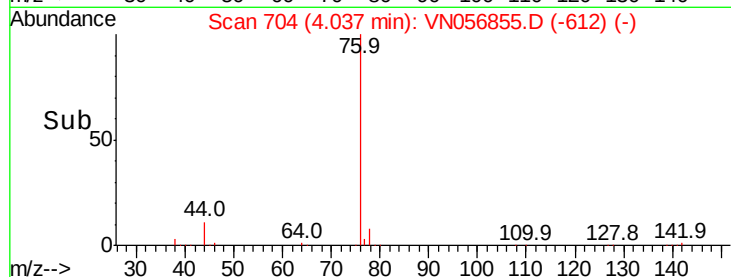
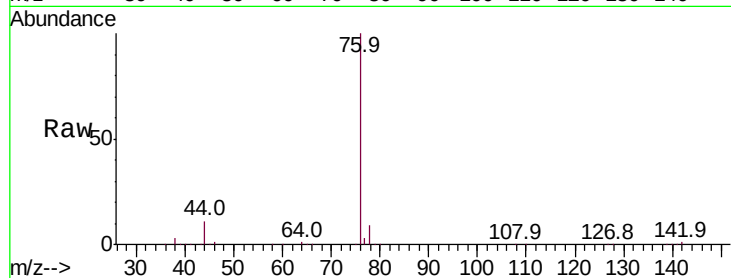
78 9.0 7.2 10.8

Manual Integrations

APPROVED

MMDadoda

7/25/2019 3:01:28 PM



#18

Methyl Acetate

Concen: 129.680 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN056855.D

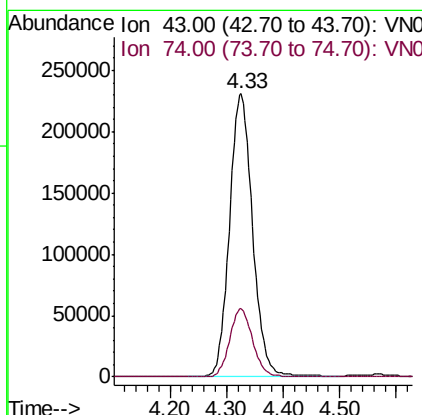
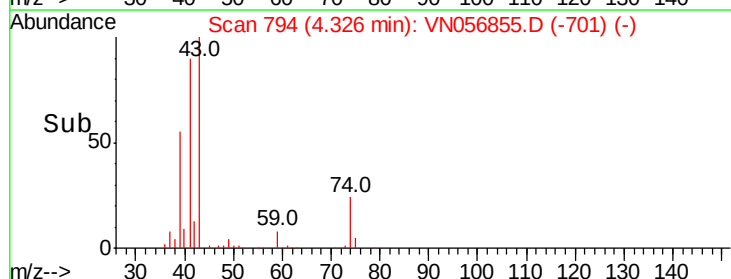
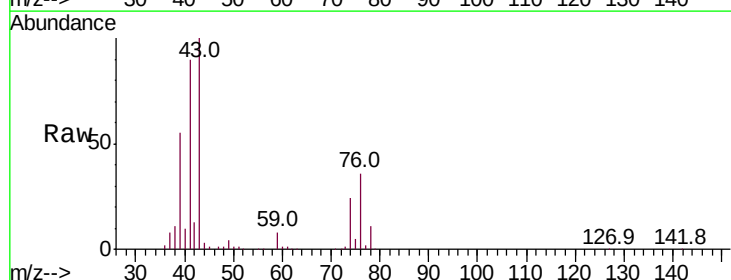
Acq: 22 Jul 2019 13:58

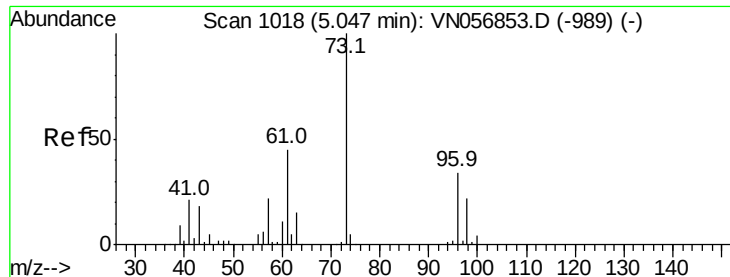
Tgt Ion: 43 Resp: 652532

Ion Ratio Lower Upper

43 100

74 24.0 19.0 28.4





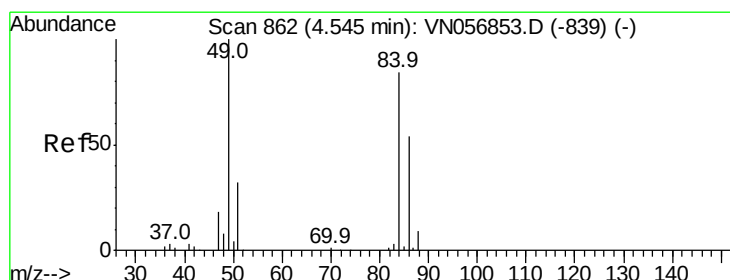
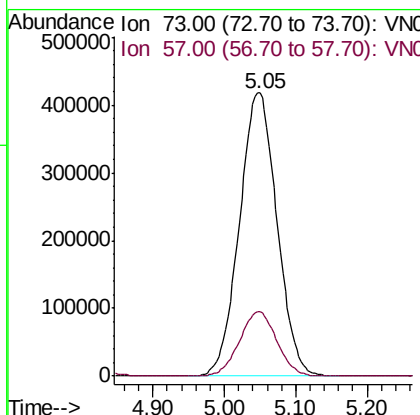
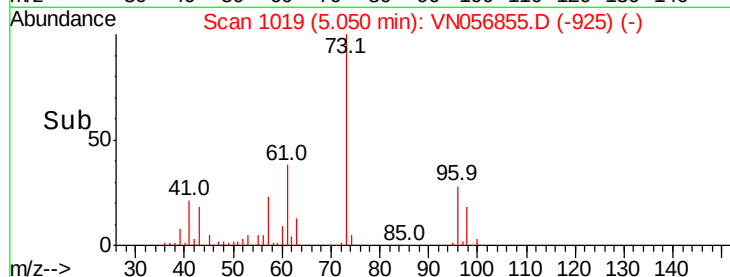
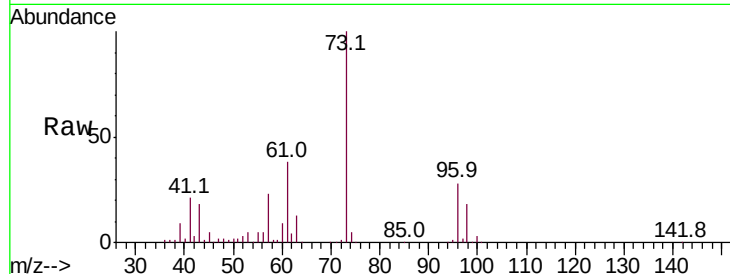
#19
Methyl tert-butyl Ether
Concen: 141.483 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. 0.00 min
Lab File: VN056855.D
Acq: 22 Jul 2019 13:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion: 73 Resp: 1531133
Ion Ratio Lower Upper
73 100
57 23.0 18.0 27.0

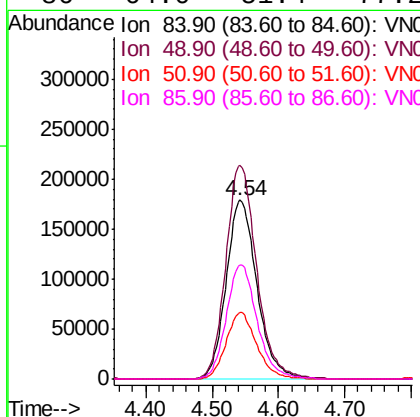
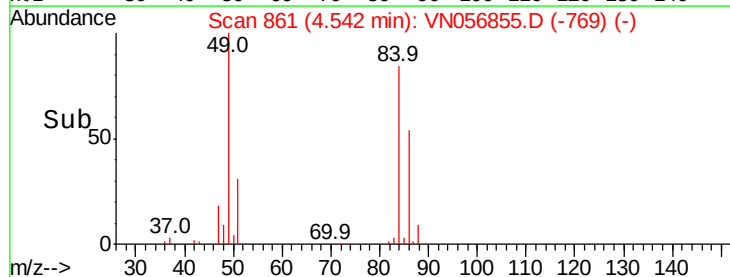
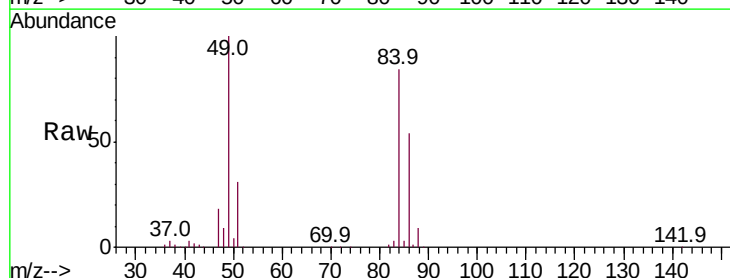
Manual Integrations
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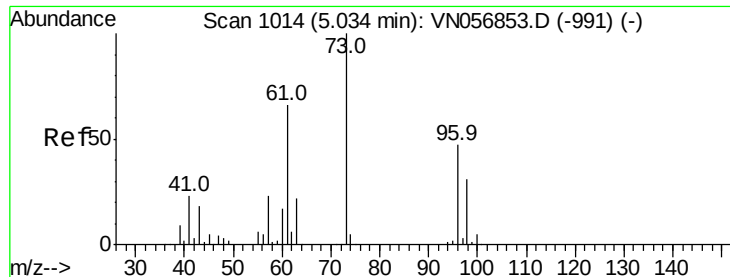
MMDadoda
7/25/2019 3:01:28 PM



#20
Methylene Chloride
Concen: 142.546 ug/l
RT: 4.54 min Scan# 861
Delta R.T. -0.00 min
Lab File: VN056855.D
Acq: 22 Jul 2019 13:58

Tgt Ion: 84 Resp: 579403
Ion Ratio Lower Upper
84 100
49 119.3 94.9 142.3
51 37.2 29.9 44.9
86 64.0 51.4 77.2





#21

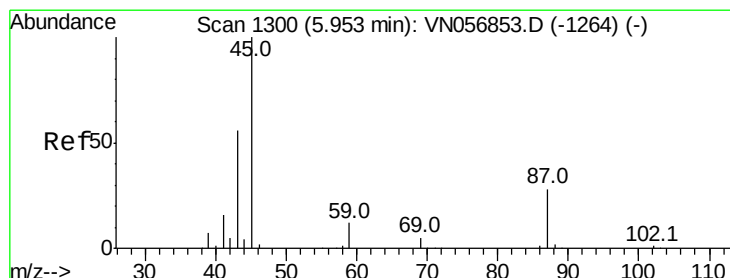
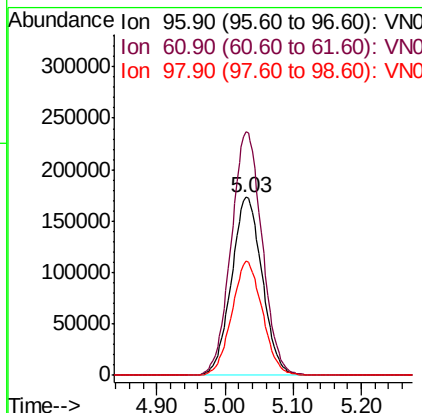
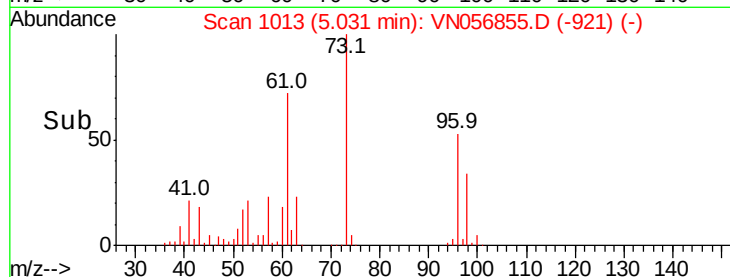
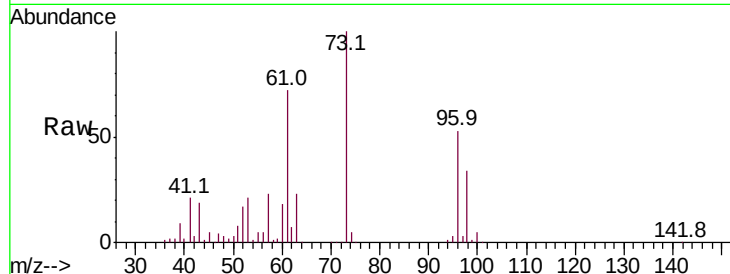
trans-1,2-Dichloroethene
Concen: 149.996 ug/l
RT: 5.03 min Scan# 1013
Delta R.T. -0.00 min
Lab File: VN056855.D
Acq: 22 Jul 2019 13:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
96	100		
61	136.6	112.8	169.2
98	63.8	53.3	79.9

Manual Integrations
APPROVED

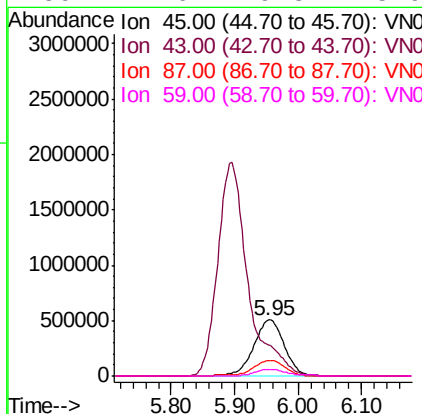
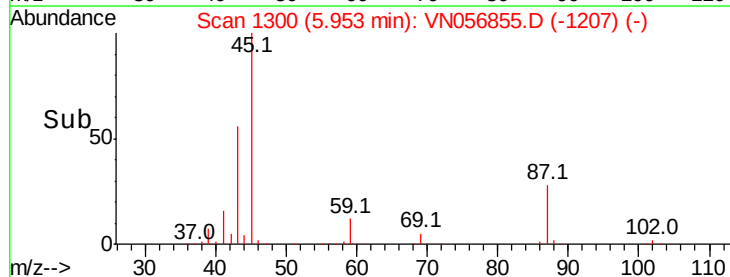
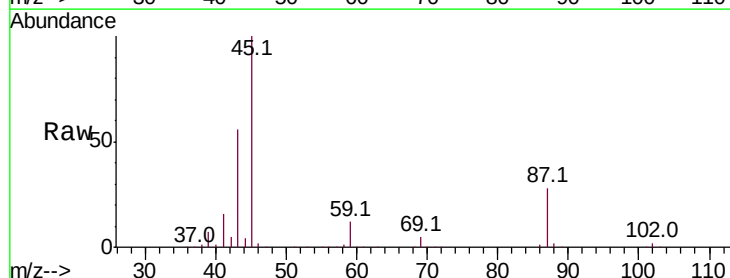
MMDadoda
7/25/2019 3:01:28 PM

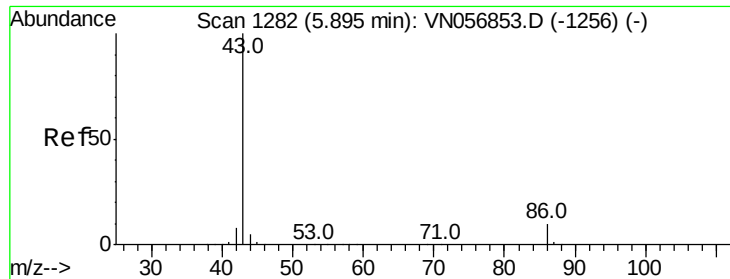


#22

Diisopropyl ether
Concen: 145.563 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. 0.00 min
Lab File: VN056855.D
Acq: 22 Jul 2019 13:58

Tgt Ion	Ratio	Lower	Upper
45	100		
43	55.1	45.5	68.3
87	27.8	22.7	34.1
59	11.6	9.3	13.9





#23

Vinyl Acetate

Concen: 691.688 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VN056855.D

Acq: 22 Jul 2019 13:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 43 Resp: 6392841

Ion Ratio Lower Upper

43 100

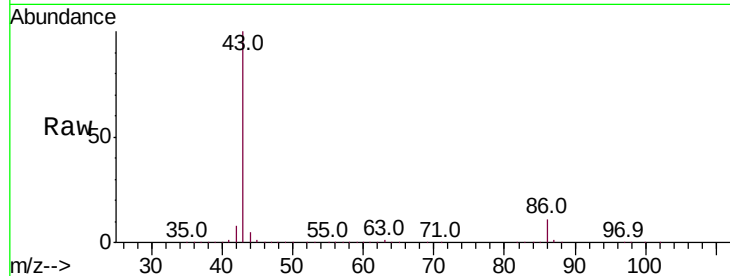
86 10.6 8.4 12.6

Manual Integrations

APPROVED

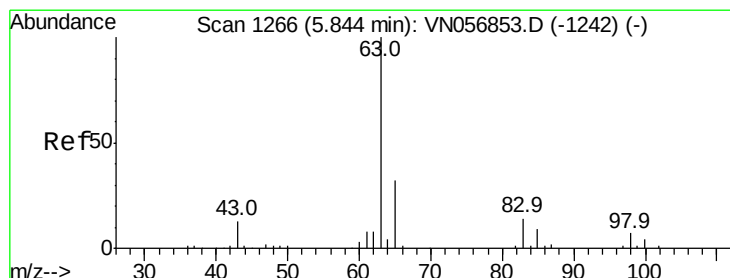
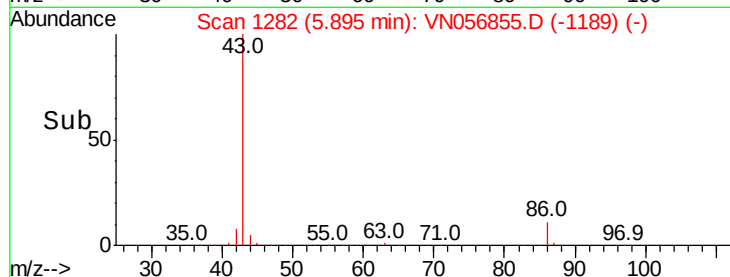
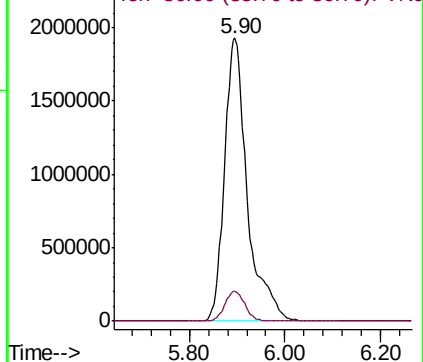
MMDadoda

7/25/2019 3:01:28 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 144.232 ug/l

RT: 5.84 min Scan# 1266

Delta R.T. 0.00 min

Lab File: VN056855.D

Acq: 22 Jul 2019 13:58

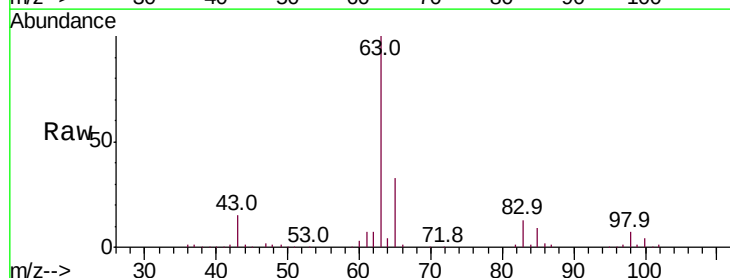
Tgt Ion: 63 Resp: 975826

Ion Ratio Lower Upper

63 100

98 6.7 3.3 9.9

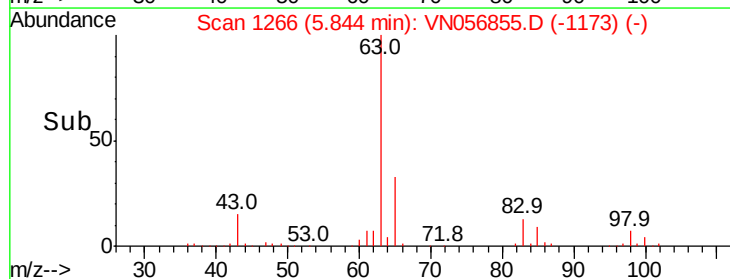
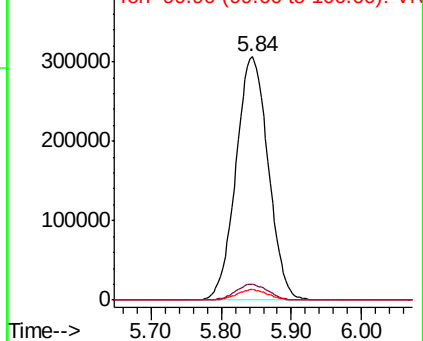
100 4.2 2.2 6.6

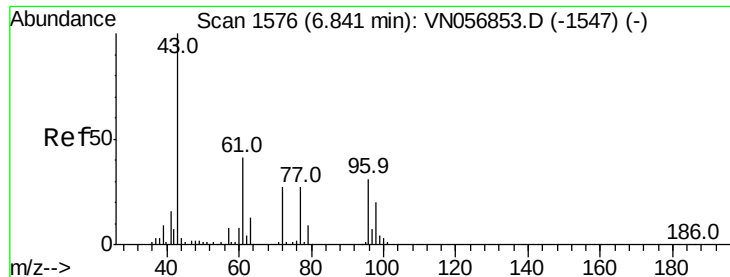


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





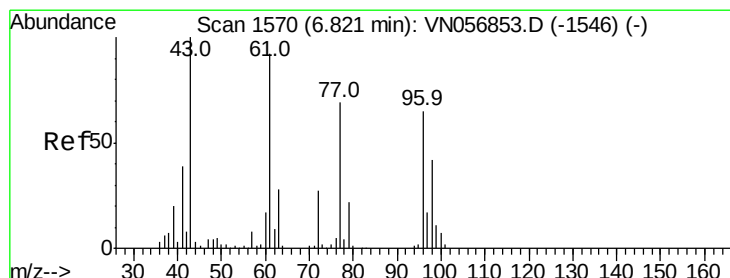
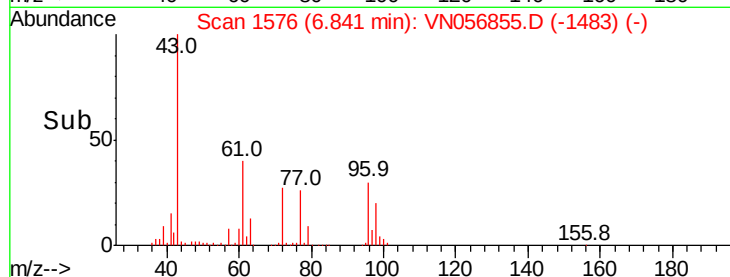
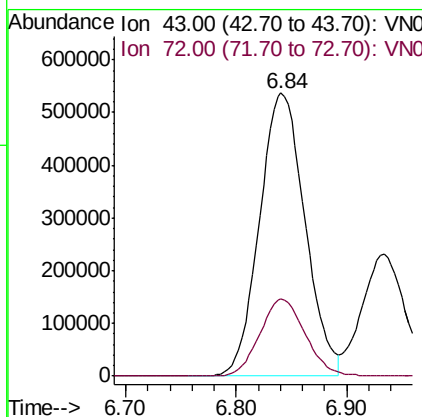
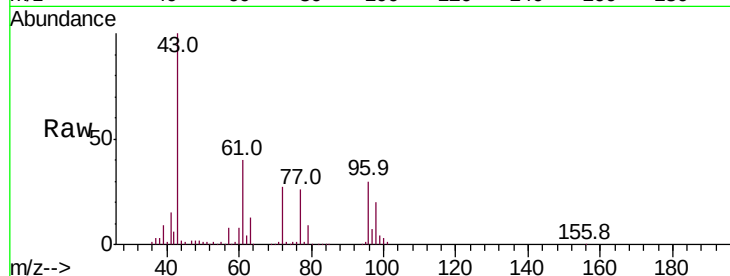
#25
2-Butanone
Concen: 590.870 ug/l
RT: 6.84 min Scan# 1576
Delta R.T. 0.00 min
Lab File: VN056855.D
Acq: 22 Jul 2019 13:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion: 43 Resp: 1533394
Ion Ratio Lower Upper
43 100
72 27.3 21.5 32.3

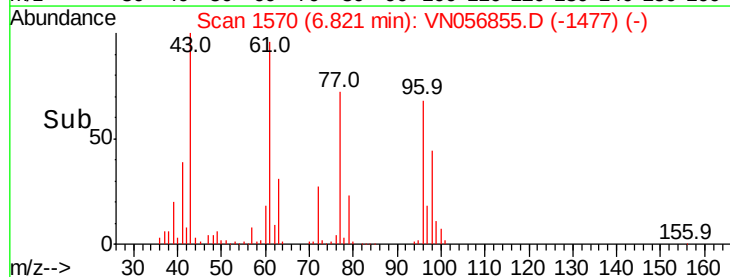
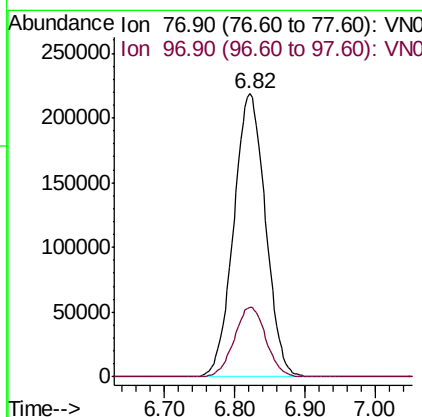
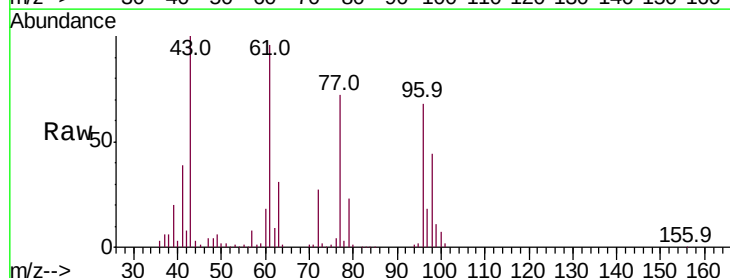
Manual Integrations
APPROVED

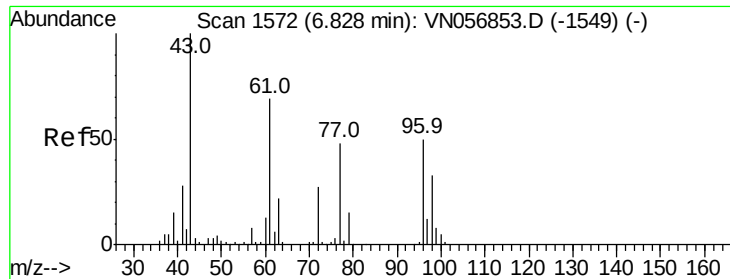
MMDadoda
7/25/2019 3:01:28 PM



#26
2,2-Dichloropropane
Concen: 142.283 ug/l
RT: 6.82 min Scan# 1570
Delta R.T. 0.00 min
Lab File: VN056855.D
Acq: 22 Jul 2019 13:58

Tgt Ion: 77 Resp: 686908
Ion Ratio Lower Upper
77 100
97 24.6 12.4 37.2





#27

cis-1,2-Dichloroethene

Concen: 149.013 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN056855.D

Acq: 22 Jul 2019 13:58

Instrument :

MSVOA_N

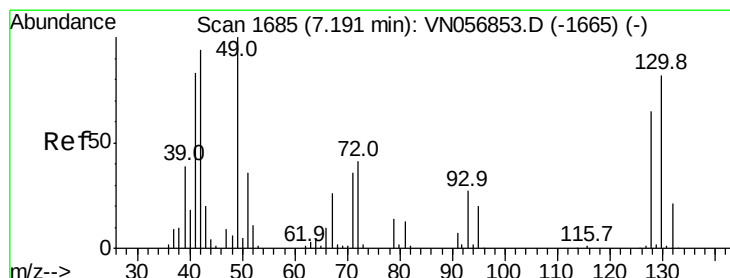
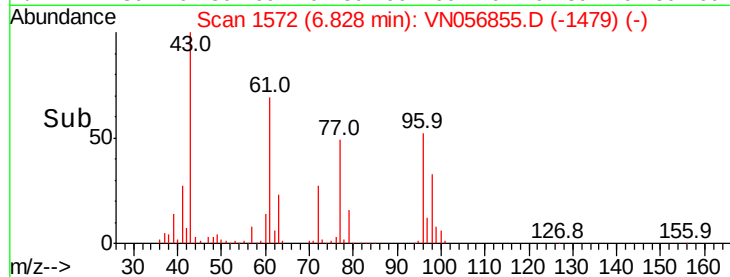
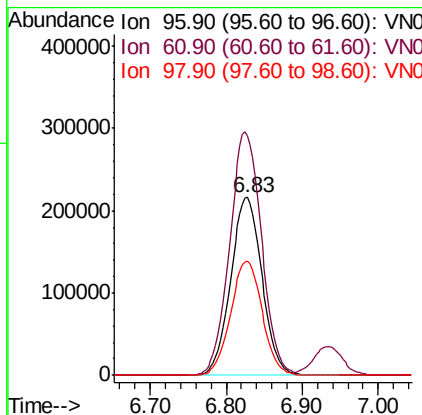
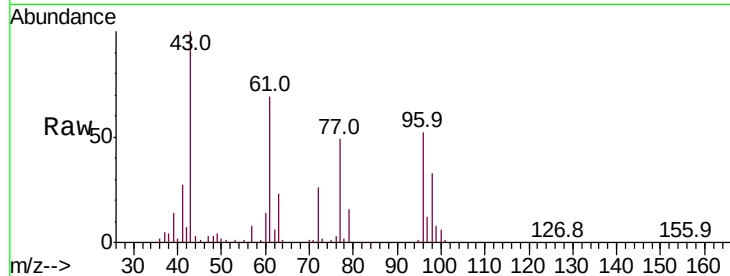
ClientSampleId :

VSTDIC150

Tot Ion:	96	Resp:	619051
Ion Ratio	Lower	Upper	
96	100		
61	139.0	0.0	281.6
98	64.8	0.0	132.0

Manual Integrations
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MMDadoda
7/25/2019 3:01:28 PM



#28

Bromochloromethane

Concen: 134.543 ug/l

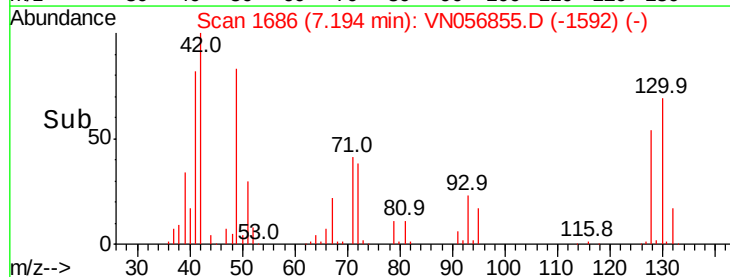
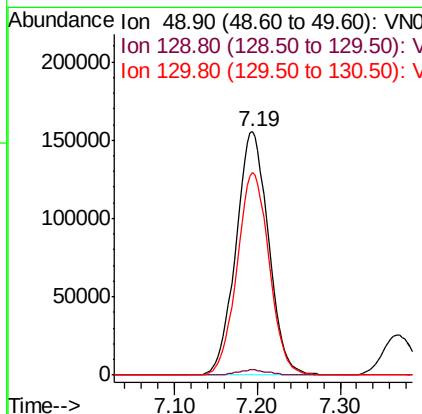
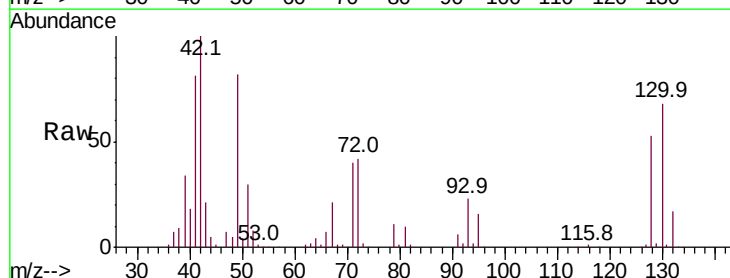
RT: 7.19 min Scan# 1686

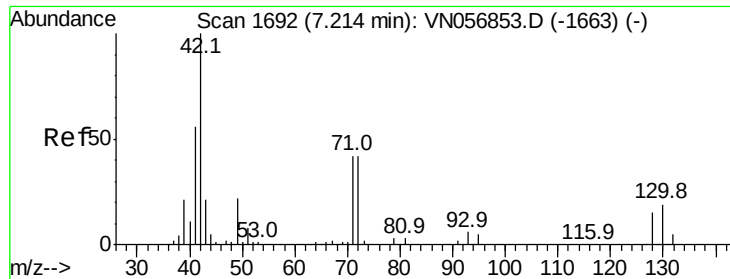
Delta R.T. 0.00 min

Lab File: VN056855.D

Acq: 22 Jul 2019 13:58

Tgt Ion:	49	Resp:	424780
Ion Ratio	Lower	Upper	
49	100		
129	2.1	0.0	3.8
130	82.2	65.0	97.6





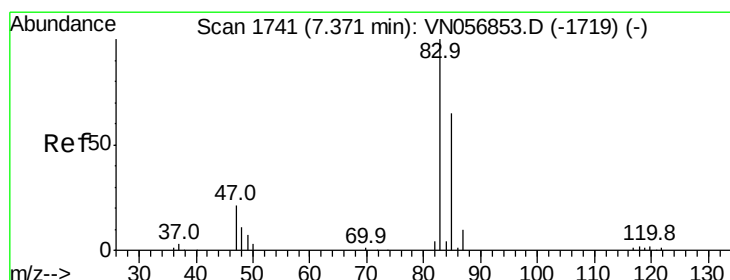
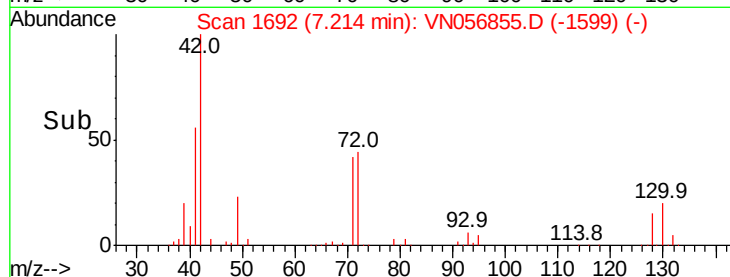
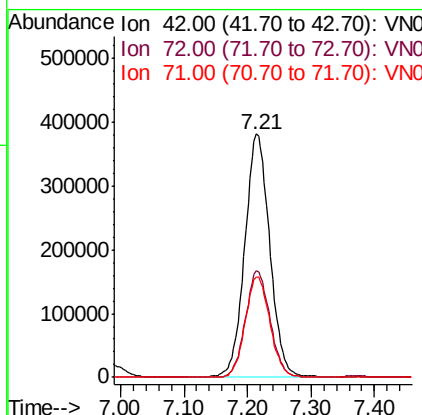
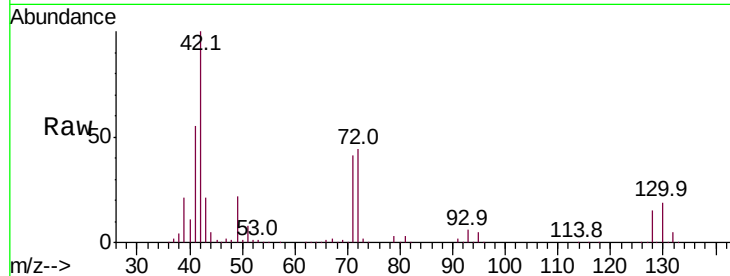
#29
Tetrahydrofuran
Concen: 610.418 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VN056855.D
Acq: 22 Jul 2019 13:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion: 42 Resp: 1040736
Ion Ratio Lower Upper
42 100
72 43.4 34.2 51.2
71 41.0 32.7 49.1

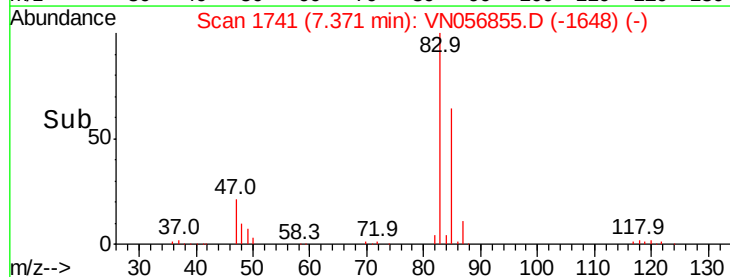
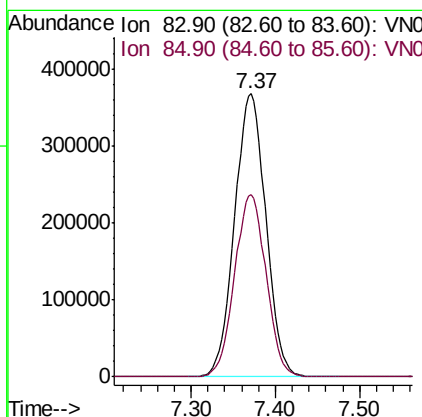
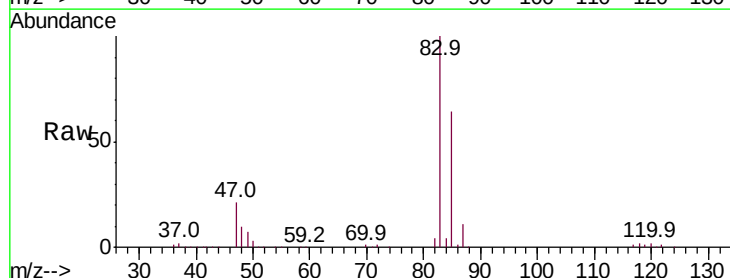
Manual Integrations
APPROVED

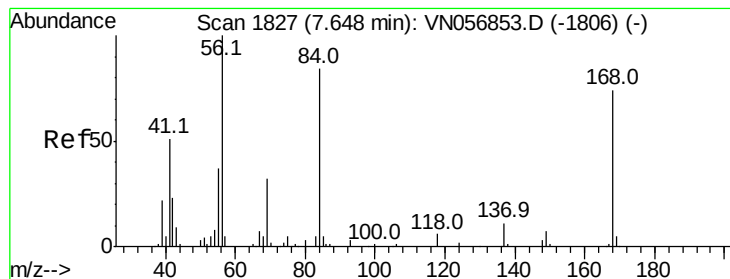
MMDadoda
7/25/2019 3:01:28 PM



#30
Chloroform
Concen: 140.393 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN056855.D
Acq: 22 Jul 2019 13:58

Tgt Ion: 83 Resp: 951283
Ion Ratio Lower Upper
83 100
85 64.5 52.3 78.5





#31

Cyclohexane

Concen: 143.740 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN056855.D

Acq: 22 Jul 2019 13:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 56 Resp: 926792

Ion Ratio Lower Upper

56 100

69 30.8 25.5 38.3

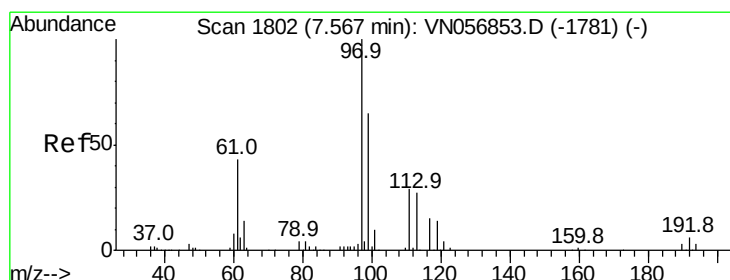
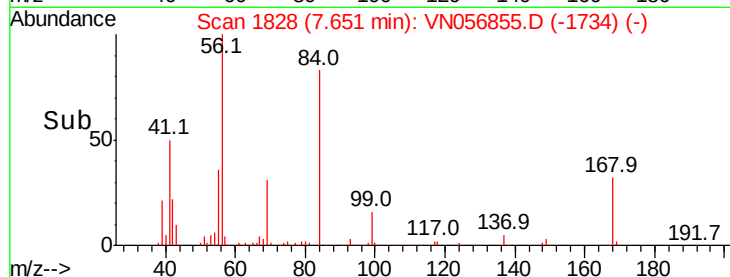
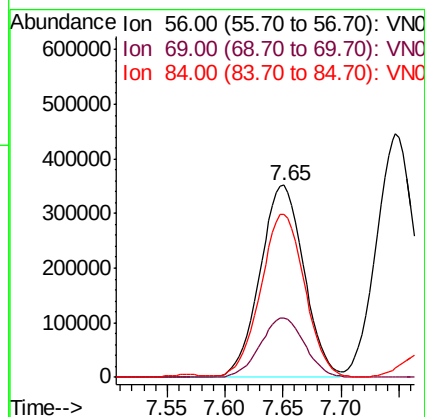
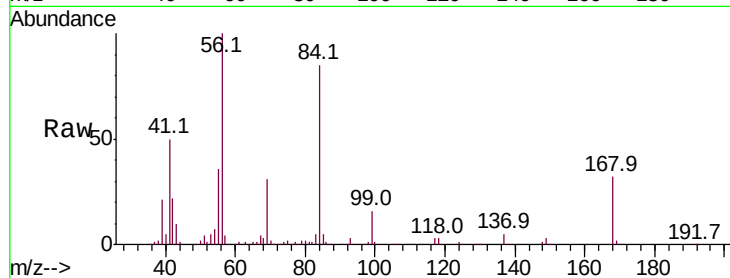
84 83.9 67.3 100.9

Manual Integrations

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#32

1,1,1-Trichloroethane

Concen: 150.796 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VN056855.D

Acq: 22 Jul 2019 13:58

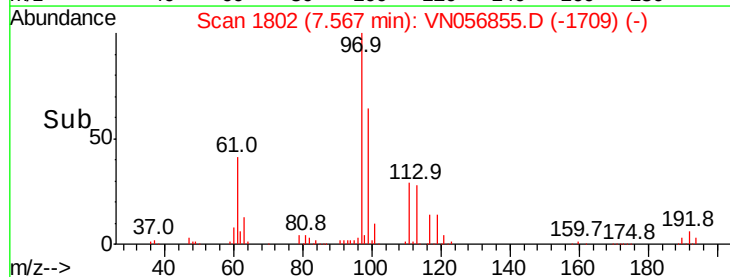
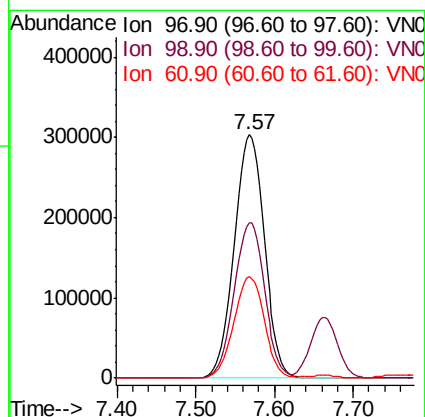
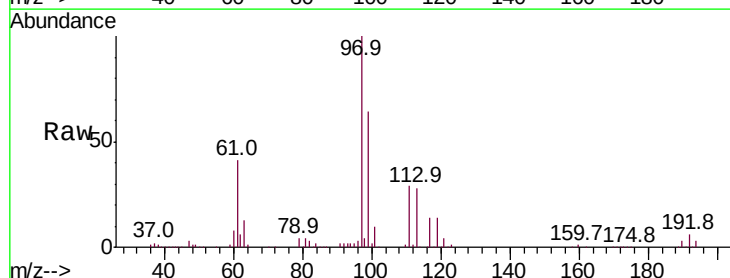
Tgt Ion: 97 Resp: 808879

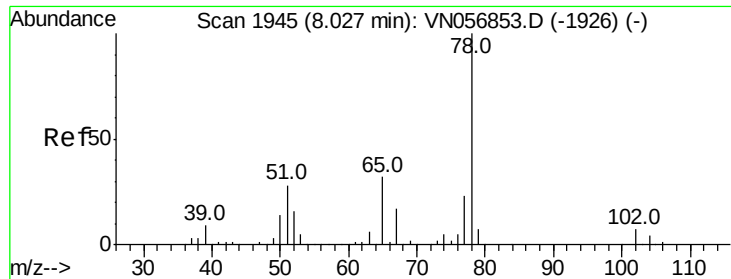
Ion Ratio Lower Upper

97 100

99 64.6 52.1 78.1

61 42.0 34.0 51.0





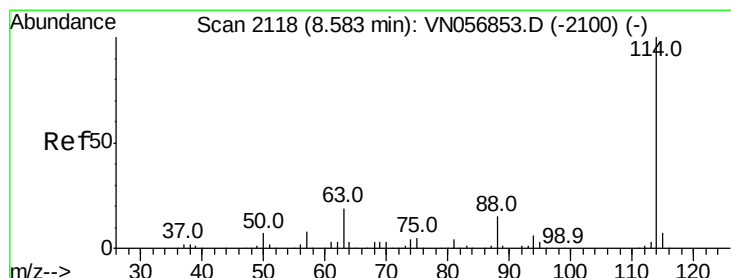
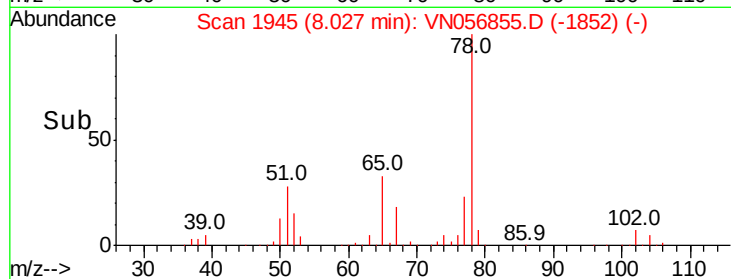
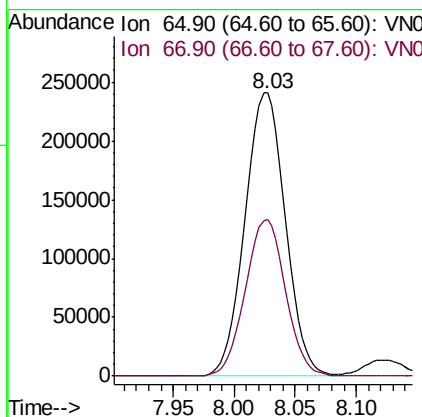
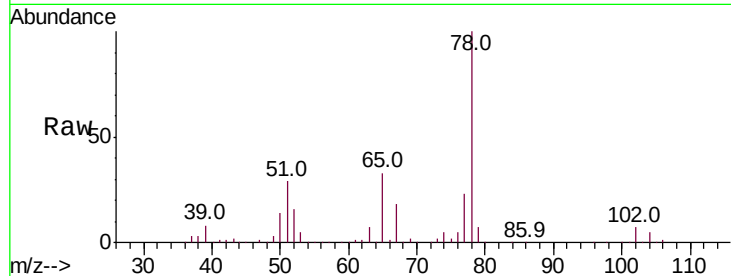
#33
 1,2-Dichloroethane-d4
 Concen: 140.109 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN056855.D
 Acq: 22 Jul 2019 13:58

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Resp	Lower	Upper
65	100	552715		
67	54.9	0.0	108.6	

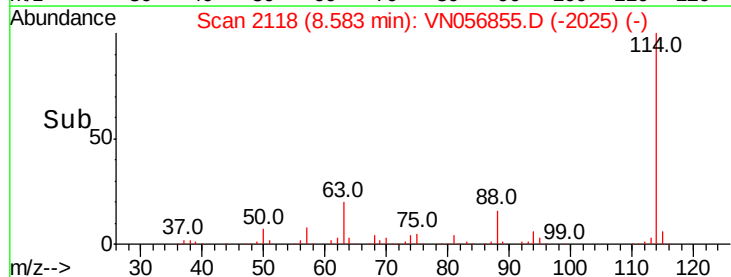
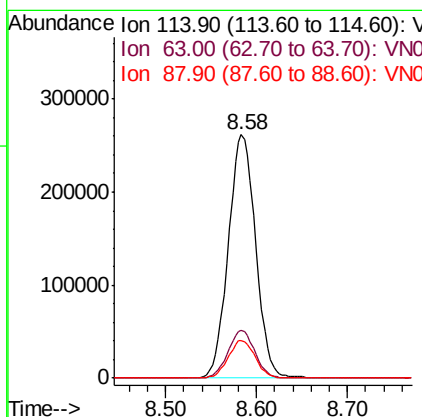
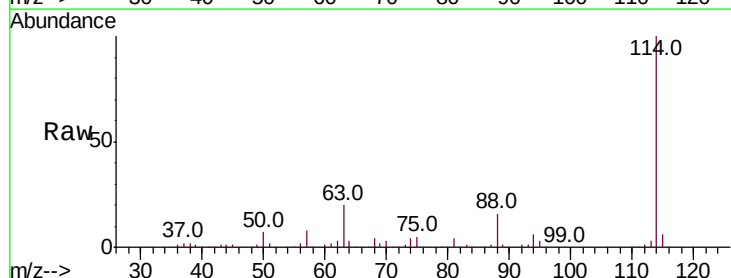
Manual Integrations
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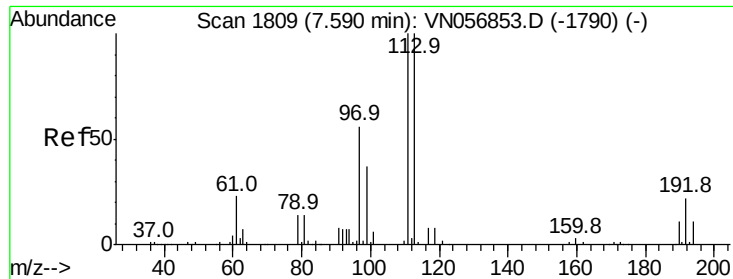
MMDadoda
 7/25/2019 3:01:28 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN056855.D
 Acq: 22 Jul 2019 13:58

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	545202		
63	19.5	0.0	37.8	
88	15.6	0.0	31.0	





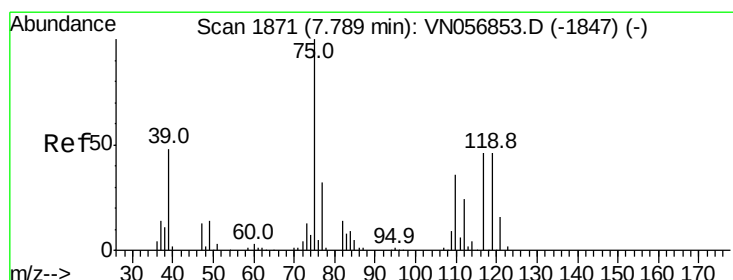
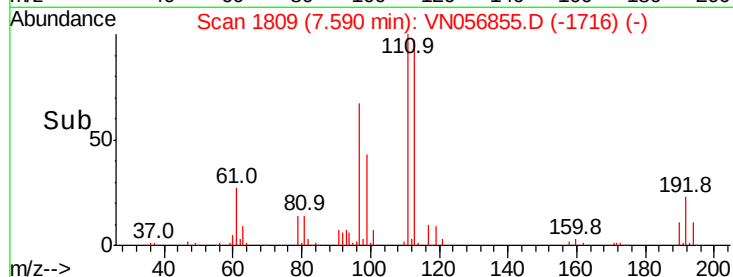
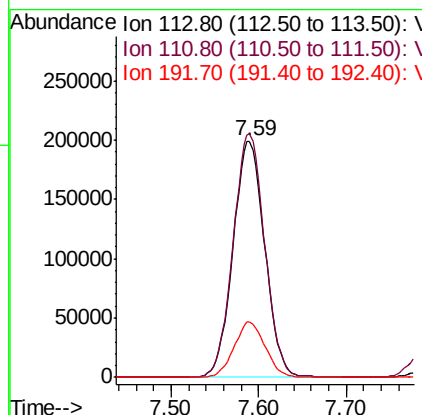
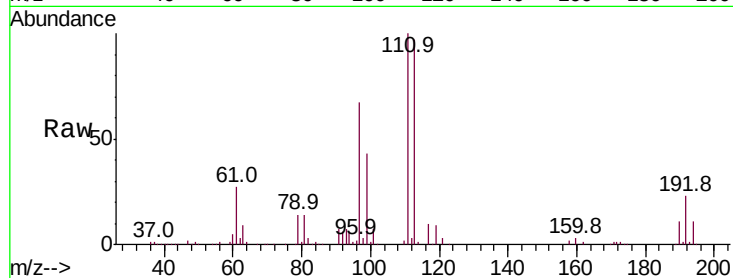
#35
 Dibromofluoromethane
 Concen: 146.848 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN056855.D
 Acq: 22 Jul 2019 13:58

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Resp	Lower	Upper
113	100	499880		
111	103.3	81.9	122.9	
192	22.8	18.5	27.7	

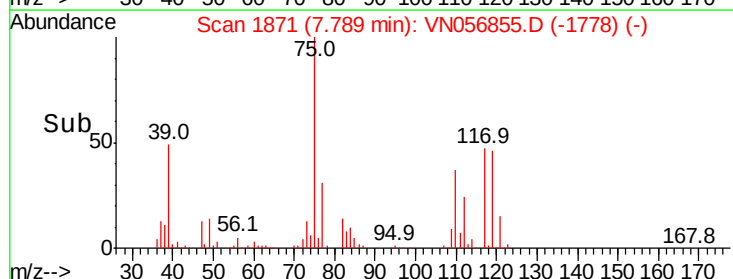
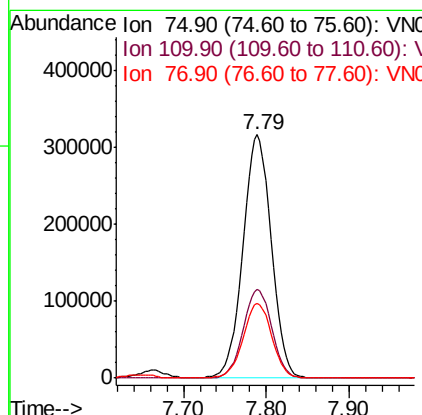
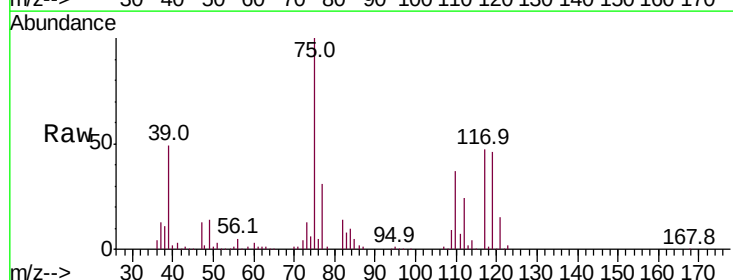
Manual Integrations
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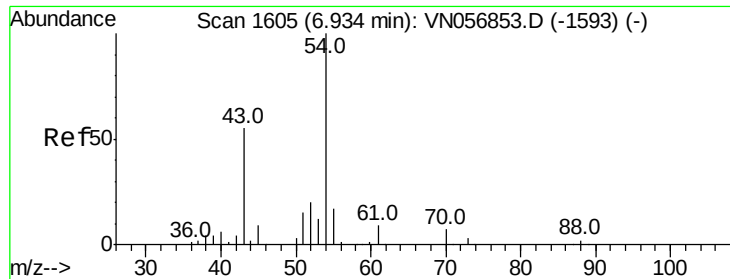
MMDadoda
 7/25/2019 3:01:28 PM



#36
 1,1-Dichloropropene
 Concen: 146.751 ug/l
 RT: 7.79 min Scan# 1871
 Delta R.T. 0.00 min
 Lab File: VN056855.D
 Acq: 22 Jul 2019 13:58

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	750652		
110	36.7	17.9	53.7	
77	31.3	25.0	37.6	





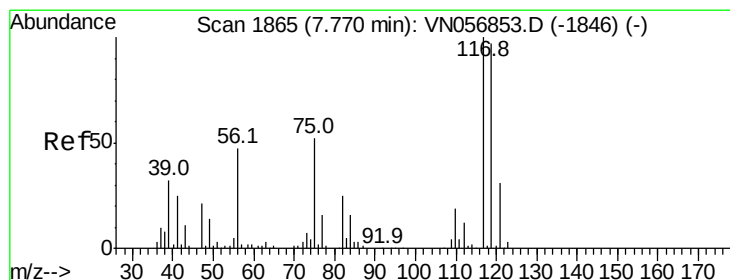
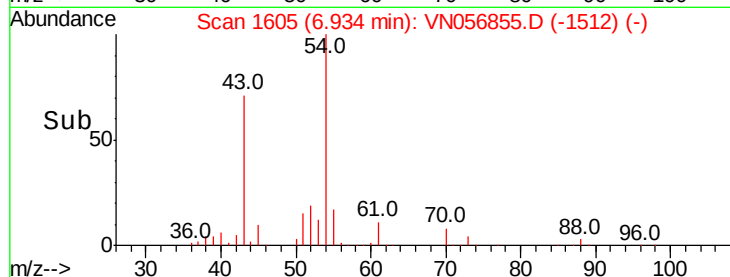
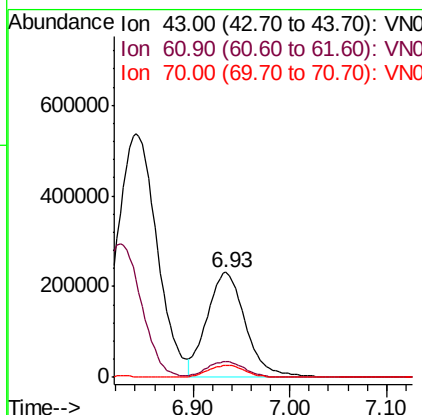
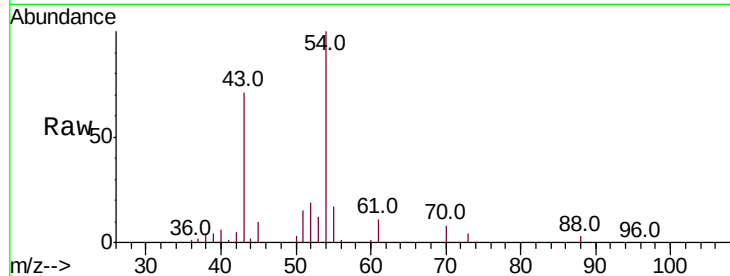
#37
Ethyl Acetate
Concen: 130.221 ug/l
RT: 6.93 min Scan# 1605
Delta R.T. 0.00 min
Lab File: VN056855.D
Acq: 22 Jul 2019 13:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.9	11.8	17.8
70	11.2	8.6	13.0

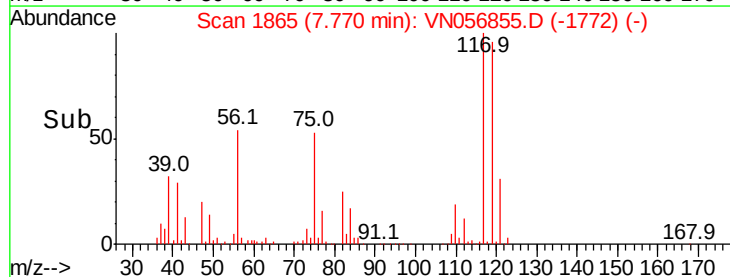
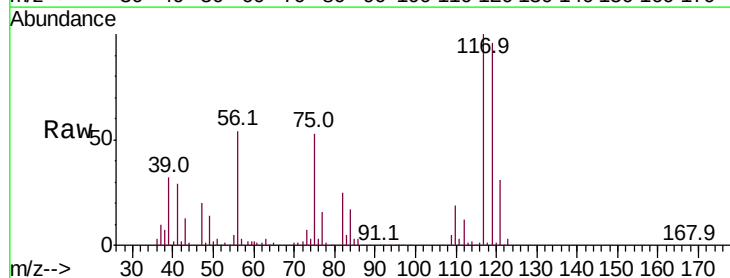
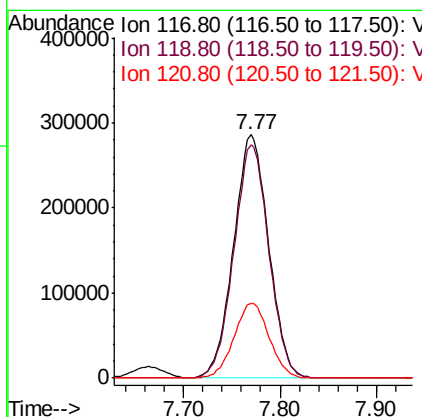
Manual Integrations
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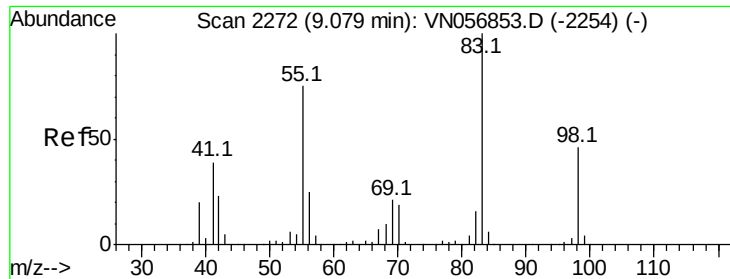
MMDadoda
7/25/2019 3:01:28 PM



#38
Carbon Tetrachloride
Concen: 150.223 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. 0.00 min
Lab File: VN056855.D
Acq: 22 Jul 2019 13:58

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.0	77.2	115.8
121	30.8	24.5	36.7





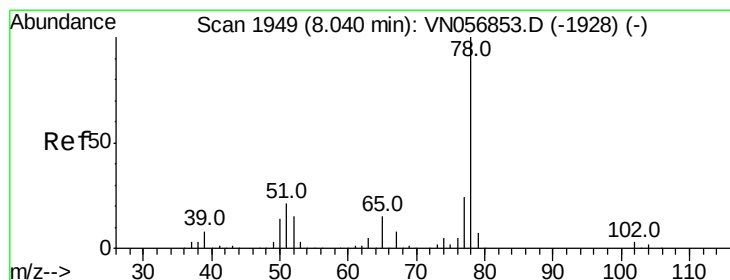
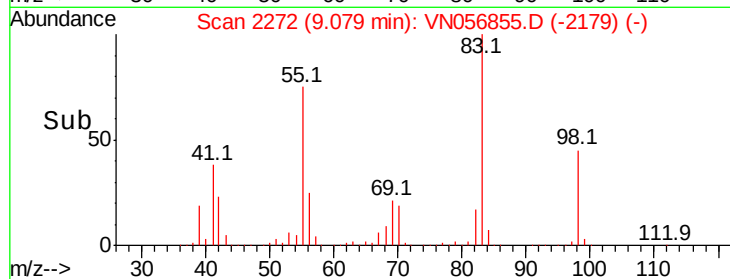
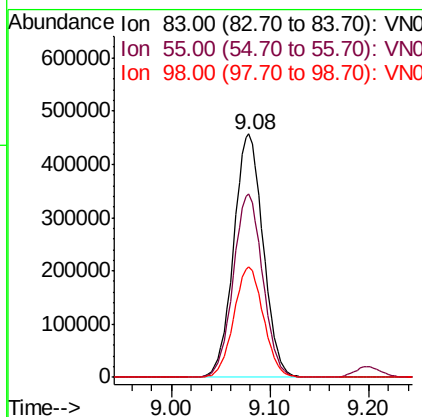
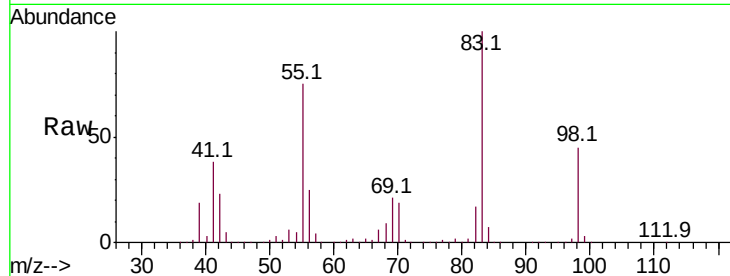
#39
Methylvlcyclohexane
Concen: 150.262 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VN056855.D
Acq: 22 Jul 2019 13:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
55	75.1	59.8	89.8	
98	45.3	37.1	55.7	

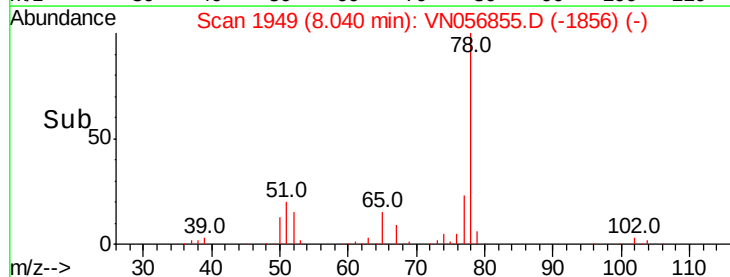
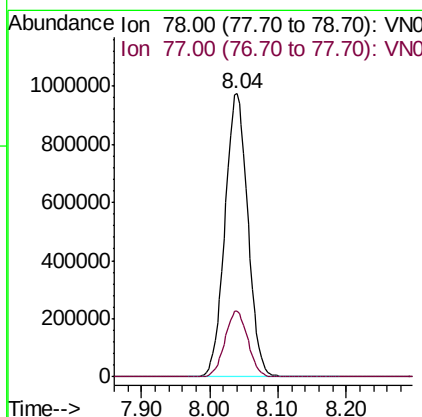
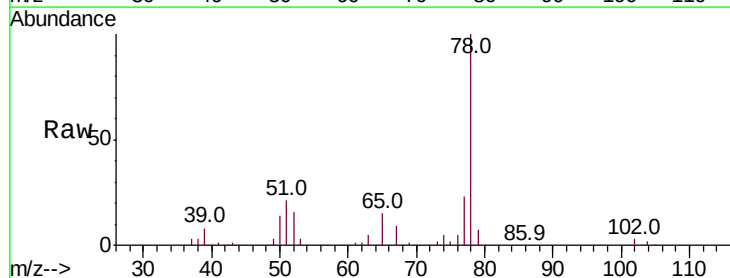
Manual Integrations
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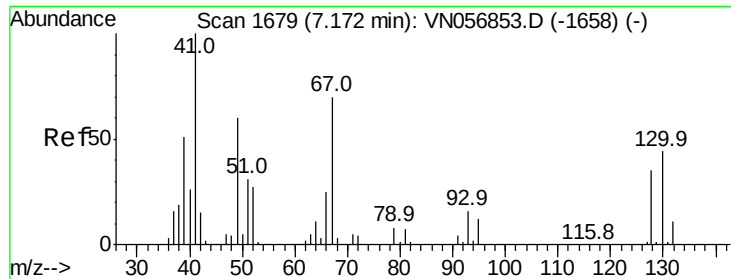
MMDadoda
7/25/2019 3:01:28 PM



#40
Benzene
Concen: 144.817 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN056855.D
Acq: 22 Jul 2019 13:58

Tgt Ion	Ratio	Resp	Lower	Upper
78	100			
77	23.3	19.1	28.7	





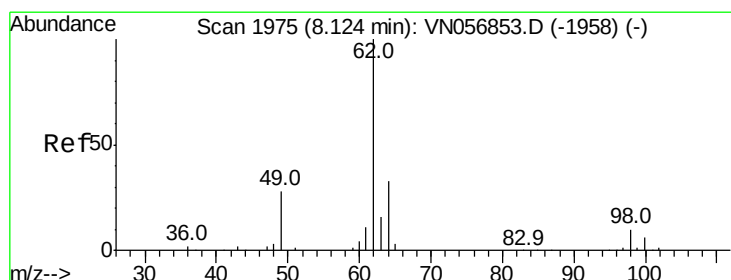
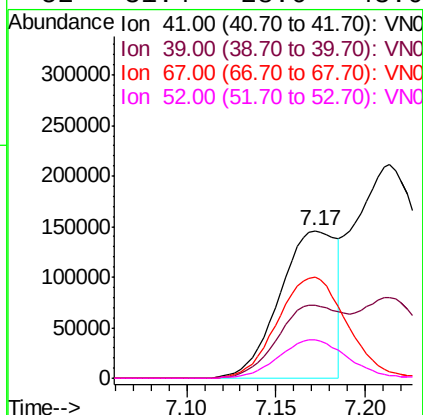
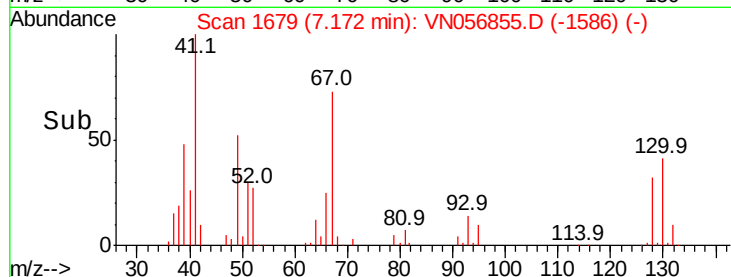
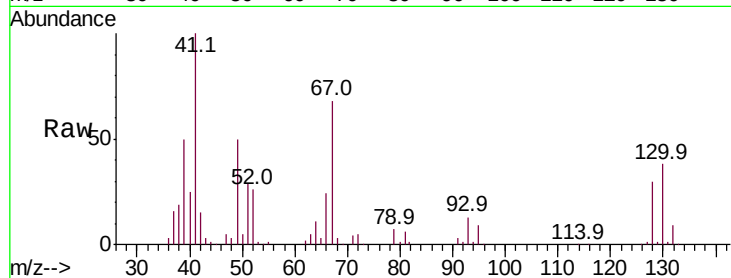
#41
Methacrylonitrile
Concen: 149.011 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. 0.00 min
Lab File: VN056855.D
Acq: 22 Jul 2019 13:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tot Ion	41	Resp	323096
Ion	Ratio	Lower	Upper
41	100		
39	58.2	44.0	66.0
67	83.8	73.5	110.3
52	31.4	28.6	43.0

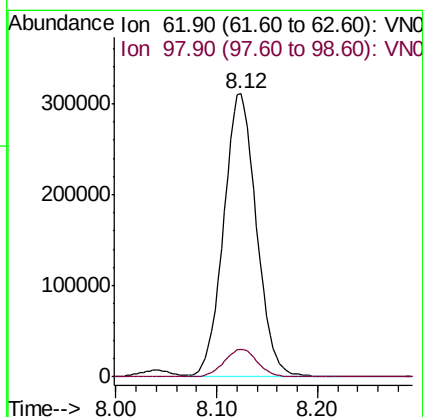
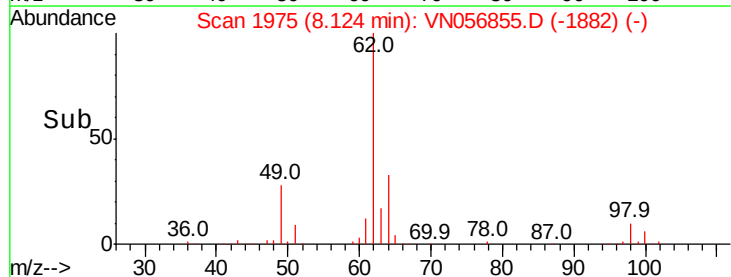
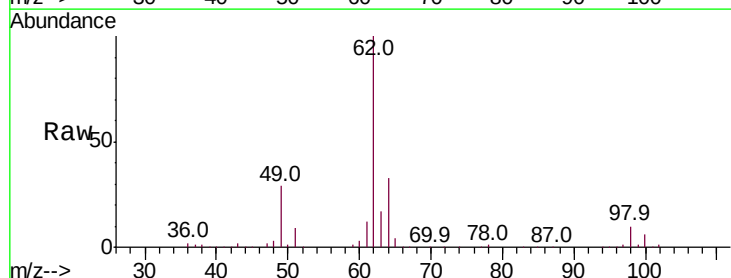
Manual Integrations
APPROVED

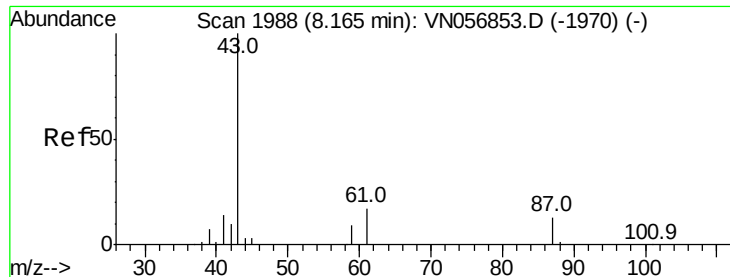
MMDadoda
7/25/2019 3:01:28 PM



#42
1,2-Dichloroethane
Concen: 142.242 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN056855.D
Acq: 22 Jul 2019 13:58

Tgt Ion	62	Resp	702008
Ion	Ratio	Lower	Upper
62	100		
98	10.0	0.0	19.4





#43

Isopropyl Acetate

Concen: 138.491 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN056855.D

Acq: 22 Jul 2019 13:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 43 Resp: 1068525

Ion Ratio Lower Upper

43 100

61 22.1 17.8 26.6

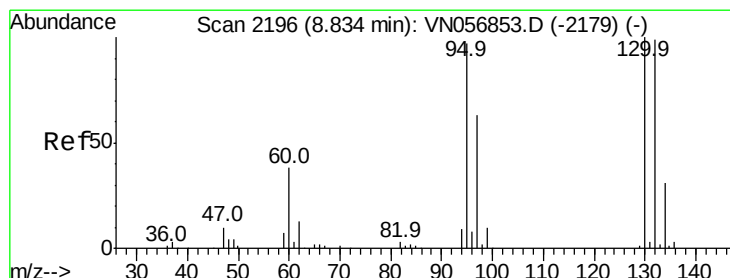
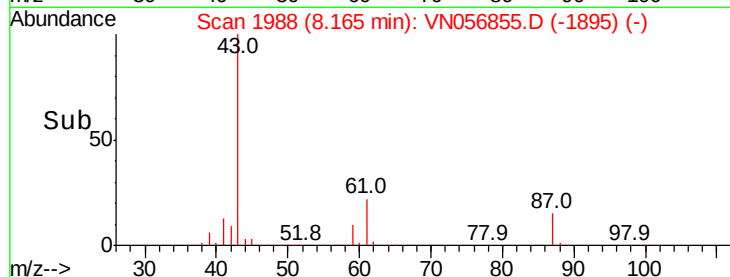
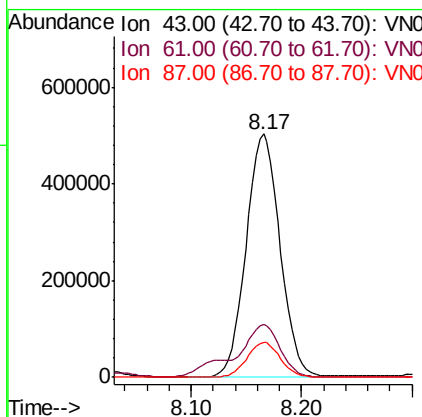
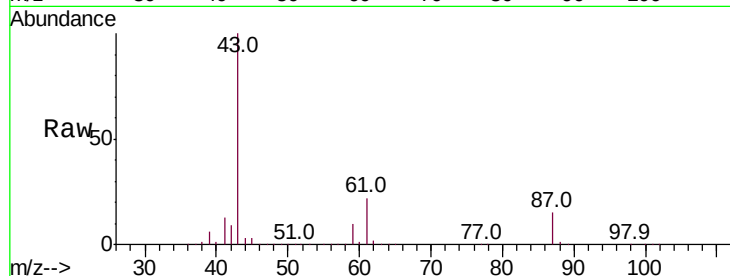
87 14.3 11.0 16.4

Manual Integrations

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MMDadoda

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#44

Trichloroethene

Concen: 144.957 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. 0.00 min

Lab File: VN056855.D

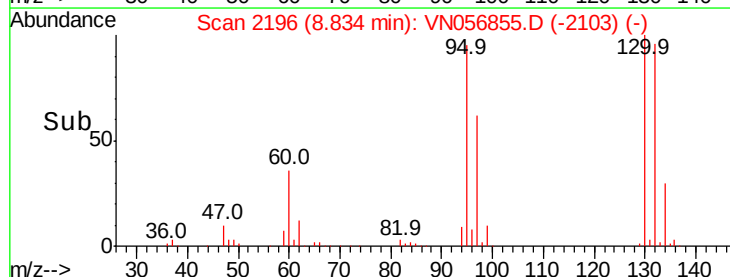
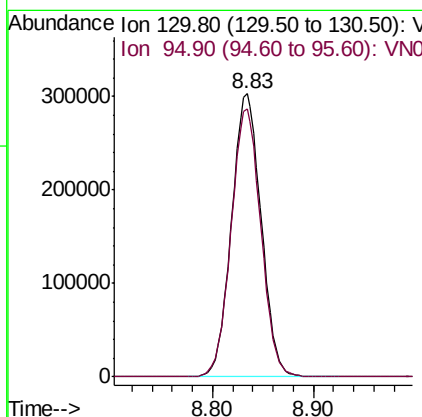
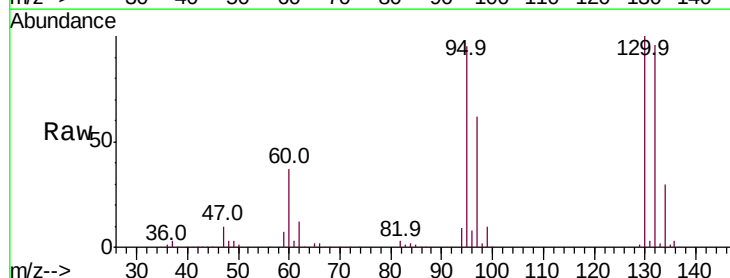
Acq: 22 Jul 2019 13:58

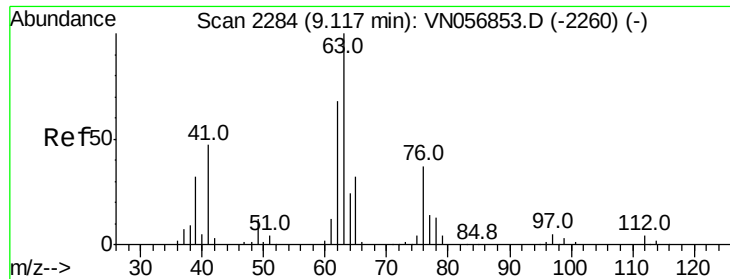
Tgt Ion:130 Resp: 617424

Ion Ratio Lower Upper

130 100

95 94.7 0.0 194.0





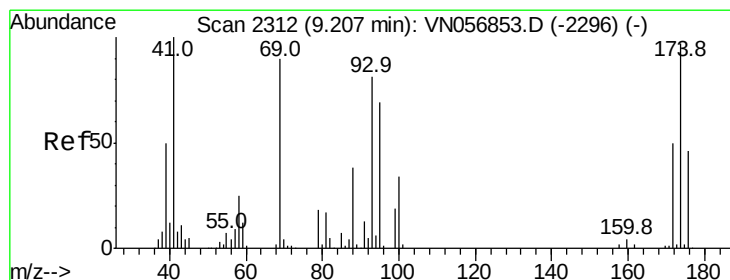
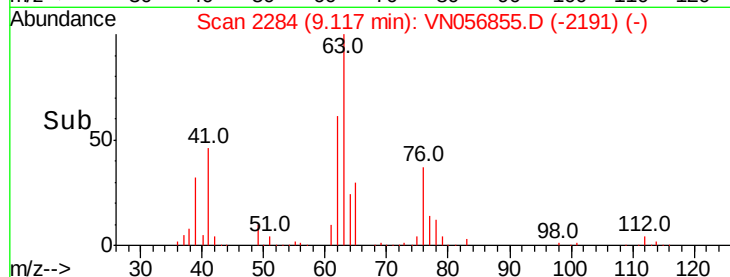
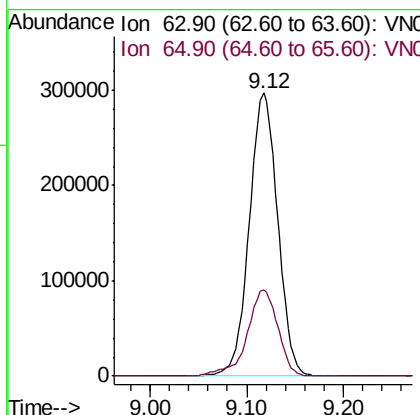
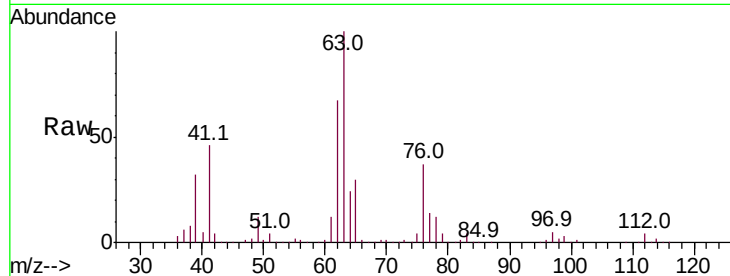
#45
 1,2-Dichloropropane
 Concen: 145.882 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. 0.00 min
 Lab File: VN056855.D
 Acq: 22 Jul 2019 13:58

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
63	100		
65	30.4	25.4	38.0

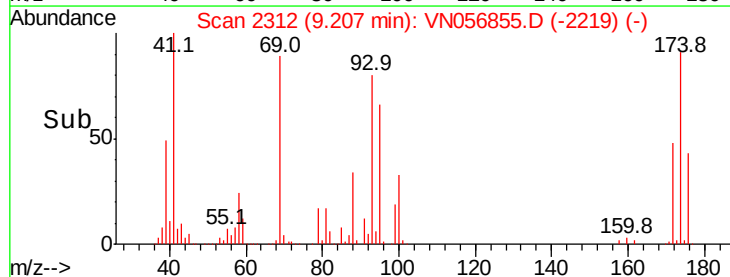
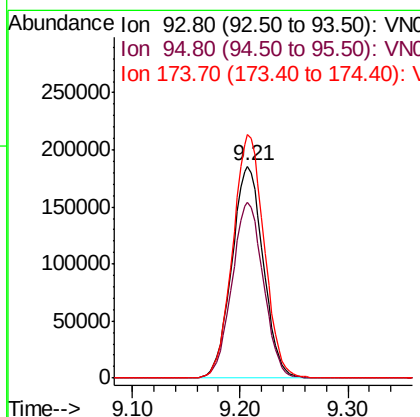
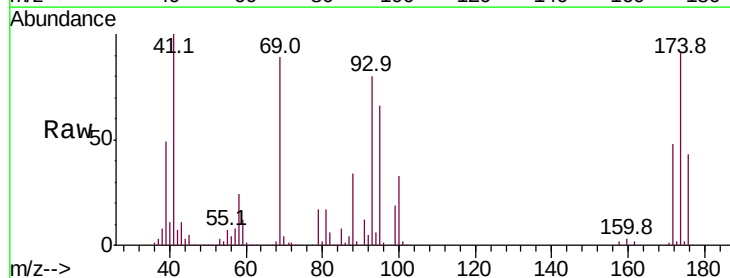
Manual Integrations
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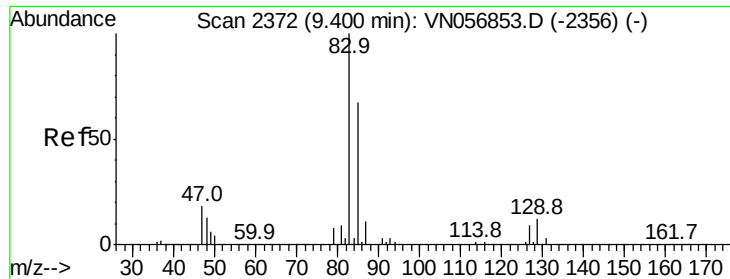
MMDadoda
 7/25/2019 3:01:28 PM



#46
 Dibromomethane
 Concen: 146.862 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. 0.00 min
 Lab File: VN056855.D
 Acq: 22 Jul 2019 13:58

Tgt Ion	Ratio	Lower	Upper
93	100		
95	83.1	67.4	101.0
174	114.8	92.9	139.3





#47

Bromodichloromethane

Concen: 153.262 ug/l

RT: 9.40 min Scan# 2372

Delta R.T. 0.00 min

Lab File: VN056855.D

Acq: 22 Jul 2019 13:58

Instrument :

MSVOA_N

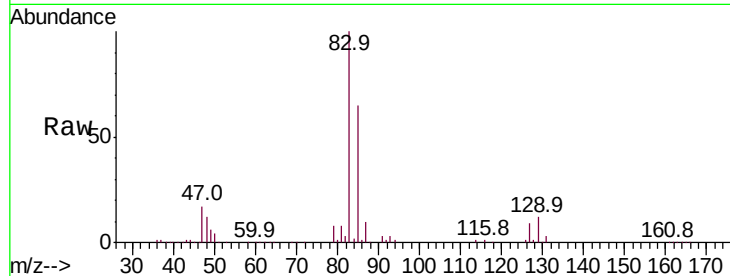
ClientSampleId :

VSTDIC150

Tot Ion:	83	Resp:	749139
Ion Ratio	Lower	Upper	
83	100		
85	64.5	53.4	80.2
127	9.0	7.2	10.8

Manual Integrations
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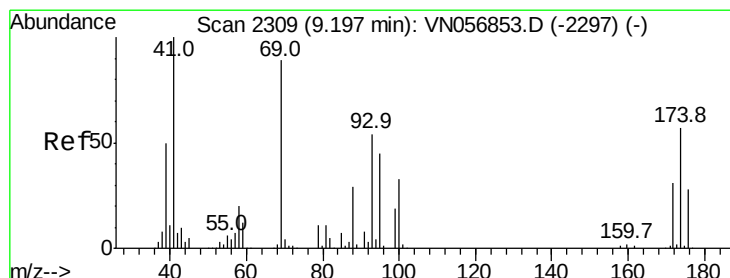
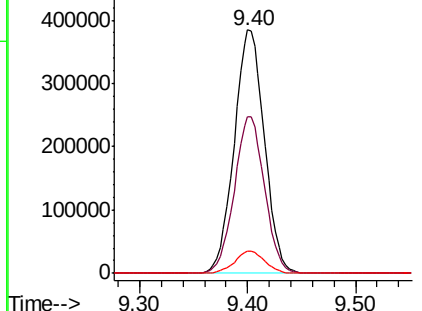
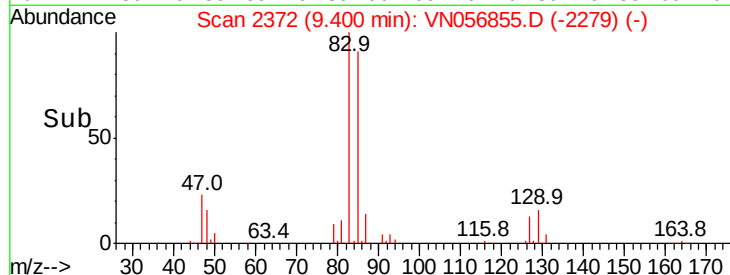
MMDadoda
7/25/2019 3:01:28 PM



Abundance Ion 82.90 (82.60 to 83.60): VN056855.D (-2279) (-)

Ion 84.90 (84.60 to 85.60): VN056855.D (-2279) (-)

Ion 126.80 (126.50 to 127.50): VN056855.D (-2279) (-)



#48

Methyl methacrylate

Concen: 141.675 ug/l

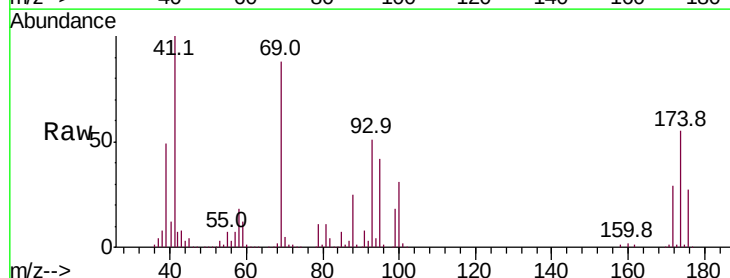
RT: 9.20 min Scan# 2309

Delta R.T. 0.00 min

Lab File: VN056855.D

Acq: 22 Jul 2019 13:58

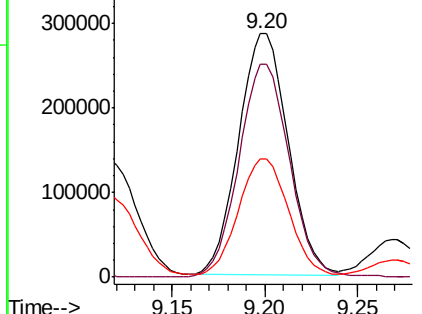
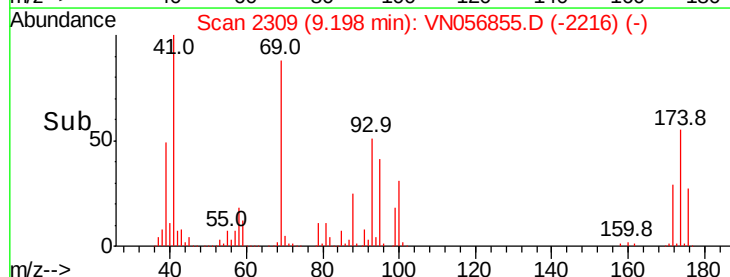
Tgt Ion:	41	Resp:	531579
Ion Ratio	Lower	Upper	
41	100		
69	90.4	71.1	106.7
39	50.2	40.6	60.8

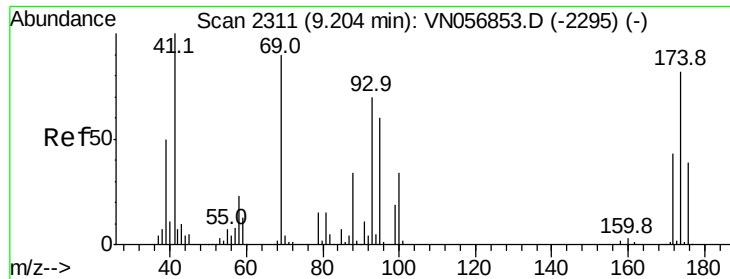


Abundance Ion 41.00 (40.70 to 41.70): VN056855.D (-2216) (-)

Ion 69.00 (68.70 to 69.70): VN056855.D (-2216) (-)

Ion 39.00 (38.70 to 39.70): VN056855.D (-2216) (-)





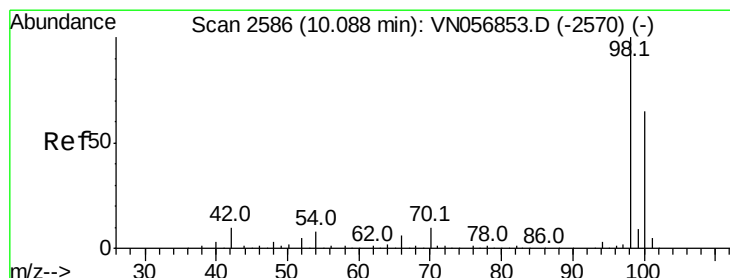
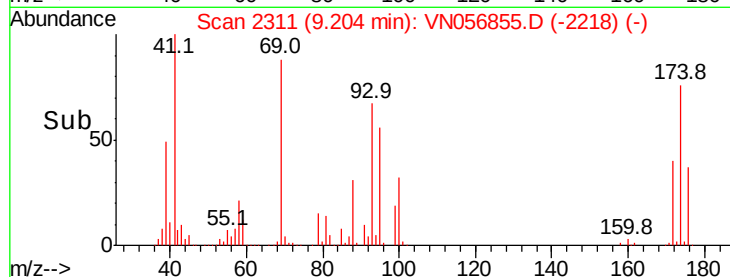
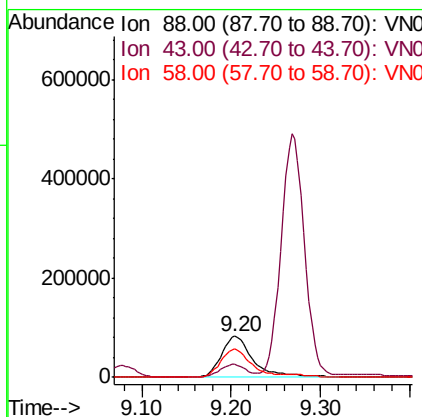
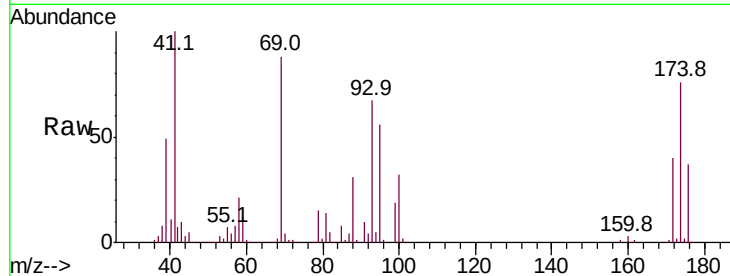
#49
 1,4-Dioxane
 Concen: 2667.754 ug/l
 RT: 9.20 min Scan# 2311
 Delta R.T. 0.00 min
 Lab File: VN056855.D
 Acq: 22 Jul 2019 13:58

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion	88	Resp	206829
Ion	Ratio	Lower	Upper
88	100		
43	25.7	21.4	32.2
58	65.2	55.7	83.5

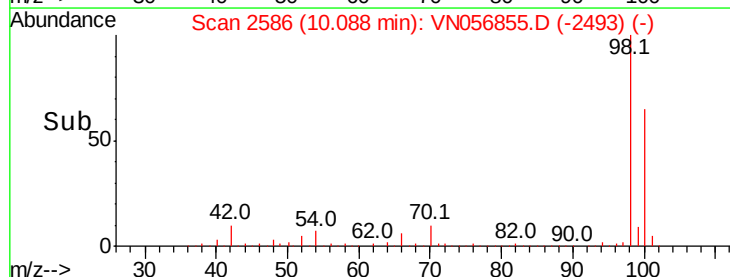
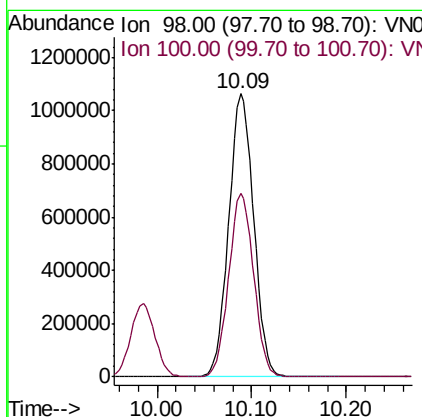
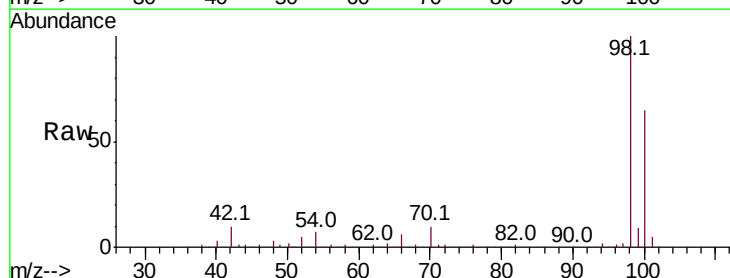
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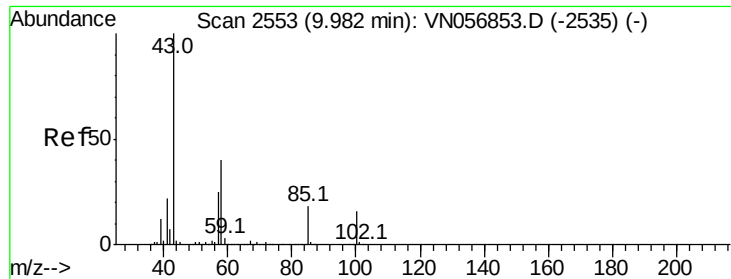
MMDadoda
 7/25/2019 3:01:28 PM



#50
 Toluene-d8
 Concen: 148.513 ug/l
 RT: 10.09 min Scan# 2586
 Delta R.T. 0.00 min
 Lab File: VN056855.D
 Acq: 22 Jul 2019 13:58

Tgt Ion	98	Resp	1950595
Ion	Ratio	Lower	Upper
98	100		
100	64.6	51.5	77.3





#51

4-Methyl-2-Pentanone

Concen: 638.255 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN056855.D

Acq: 22 Jul 2019 13:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 43 Resp: 3163906

Ion Ratio Lower Upper

43 100

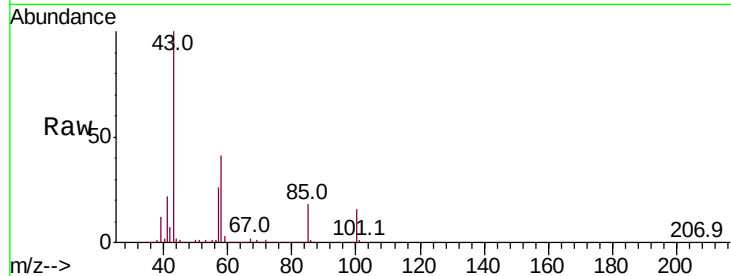
58 40.6 32.4 48.6

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

2000000

1500000

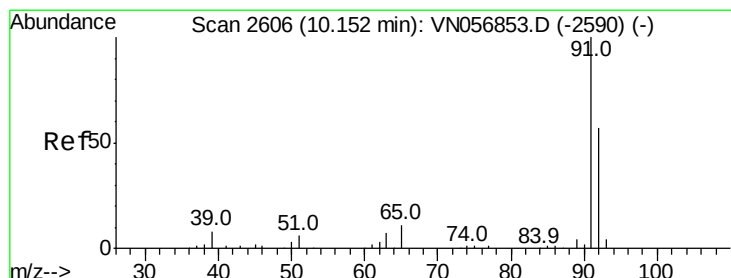
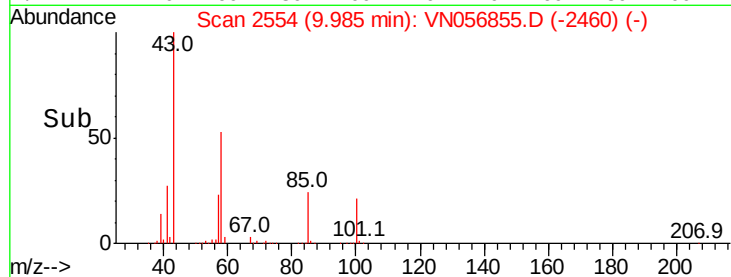
1000000

500000

0

9.90 9.99 10.00 10.10

Time-->



#52

Toluene

Concen: 152.406 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. 0.00 min

Lab File: VN056855.D

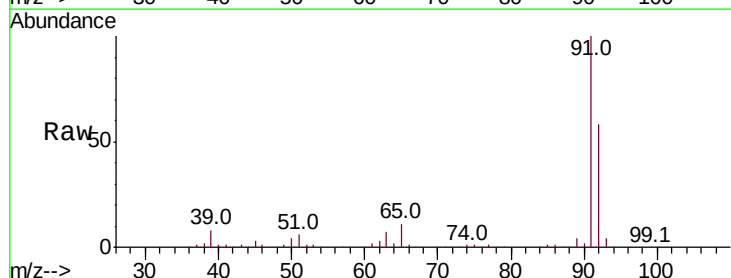
Acq: 22 Jul 2019 13:58

Tgt Ion: 92 Resp: 1420191

Ion Ratio Lower Upper

92 100

91 173.2 140.6 210.8



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

1500000

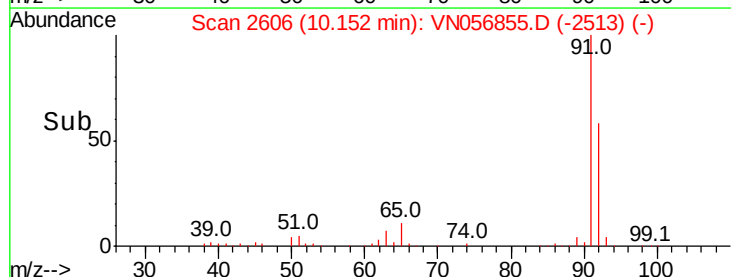
1000000

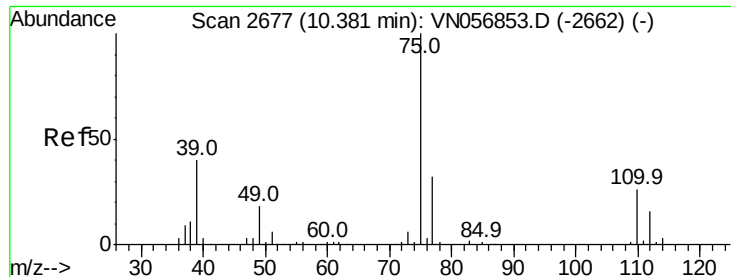
500000

0

10.00 10.10 10.15 10.20 10.30

Time-->





#53

t-1,3-Dichloropropene

Concen: 163.252 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN056855.D

Acq: 22 Jul 2019 13:58

Instrument :

MSVOA_N

ClientSampled :

VSTDIC150

Tot Ion: 75 Resp: 829851

Ion Ratio Lower Upper

75 100

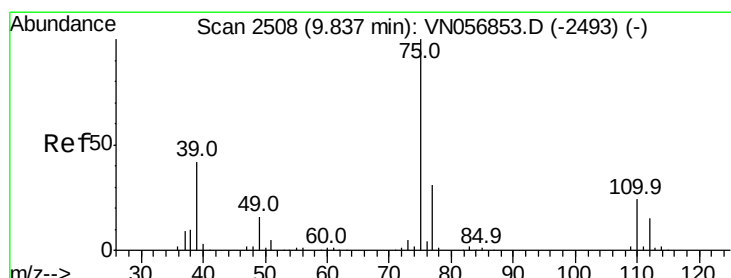
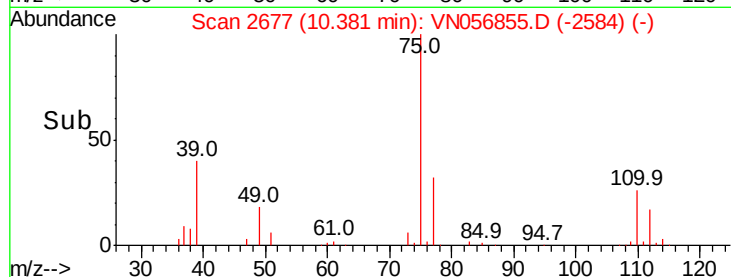
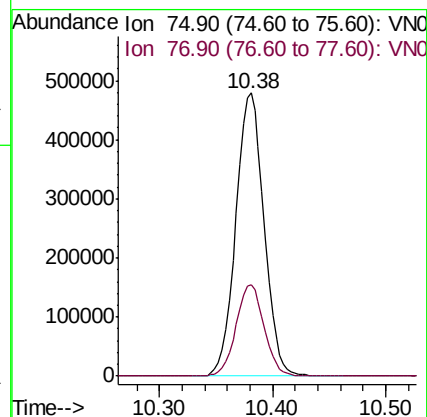
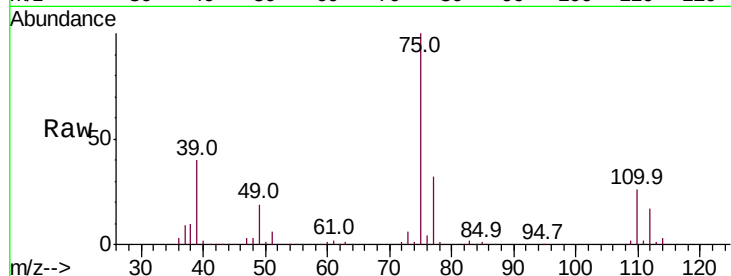
77 32.3 25.4 38.2

Manual Integrations

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#54

cis-1,3-Dichloropropene

Concen: 158.367 ug/l

RT: 9.84 min Scan# 2508

Delta R.T. 0.00 min

Lab File: VN056855.D

Acq: 22 Jul 2019 13:58

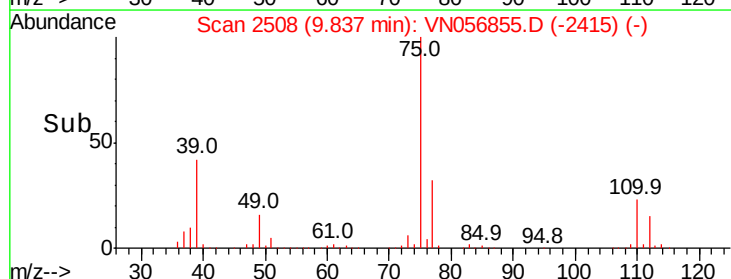
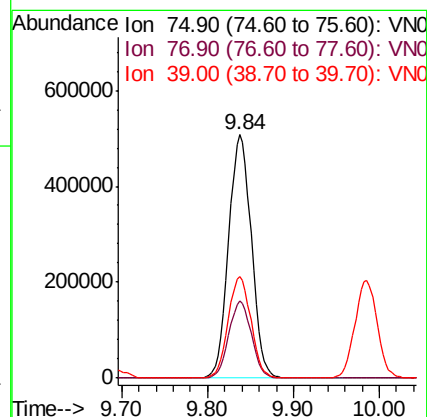
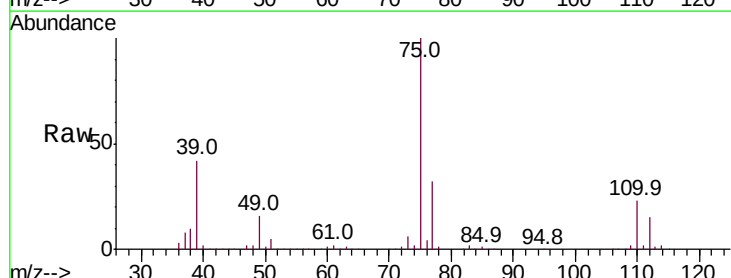
Tgt Ion: 75 Resp: 936707

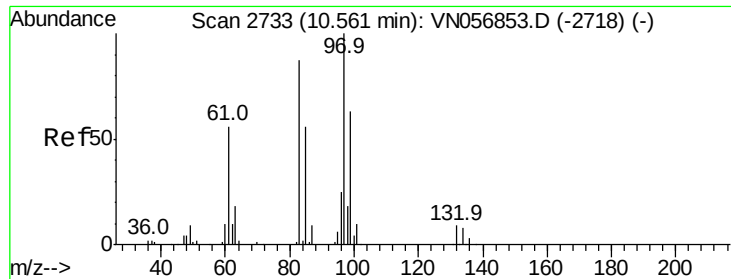
Ion Ratio Lower Upper

75 100

77 31.7 25.1 37.7

39 41.6 33.4 50.2





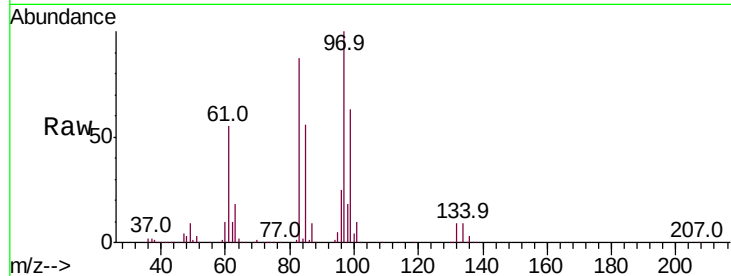
#55
 1,1,2-Trichloroethane
 Concen: 141.592 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN056855.D
 Acq: 22 Jul 2019 13:58

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
97	100		
83	86.8	70.0	105.0
85	56.2	45.1	67.7
99	62.8	50.2	75.4

Manual Integrations
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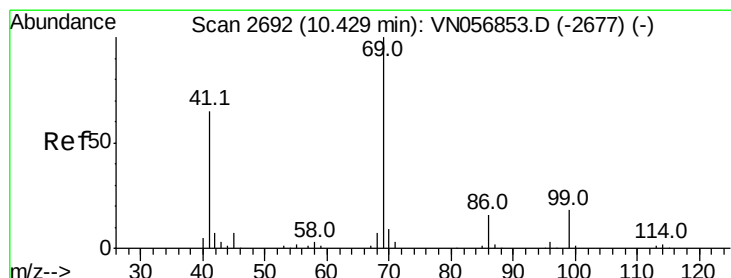
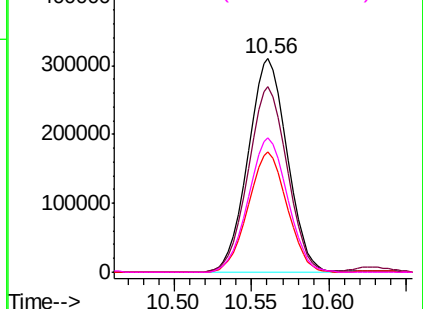
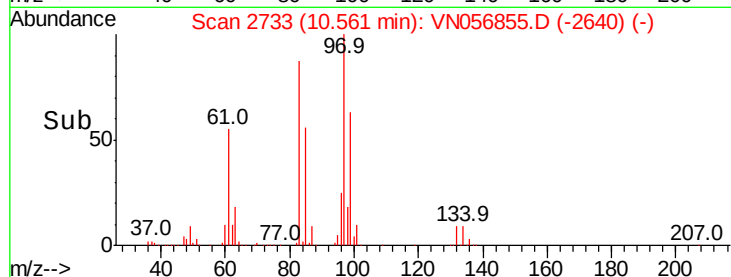
Abundance

Ion 96.90 (96.60 to 97.60): VN0

Ion 82.90 (82.60 to 83.60): VN0

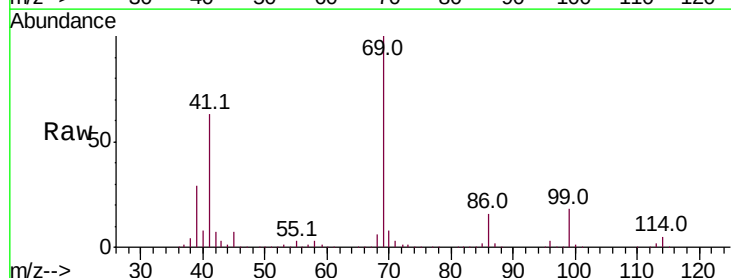
Ion 84.90 (84.60 to 85.60): VN0

Ion 98.90 (98.60 to 99.60): VN0



#56
 Ethyl methacrylate
 Concen: 154.351 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN056855.D
 Acq: 22 Jul 2019 13:58

Tgt Ion	Ratio	Lower	Upper
69	100		
41	63.0	51.0	76.6
39	29.8	24.5	36.7

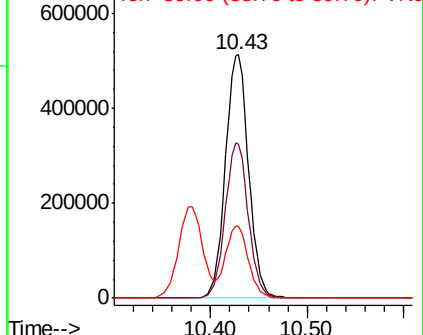
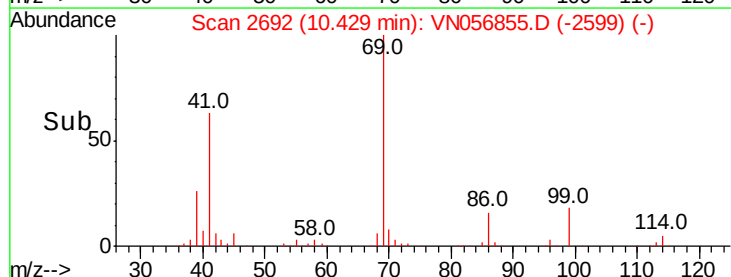


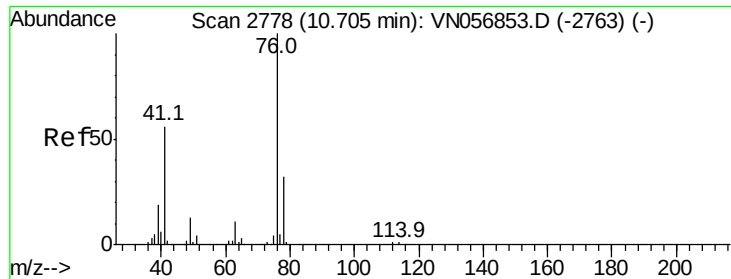
Abundance

Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





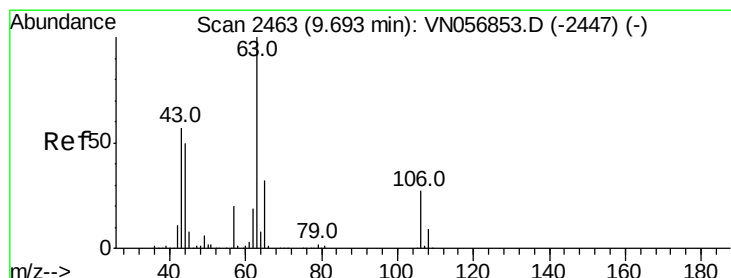
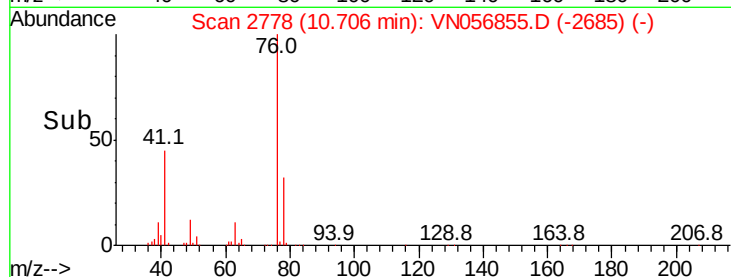
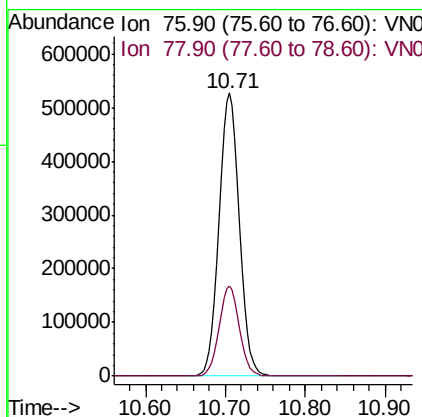
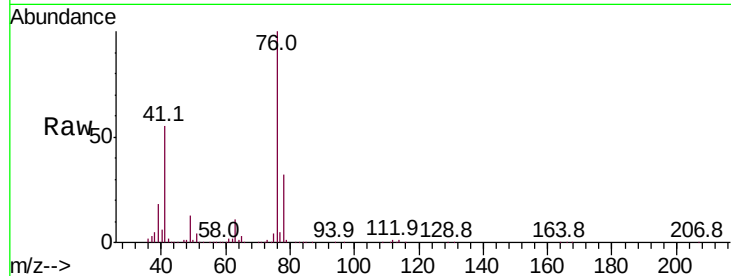
#57
 1,3-Dichloropropane
 Concen: 146.914 ug/l
 RT: 10.71 min Scan# 2778
 Delta R.T. 0.00 min
 Lab File: VN056855.D
 Acq: 22 Jul 2019 13:58

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion: 76 Resp: 930546
 Ion Ratio Lower Upper
 76 100
 78 31.7 25.8 38.6

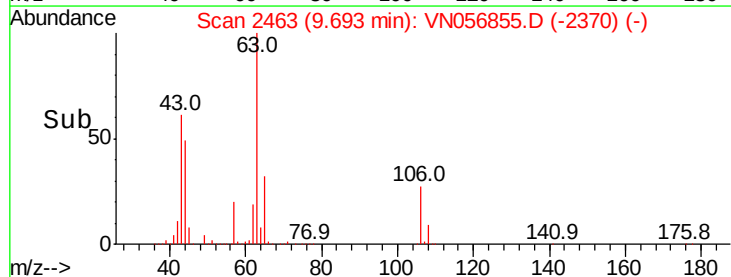
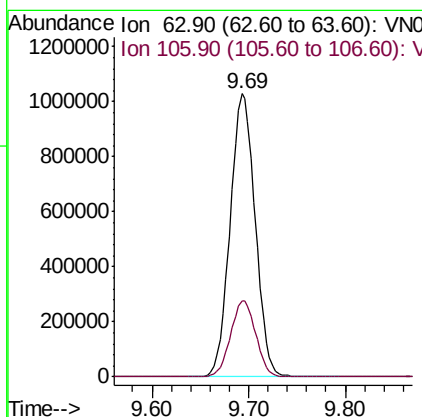
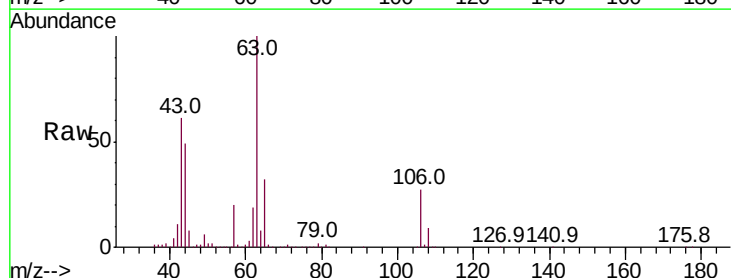
Manual Integrations
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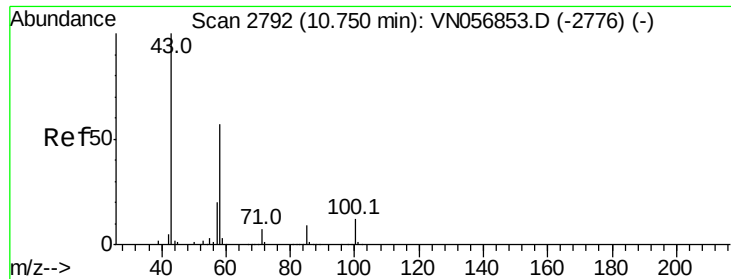
MMDadoda
 7/25/2019 3:01:28 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 711.728 ug/l
 RT: 9.69 min Scan# 2463
 Delta R.T. 0.00 min
 Lab File: VN056855.D
 Acq: 22 Jul 2019 13:58

Tgt Ion: 63 Resp: 1846568
 Ion Ratio Lower Upper
 63 100
 106 27.0 21.8 32.8





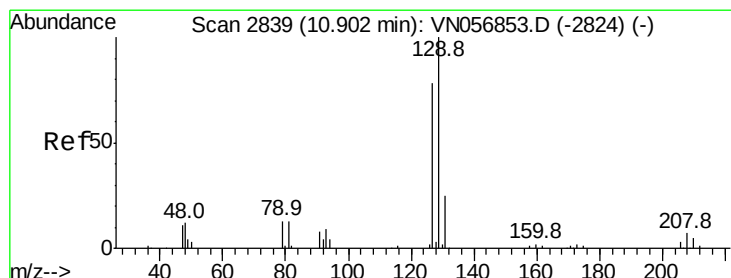
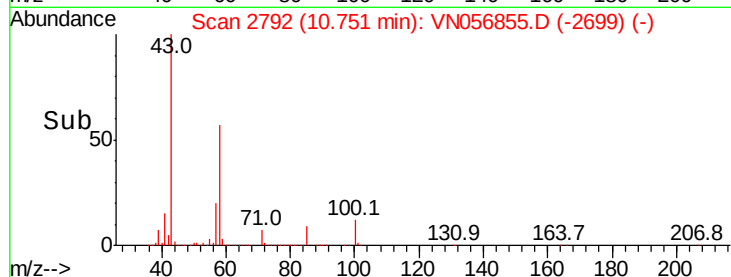
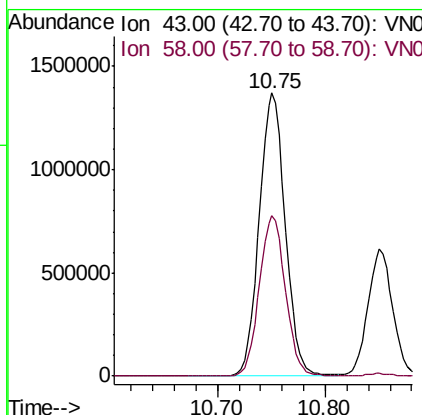
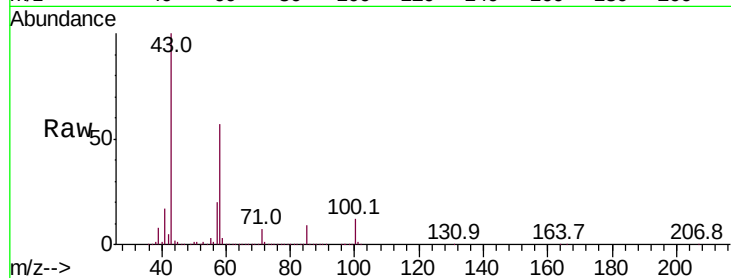
#59
2-Hexanone
Concen: 650.341 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN056855.D
Acq: 22 Jul 2019 13:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion: 43 Resp: 2290715
Ion Ratio Lower Upper
43 100
58 57.0 28.3 85.0

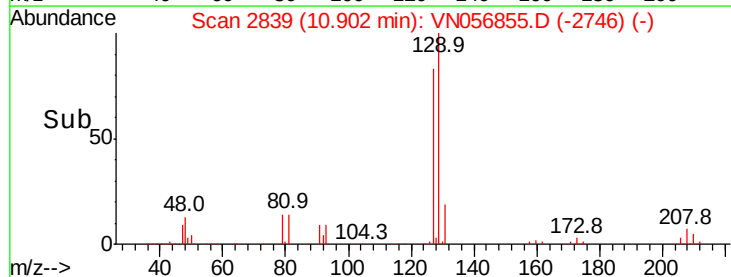
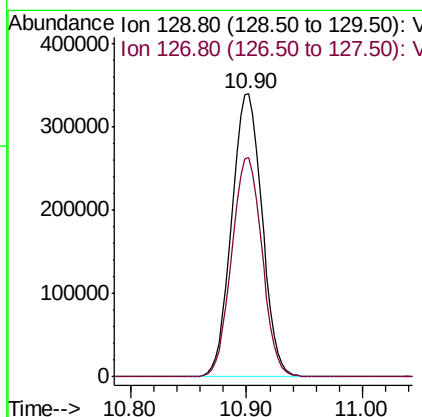
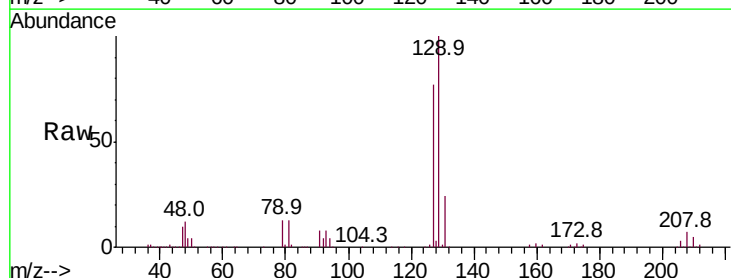
Manual Integrations
APPROVED

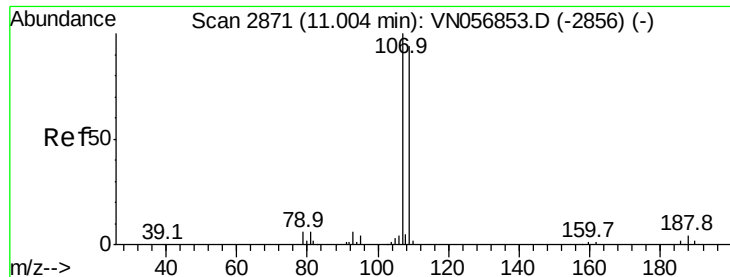
MMDadoda
7/25/2019 3:01:28 PM



#60
Dibromochloromethane
Concen: 161.437 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN056855.D
Acq: 22 Jul 2019 13:58

Tgt Ion: 129 Resp: 615781
Ion Ratio Lower Upper
129 100
127 77.4 38.5 115.5





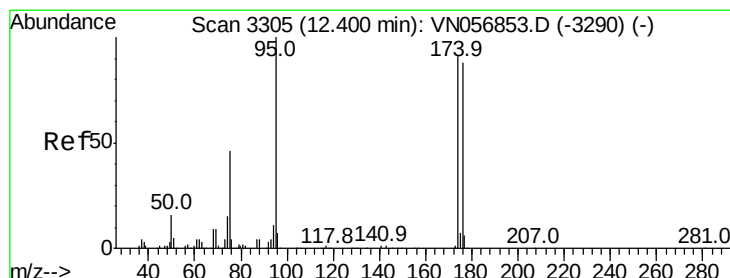
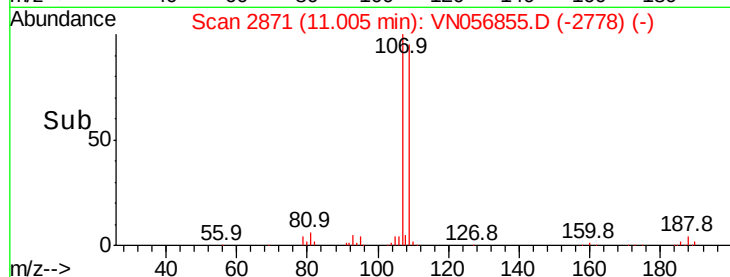
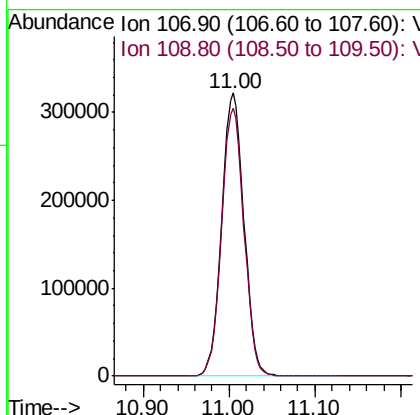
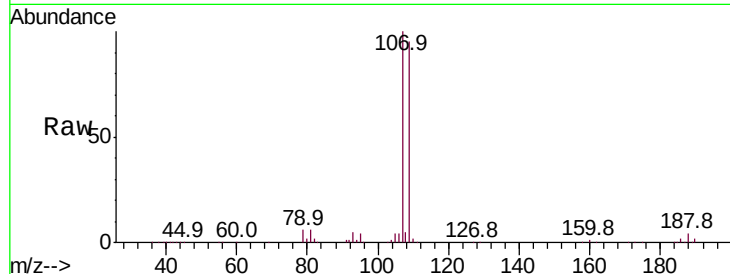
#61
 1,2-Dibromoethane
 Concen: 150.512 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. 0.00 min
 Lab File: VN056855.D
 Acq: 22 Jul 2019 13:58

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Resp	Lower	Upper
107	100	579915		
109	95.2	75.3	112.9	

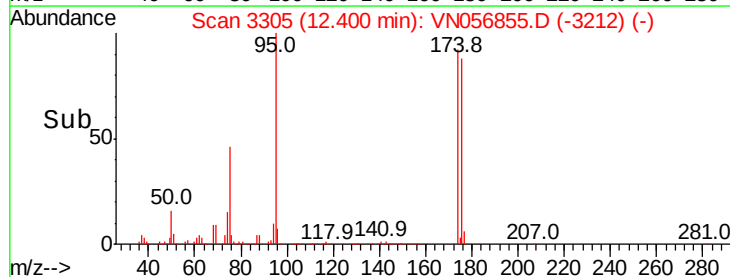
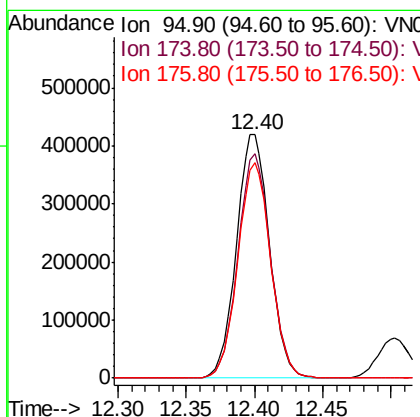
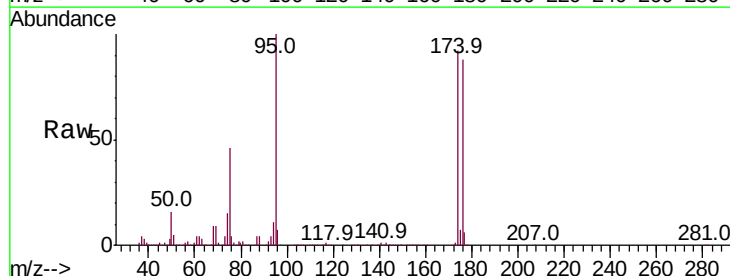
Manual Integrations
 APPROVED

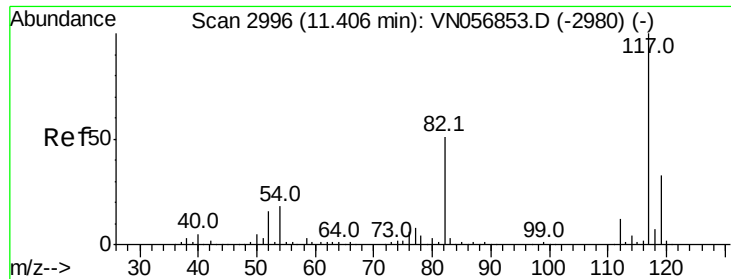
MMDadoda
 7/25/2019 3:01:28 PM



#62
 4-Bromofluorobenzene
 Concen: 159.861 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN056855.D
 Acq: 22 Jul 2019 13:58

Tgt Ion	Ratio	Resp	Lower	Upper
95	100	704545		
174	90.8	0.0	183.4	
176	87.9	0.0	175.8	





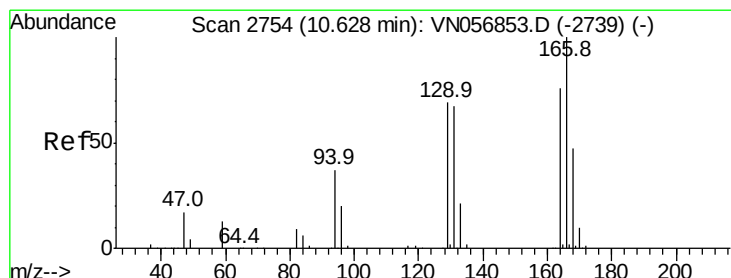
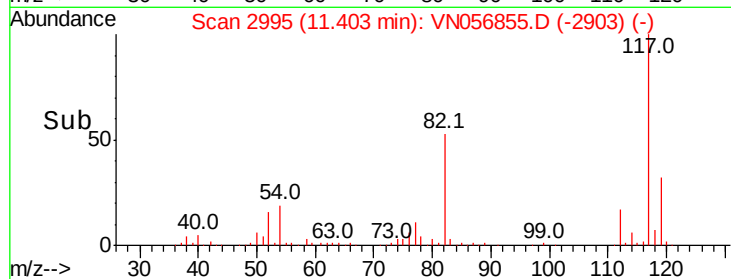
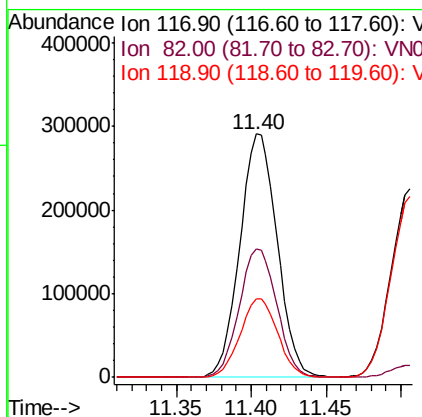
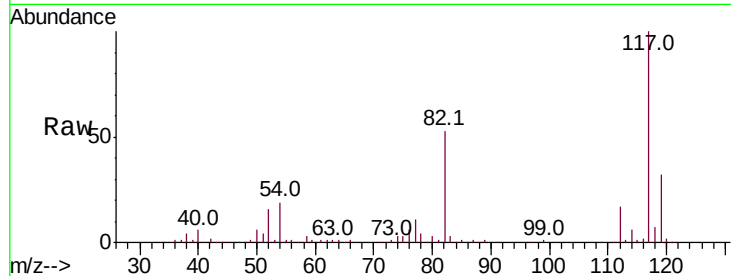
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. -0.00 min
Lab File: VN056855.D
Acq: 22 Jul 2019 13:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Resp	Lower	Upper
117	100			
82	53.0	41.2	61.8	
119	32.1	26.4	39.6	

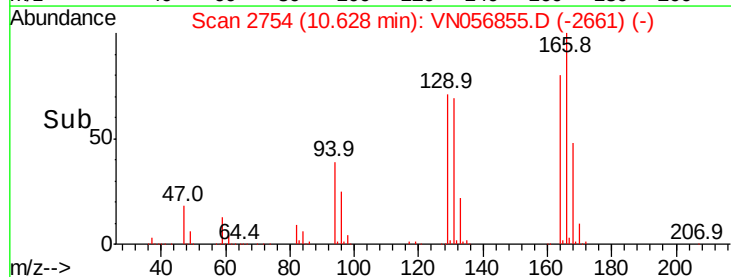
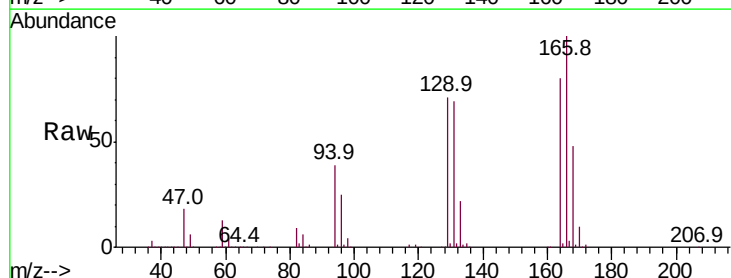
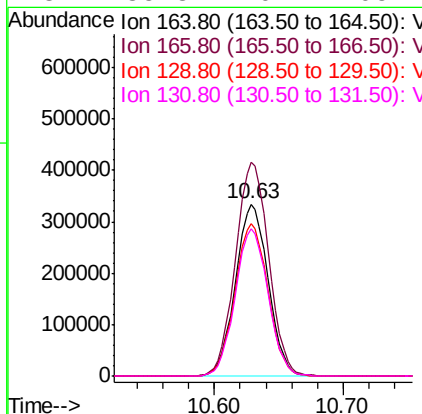
Manual Integrations
APPROVED

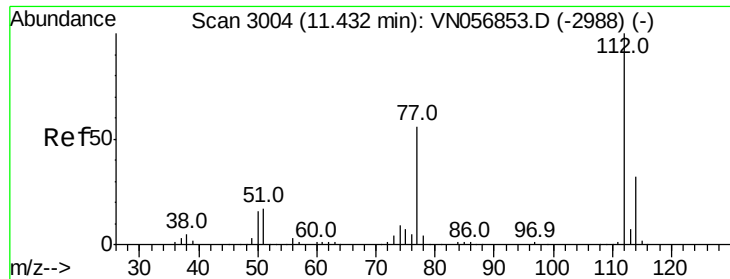
MMDadoda
7/25/2019 3:01:28 PM



#64
Tetrachloroethene
Concen: 132.910 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. 0.00 min
Lab File: VN056855.D
Acq: 22 Jul 2019 13:58

Tgt Ion	Ratio	Resp	Lower	Upper
164	100			
166	124.3	104.9	157.3	
129	88.8	72.8	109.2	
131	85.3	70.2	105.2	





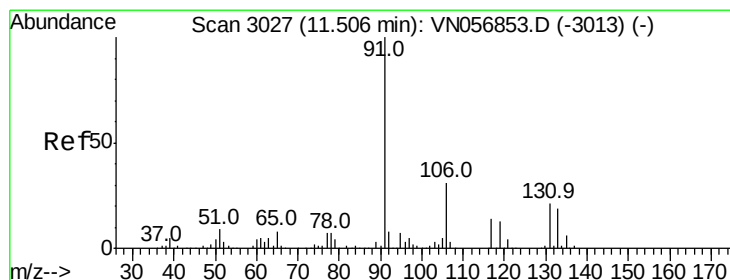
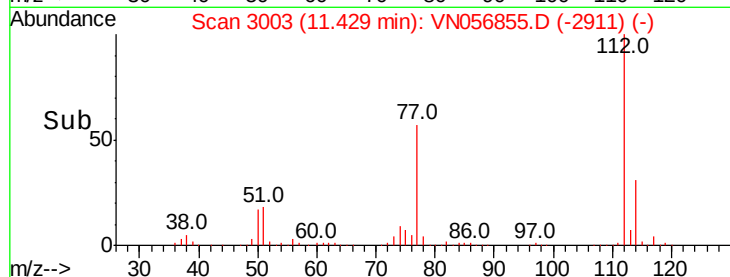
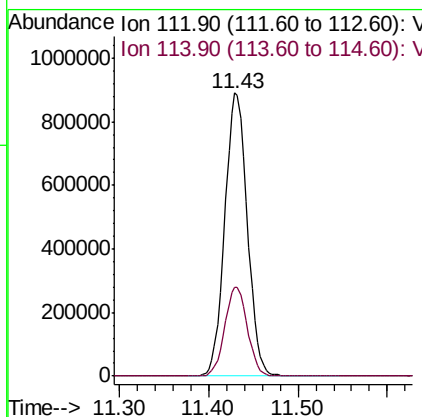
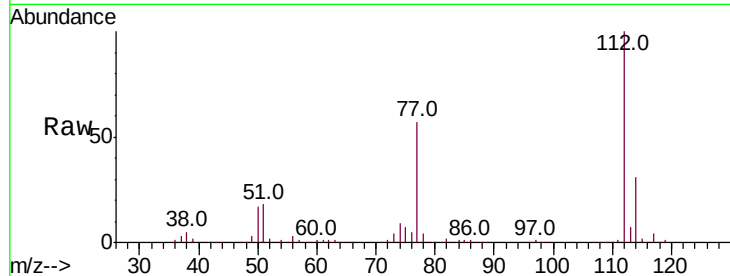
#65
Chlorobenzene
Concen: 148.111 ug/l
RT: 11.43 min Scan# 3003
Delta R.T. -0.00 min
Lab File: VN056855.D
Acq: 22 Jul 2019 13:58

Instrument :
MSVOA_N
ClientSampled :
VSTDIC150

Tot Ion:112 Resp: 1552446
Ion Ratio Lower Upper
112 100
114 31.4 25.5 38.3

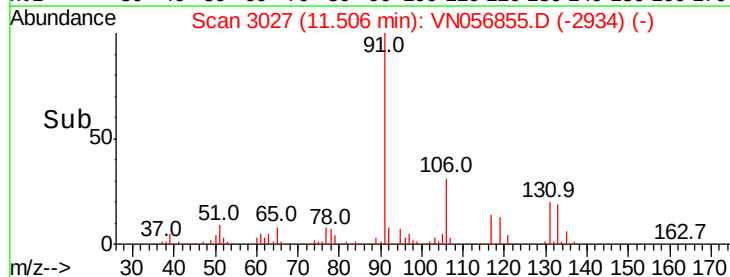
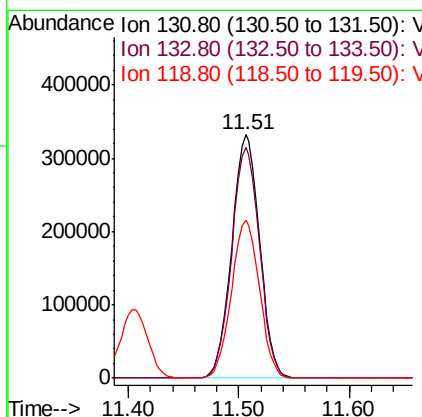
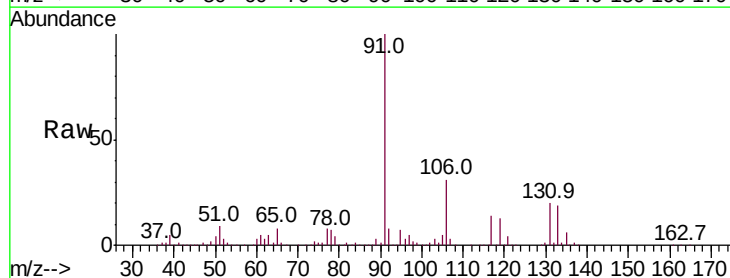
Manual Integrations
APPROVED

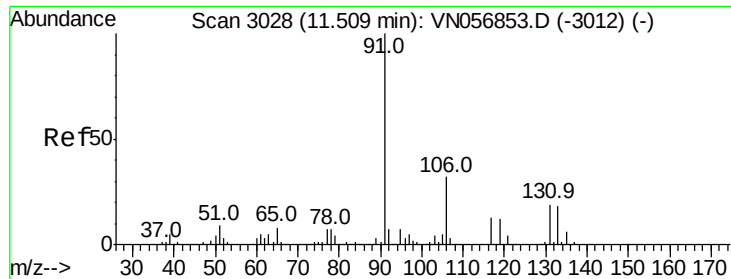
MMDadoda
7/25/2019 3:01:28 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 150.298 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. 0.00 min
Lab File: VN056855.D
Acq: 22 Jul 2019 13:58

Tgt Ion:131 Resp: 579647
Ion Ratio Lower Upper
131 100
133 95.3 47.4 142.3
119 65.7 33.1 99.5





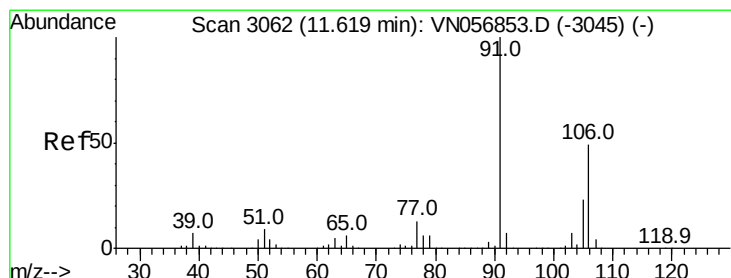
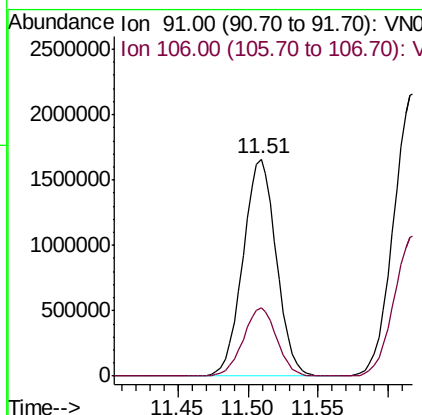
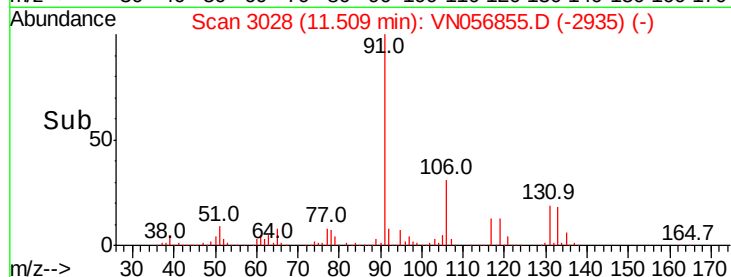
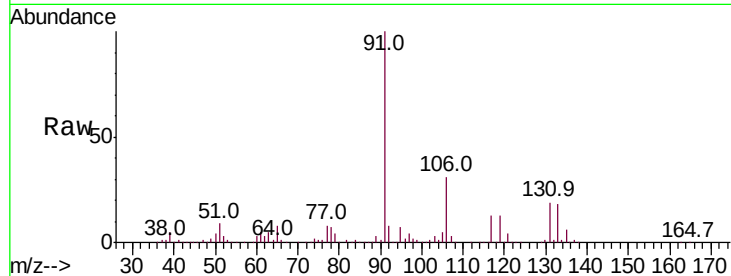
#67
Ethyl Benzene
Concen: 149.208 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN056855.D
Acq: 22 Jul 2019 13:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion: 91 Resp: 2744364
Ion Ratio Lower Upper
91 100
106 31.4 25.3 37.9

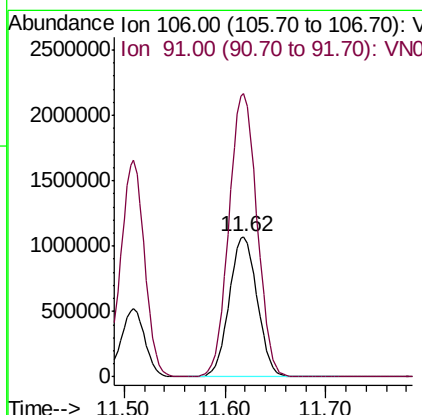
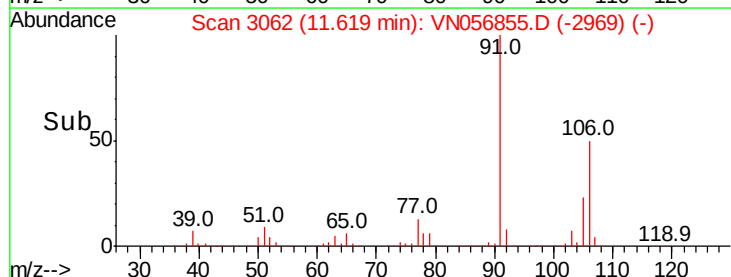
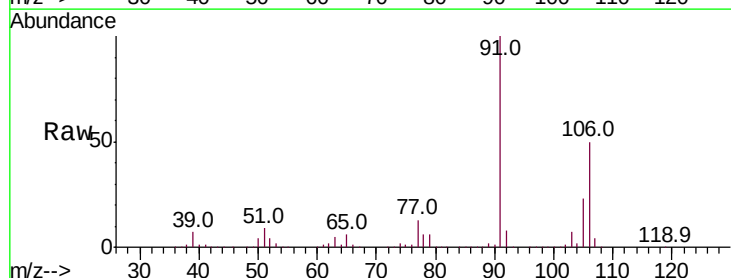
Manual Integrations
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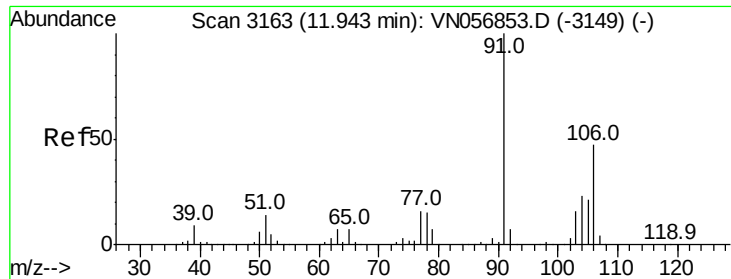
MMDadoda
7/25/2019 3:01:28 PM



#68
m/p-Xylenes
Concen: 301.106 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN056855.D
Acq: 22 Jul 2019 13:58

Tgt Ion: 106 Resp: 2068756
Ion Ratio Lower Upper
106 100
91 203.1 160.5 240.7





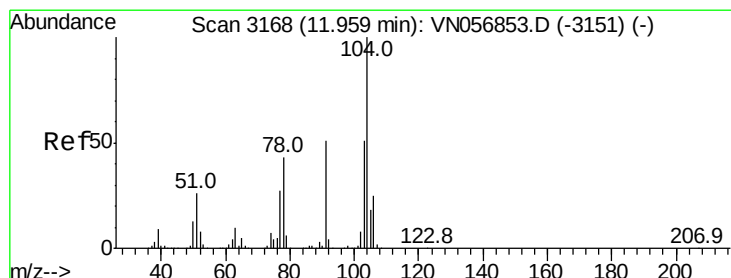
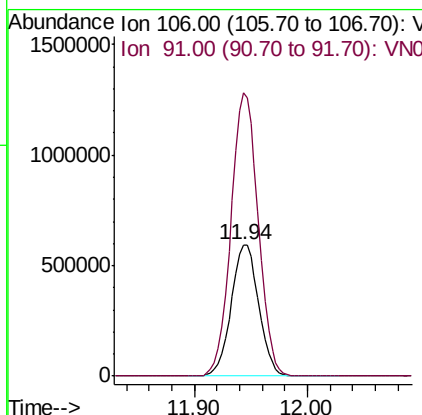
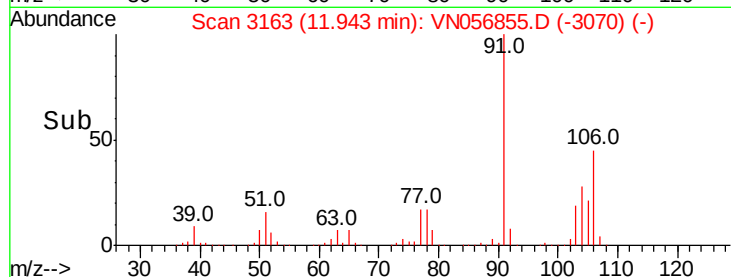
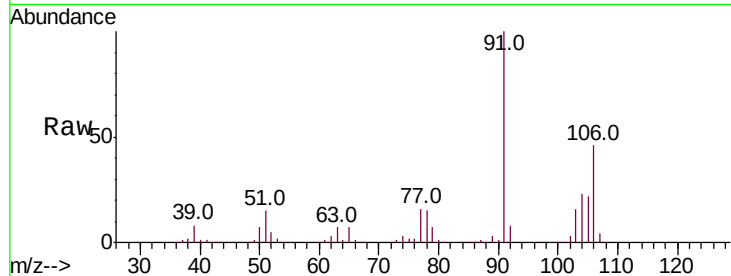
#69
o-Xylene
Concen: 148.328 ug/l
RT: 11.94 min Scan# 3163
Delta R.T. 0.00 min
Lab File: VN056855.D
Acq: 22 Jul 2019 13:58

Instrument :
MSVOA_N
ClientSampled :
VSTDIC150

Tot Ion:106 Resp: 1002171
Ion Ratio Lower Upper
106 100
91 214.0 105.1 315.3

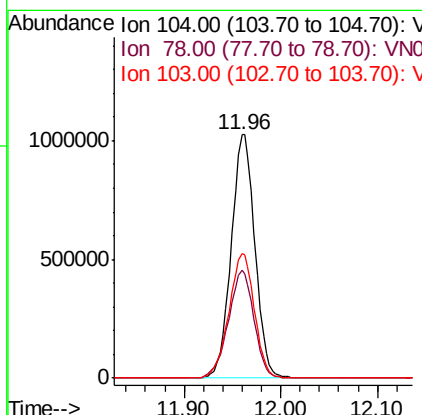
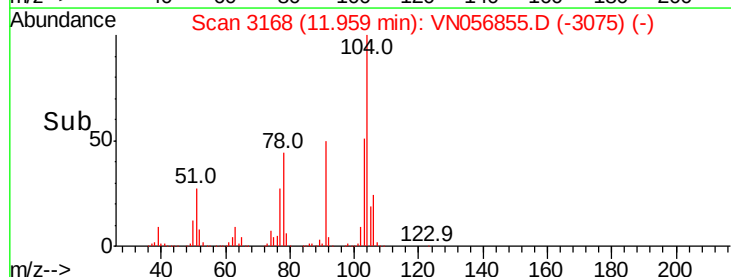
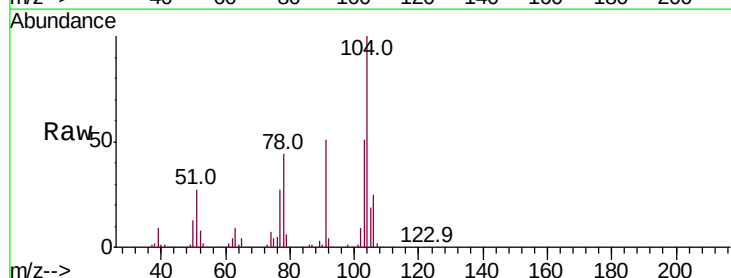
Manual Integrations
APPROVED

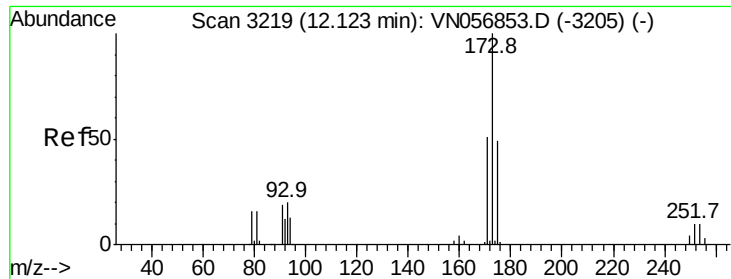
MMDadoda
7/25/2019 3:01:28 PM



#70
Styrene
Concen: 159.686 ug/l
RT: 11.96 min Scan# 3168
Delta R.T. 0.00 min
Lab File: VN056855.D
Acq: 22 Jul 2019 13:58

Tgt Ion:104 Resp: 1742387
Ion Ratio Lower Upper
104 100
78 47.8 38.1 57.1
103 55.1 44.2 66.4





#71

Bromoform

Concen: 158.799 ug/l

RT: 12.12 min Scan# 3219

Delta R.T. 0.00 min

Lab File: VN056855.D

Acq: 22 Jul 2019 13:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:173 Resp: 458764

Ion Ratio Lower Upper

173 100

175 49.0 24.1 72.3

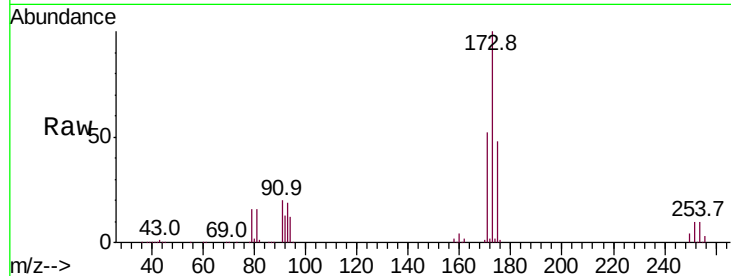
254 0.1 0.0 0.0#

Manual Integrations

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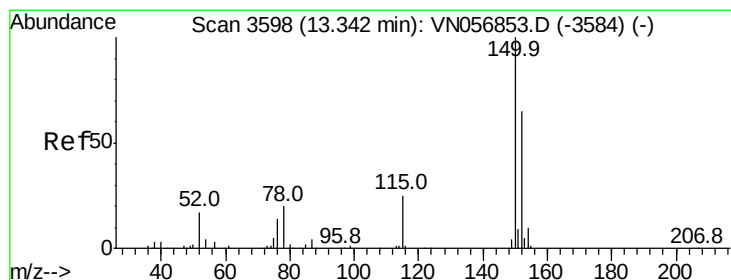
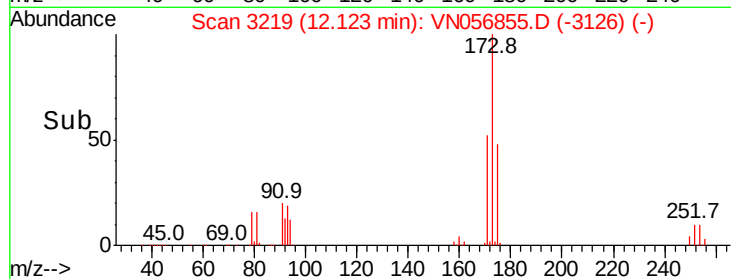
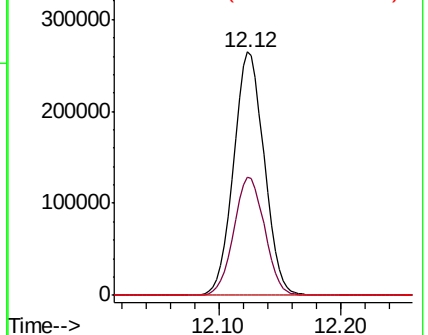
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Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. -0.00 min

Lab File: VN056855.D

Acq: 22 Jul 2019 13:58

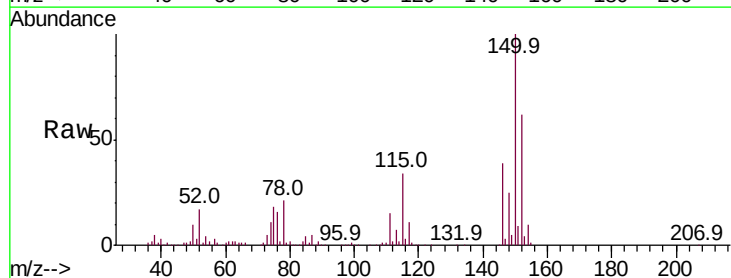
Tgt Ion:152 Resp: 253389

Ion Ratio Lower Upper

152 100

115 55.3 27.6 82.7

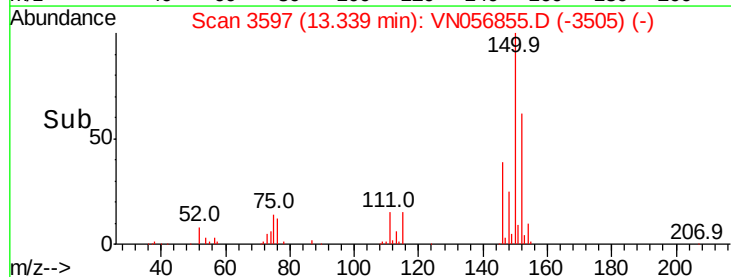
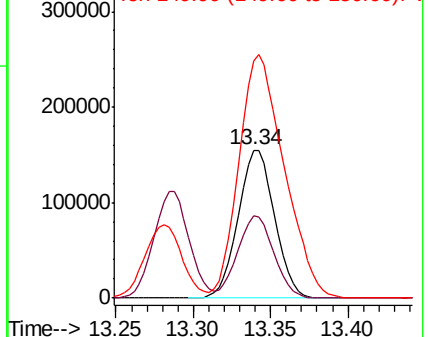
150 204.5 0.0 343.0

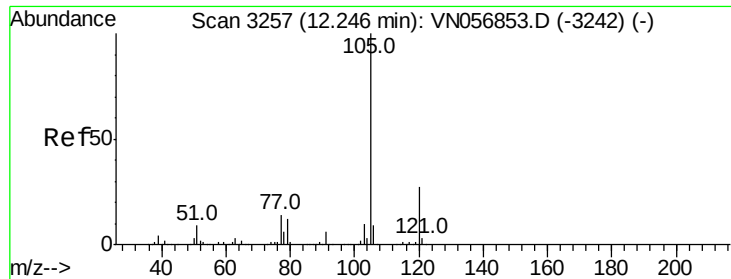


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 128.365 ug/l

RT: 12.25 min Scan# 3257

Delta R.T. 0.00 min

Lab File: VN056855.D

Acq: 22 Jul 2019 13:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:105 Resp: 2668749

Ion Ratio Lower Upper

105 100

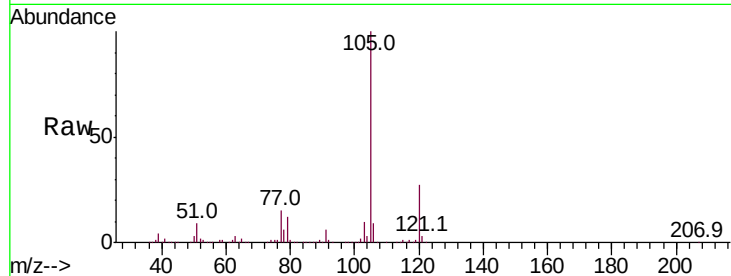
120 26.9 13.4 40.2

Manual Integrations

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

2000000

1500000

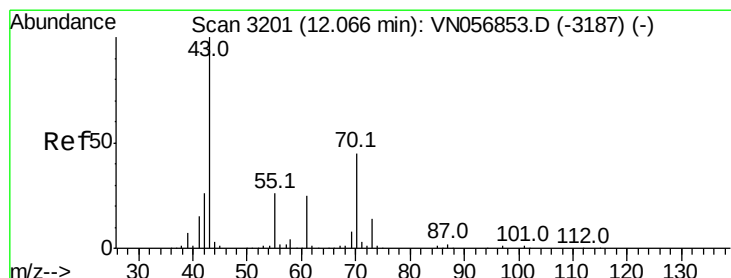
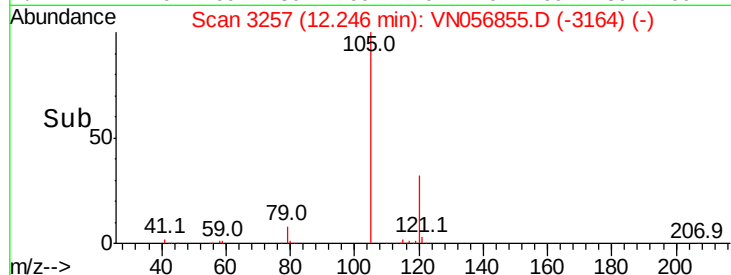
1000000

500000

0

12.20 12.25 12.30

Time-->



#74

N-amyl acetate

Concen: 129.985 ug/l

RT: 12.07 min Scan# 3201

Delta R.T. 0.00 min

Lab File: VN056855.D

Acq: 22 Jul 2019 13:58

Tgt Ion: 43 Resp: 984234

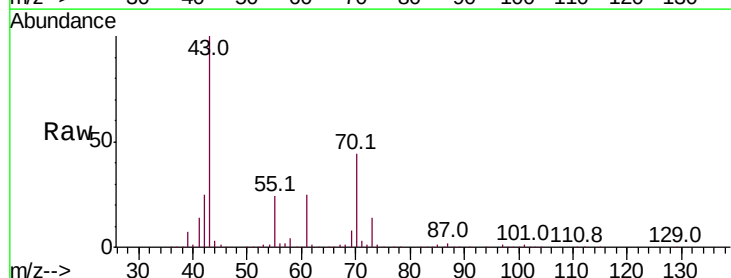
Ion Ratio Lower Upper

43 100

70 44.2 35.3 52.9

55 24.7 20.6 31.0

61 25.3 20.2 30.2



Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

1000000

800000

600000

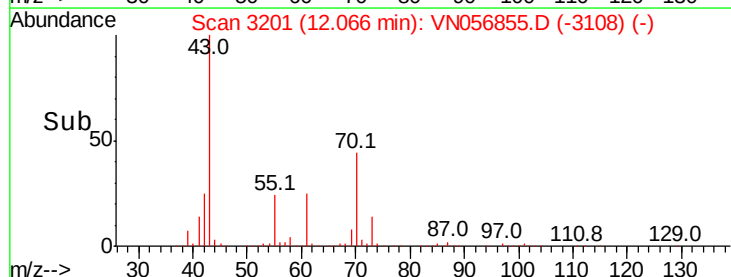
400000

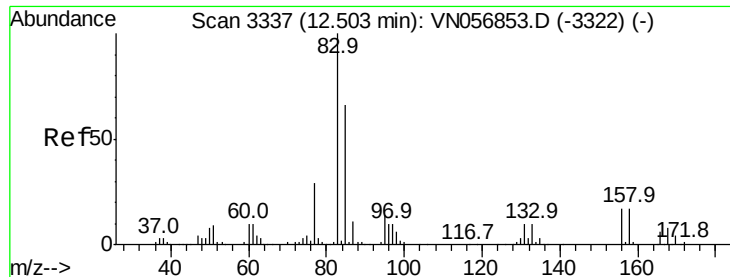
200000

0

12.00 12.07 12.10 12.20

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 112.021 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN056855.D

Acq: 22 Jul 2019 13:58

Instrument :

MSVOA_N

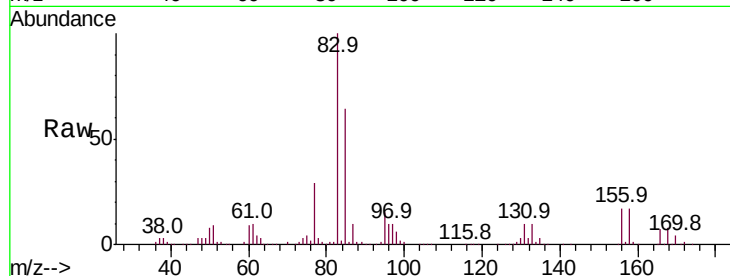
ClientSampleId :

VSTDIC150

Tot Ion:	83	Resp:	768350
Ion Ratio	Lower	Upper	
83	100		
131	10.3	5.1	15.4
85	64.3	32.8	98.3

Manual Integrations
APPROVED

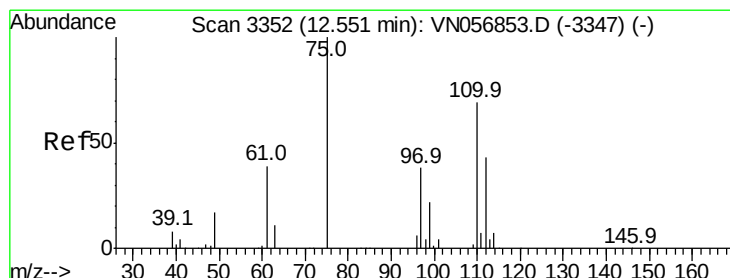
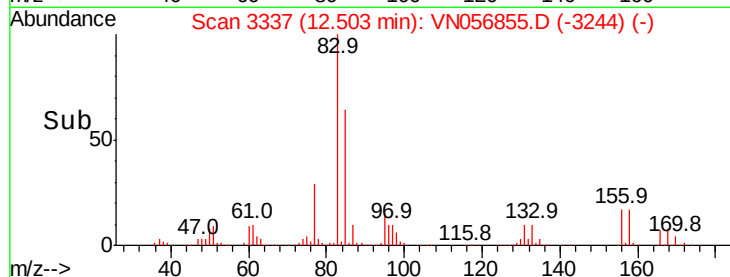
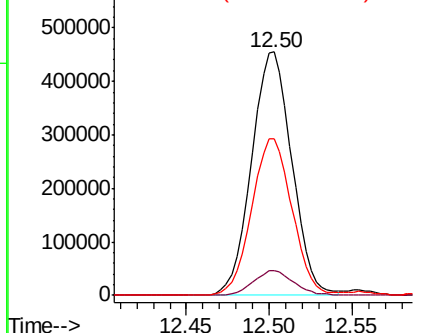
MMDadoda
7/25/2019 3:01:28 PM



Abundance Ion 82.90 (82.60 to 83.60): VN056853.D (-3322) (-)

Ion 130.80 (130.50 to 131.50): VN056853.D (-3322) (-)

Ion 84.90 (84.60 to 85.60): VN056853.D (-3322) (-)



#76

1,2,3-Trichloropropane

Concen: 118.010 ug/l m

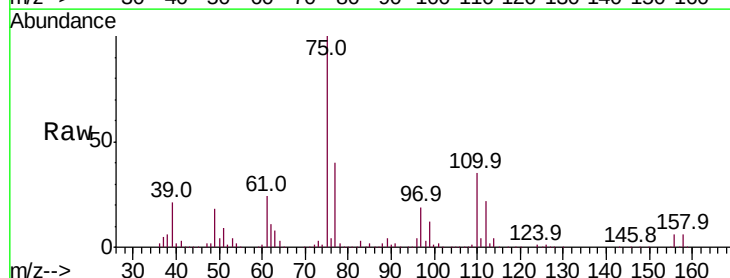
RT: 12.55 min Scan# 3352

Delta R.T. 0.00 min

Lab File: VN056855.D

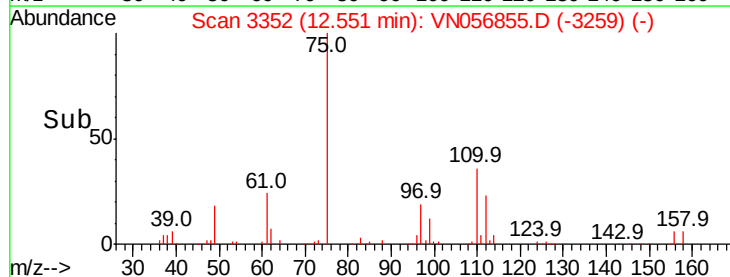
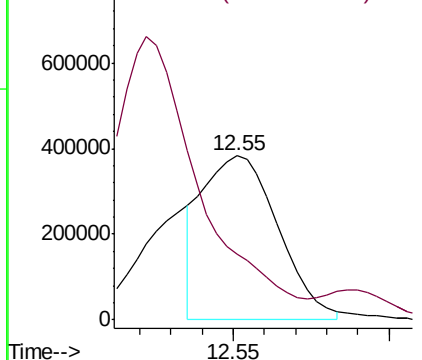
Acq: 22 Jul 2019 13:58

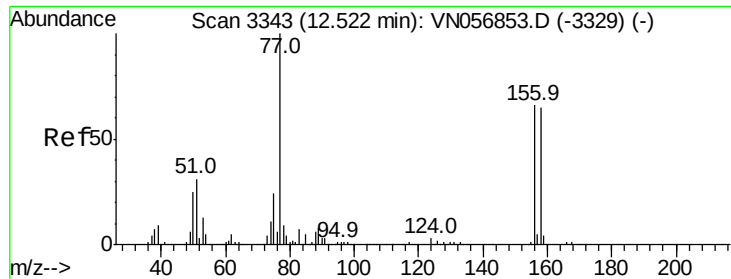
Tgt Ion:	75	Resp:	649926
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VN056853.D (-3347) (-)

Ion 77.00 (76.70 to 77.70): VN056853.D (-3347) (-)





#77

Bromobenzene

Concen: 131.994 ug/l

RT: 12.52 min Scan# 3343

Delta R.T. 0.00 min

Lab File: VN056855.D

Acq: 22 Jul 2019 13:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:156 Resp: 717221

Ion Ratio Lower Upper

156 100

77 184.2 90.7 272.1

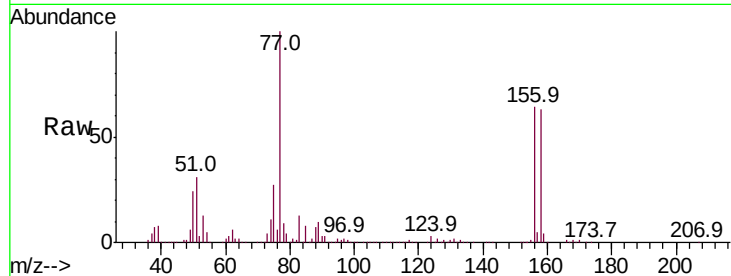
158 97.8 48.5 145.5

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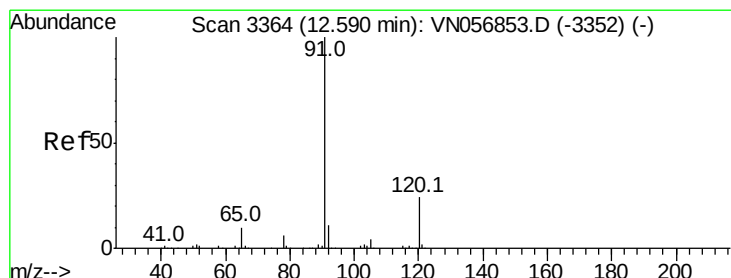
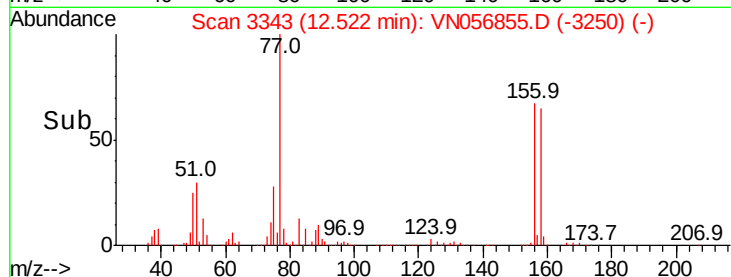
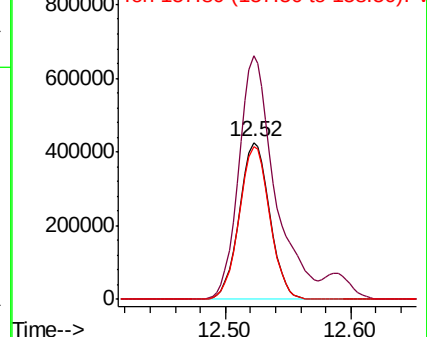
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 133.509 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN056855.D

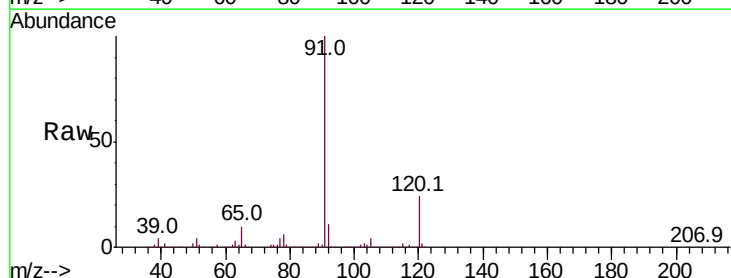
Acq: 22 Jul 2019 13:58

Tgt Ion: 91 Resp: 3066019

Ion Ratio Lower Upper

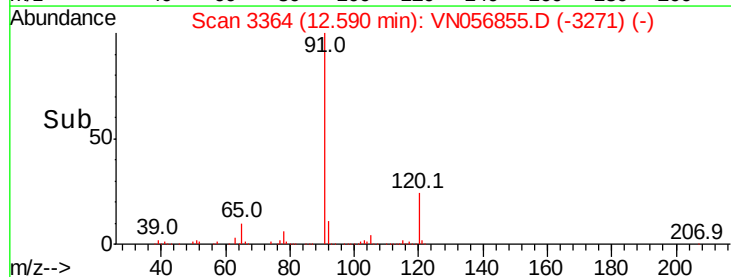
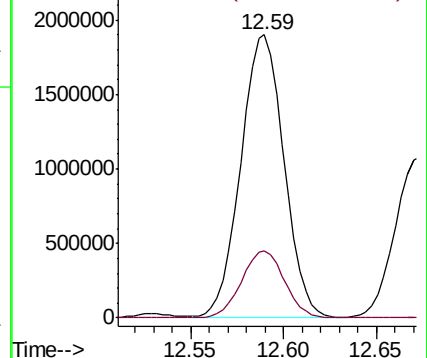
91 100

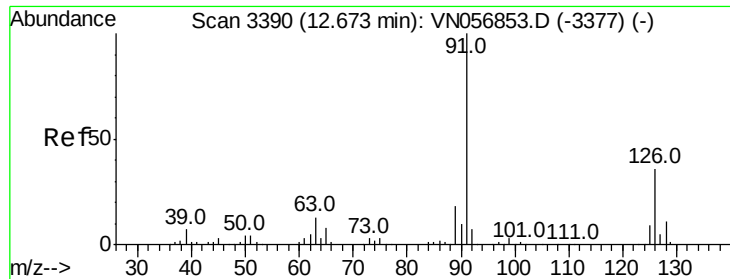
120 23.7 11.8 35.4



Abundance Ion 91.00 (90.70 to 91.70): VN

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 126.579 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN056855.D

Acq: 22 Jul 2019 13:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 91 Resp: 1798826

Ion Ratio Lower Upper

91 100

126 35.3

17.8

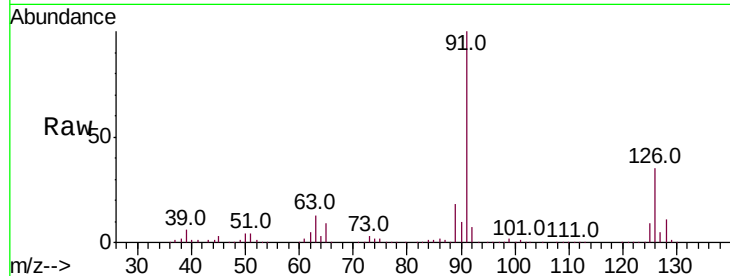
53.5

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VN056855.D (-3377) (-)

Ion 125.90 (125.60 to 126.60): VN056855.D (-3377) (-)

2000000

1500000

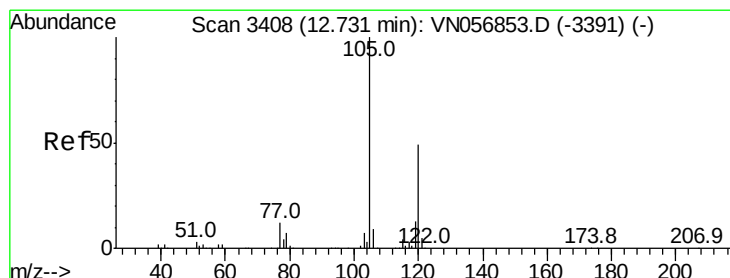
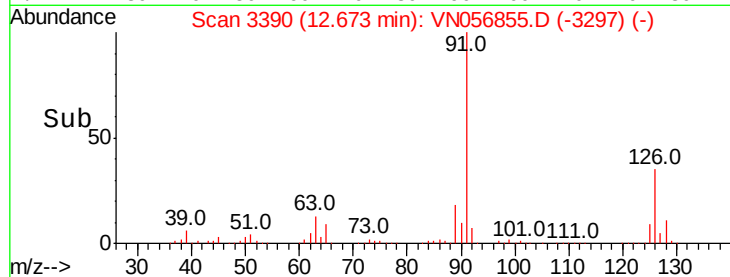
1000000

500000

0

12.60 12.65 12.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 129.059 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN056855.D

Acq: 22 Jul 2019 13:58

Tgt Ion:105 Resp: 2268186

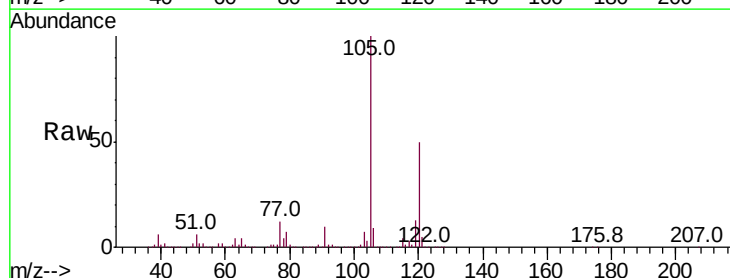
Ion Ratio Lower Upper

105 100

120 49.4

24.7

74.1



Abundance Ion 105.00 (104.70 to 105.70): VN056855.D (-3391) (-)

Ion 120.00 (119.70 to 120.70): VN056855.D (-3391) (-)

1500000

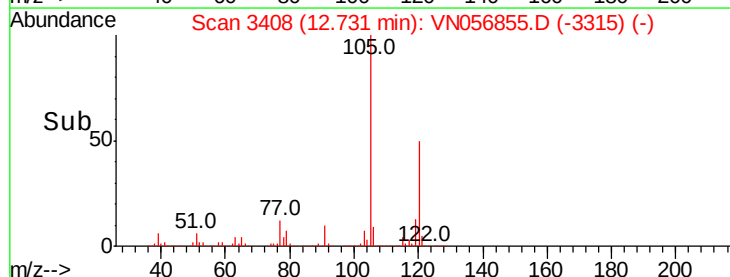
1000000

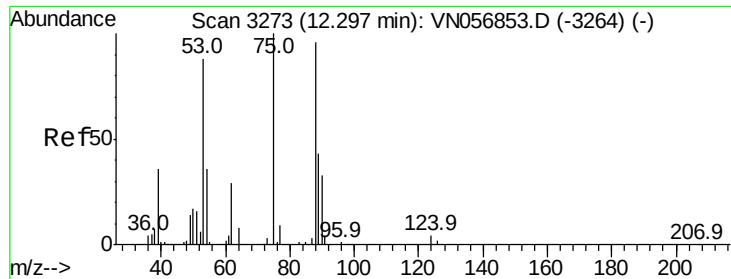
500000

0

12.70 12.73 12.76

Time-->





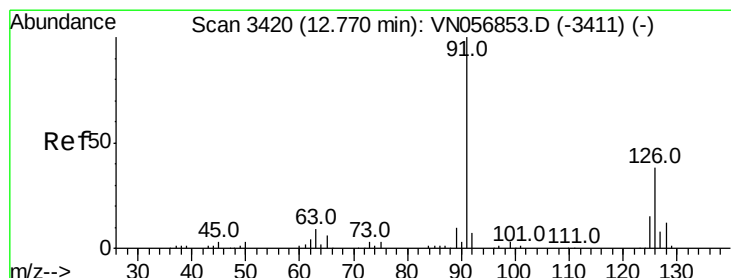
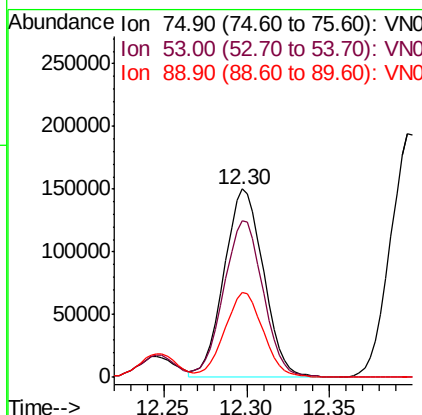
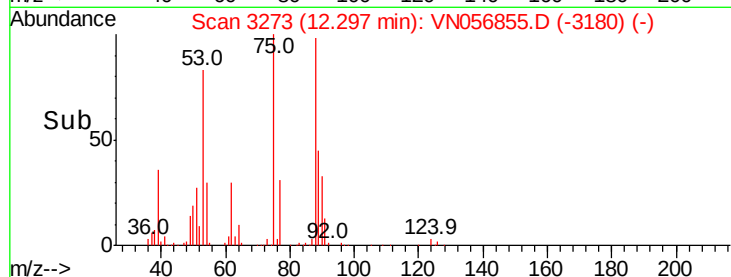
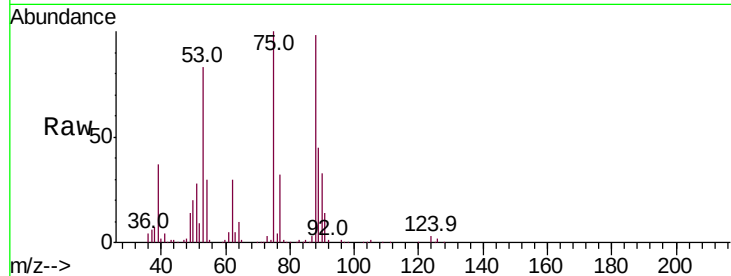
#81
trans-1,4-Dichloro-2-butene
Concen: 139.389 ug/l
RT: 12.30 min Scan# 3273
Delta R.T. 0.00 min
Lab File: VN056855.D
Acq: 22 Jul 2019 13:58

Instrument :
MSVOA_N
ClientSampled :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
75	100		
53	84.1	72.3	108.5
89	44.3	36.2	54.4

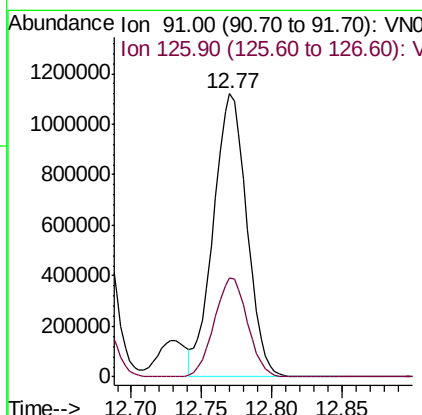
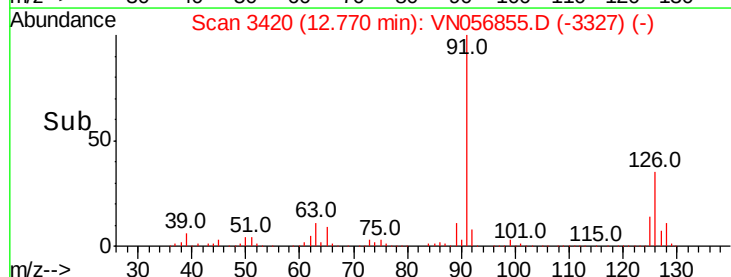
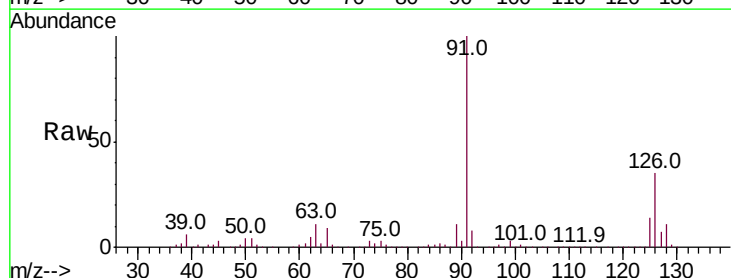
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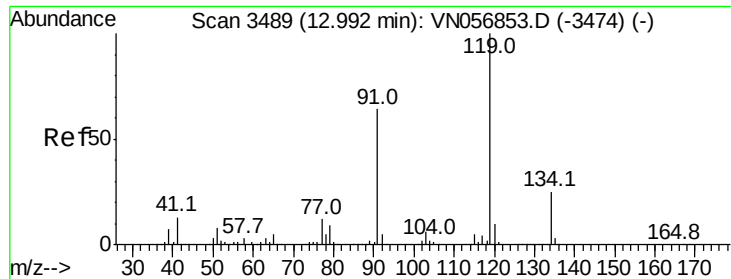
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#82
4-Chlorotoluene
Concen: 136.508 ug/l
RT: 12.77 min Scan# 3420
Delta R.T. 0.00 min
Lab File: VN056855.D
Acq: 22 Jul 2019 13:58

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.9	17.3	52.0





#83

tert-Butylbenzene

Concen: 128.617 ug/l

RT: 12.99 min Scan# 3489

Delta R.T. 0.00 min

Lab File: VN056855.D

Acq: 22 Jul 2019 13:58

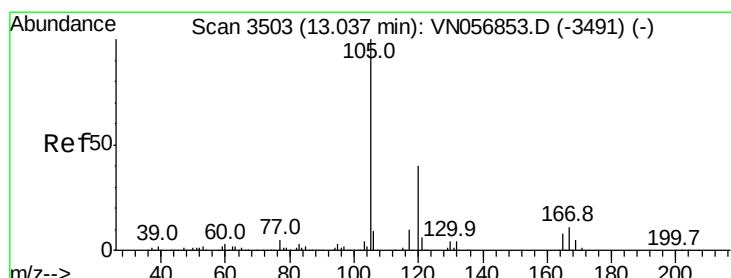
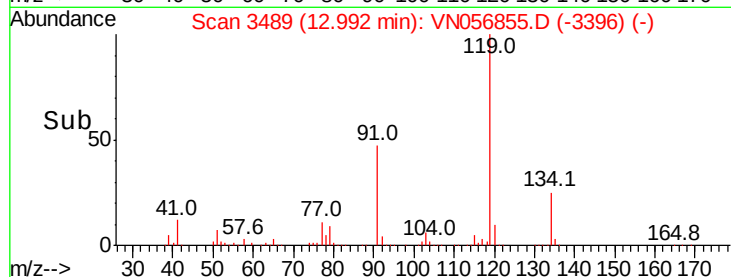
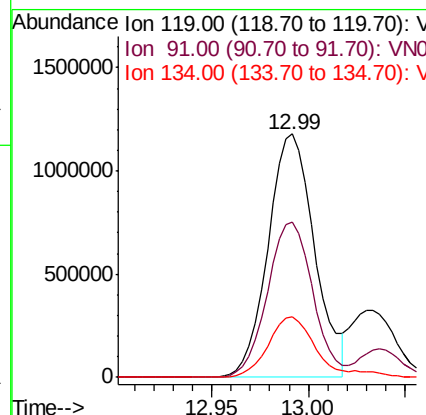
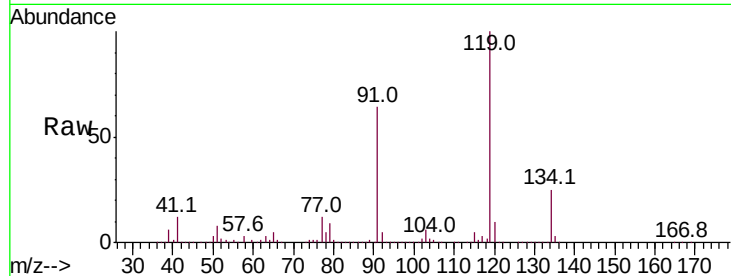
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion:119 Resp: 1972109

Ion	Ratio	Lower	Upper
119	100		
91	62.6	31.5	94.5
134	26.1	12.2	36.6

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#84

1,2,4-Trimethylbenzene

Concen: 133.330 ug/l

RT: 13.04 min Scan# 3503

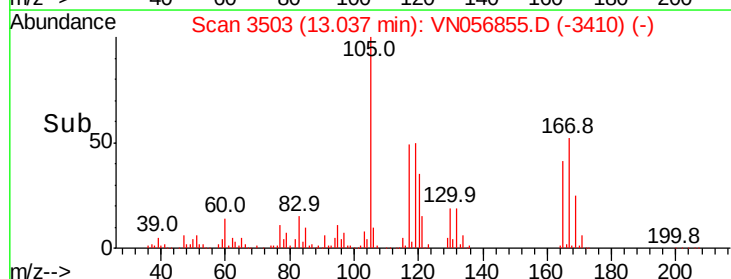
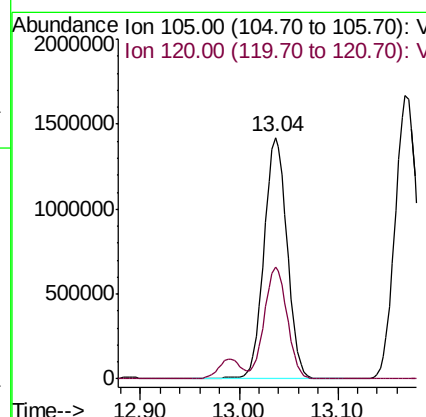
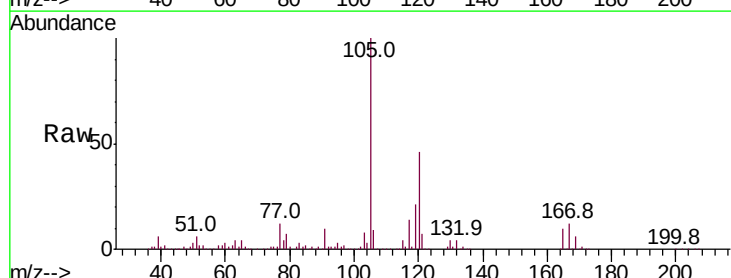
Delta R.T. 0.00 min

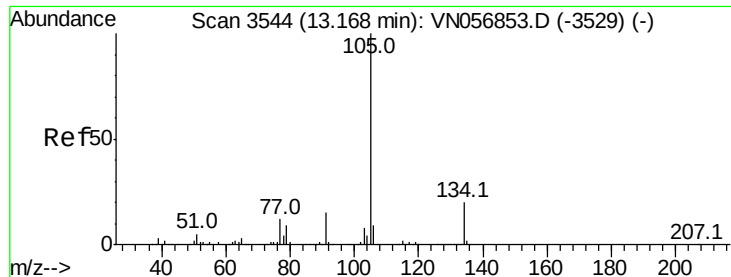
Lab File: VN056855.D

Acq: 22 Jul 2019 13:58

Tgt Ion:105 Resp: 2284713

Ion	Ratio	Lower	Upper
105	100		
120	46.0	23.2	69.5





#85

sec-Butylbenzene

Concen: 134.809 ug/l

RT: 13.17 min Scan# 3544

Delta R.T. 0.00 min

Lab File: VN056855.D

Acq: 22 Jul 2019 13:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:105 Resp: 2636896

Ion Ratio Lower Upper

105 100

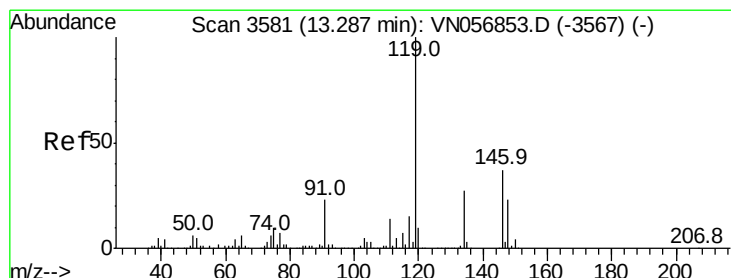
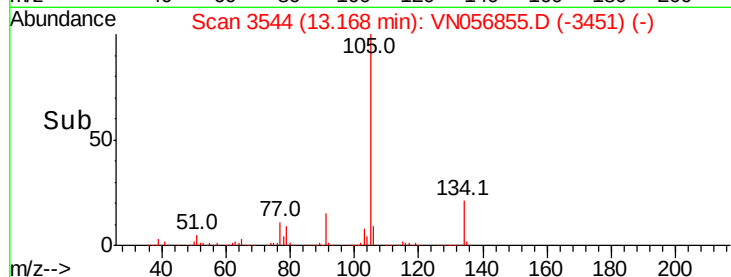
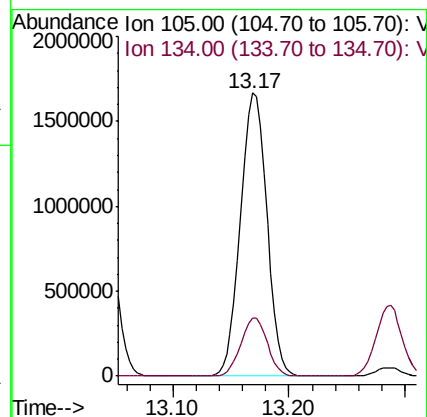
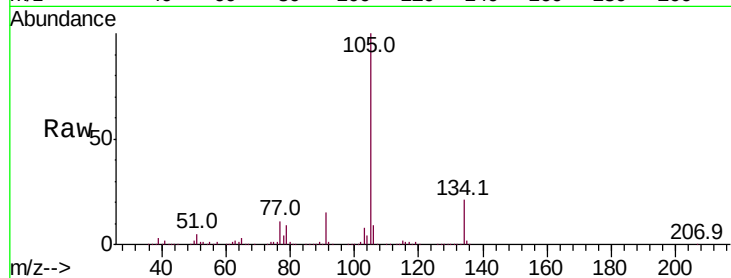
134 20.5 10.1 30.1

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#86

p-Isopropyltoluene

Concen: 137.650 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN056855.D

Acq: 22 Jul 2019 13:58

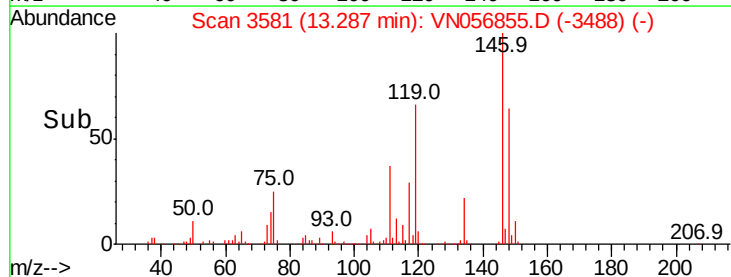
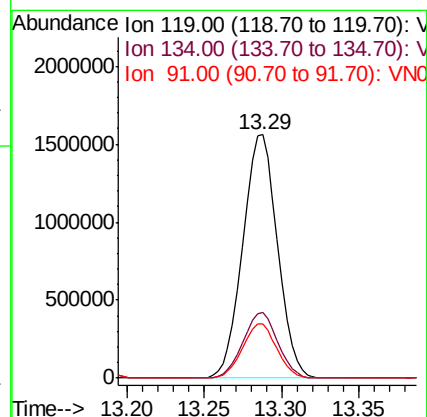
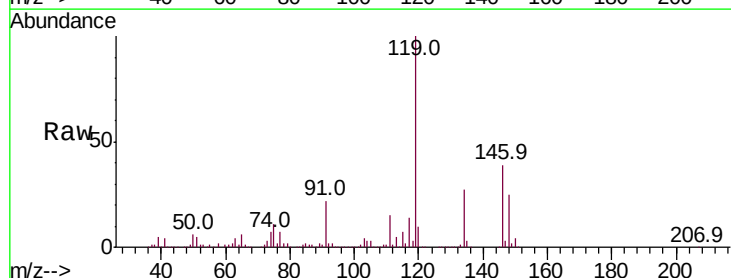
Tgt Ion:119 Resp: 2434218

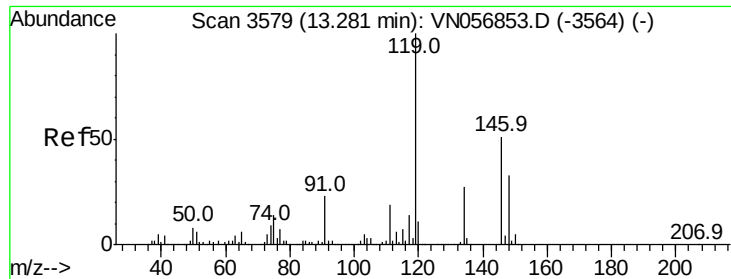
Ion Ratio Lower Upper

119 100

134 26.9 13.6 40.8

91 22.0 11.3 33.8





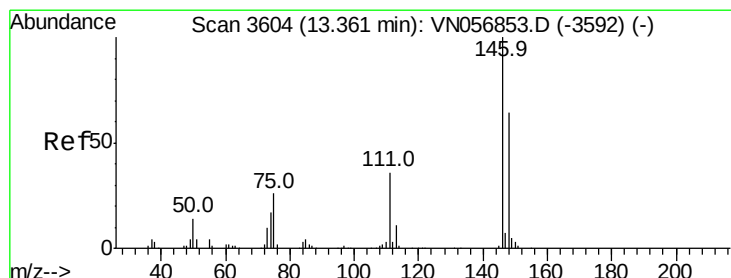
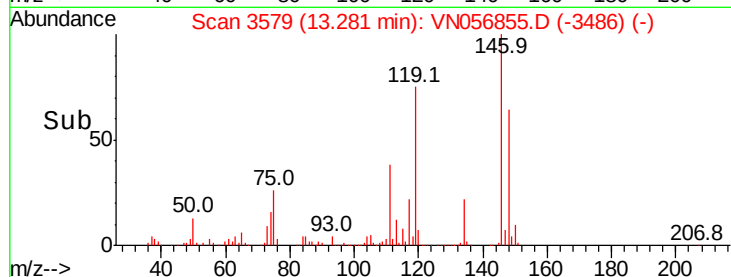
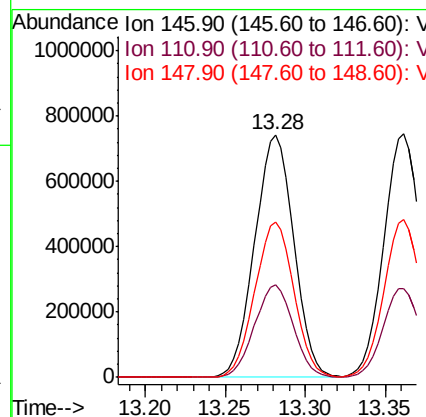
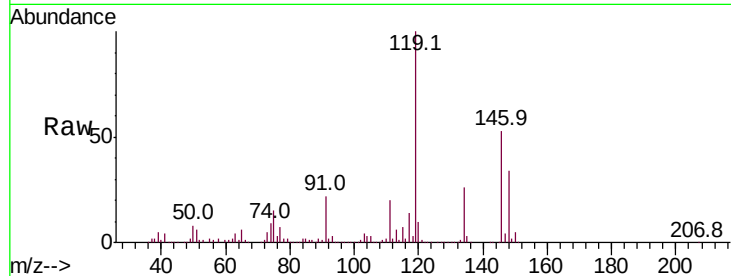
#87
 1,3-Dichlorobenzene
 Concen: 140.761 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. 0.00 min
 Lab File: VN056855.D
 Acq: 22 Jul 2019 13:58

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC150

Tot Ion:146 Resp: 1243792
 Ion Ratio Lower Upper
 146 100
 111 37.7 18.9 56.5
 148 63.9 32.1 96.3

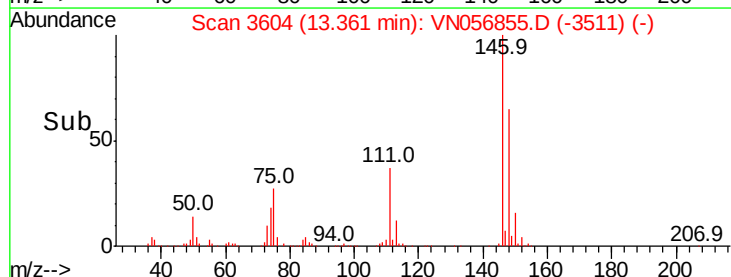
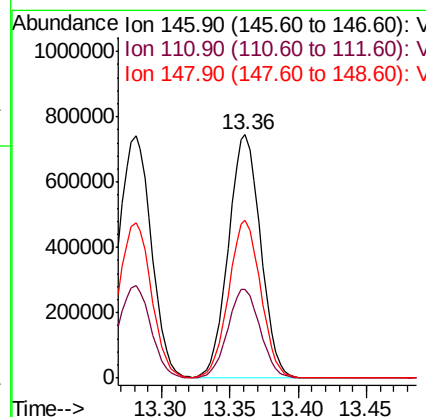
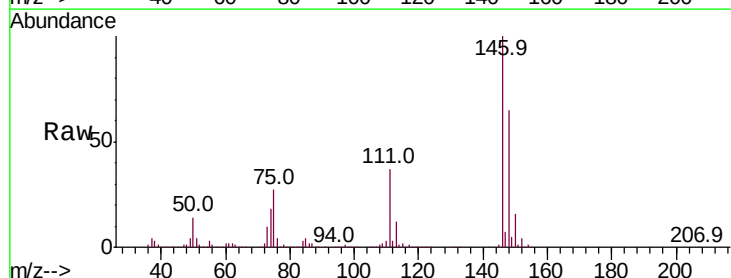
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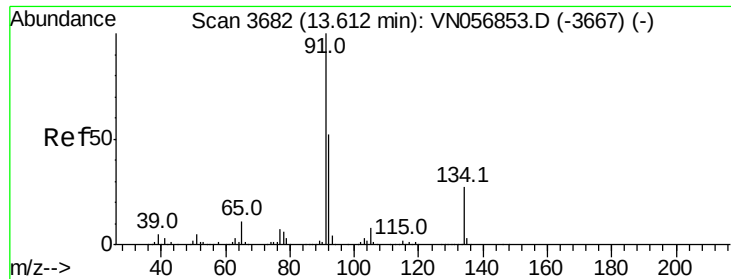
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#88
 1,4-Dichlorobenzene
 Concen: 142.004 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. 0.00 min
 Lab File: VN056855.D
 Acq: 22 Jul 2019 13:58

Tgt Ion:146 Resp: 1220191
 Ion Ratio Lower Upper
 146 100
 111 36.7 18.3 54.9
 148 64.8 32.1 96.3





#89

n-Butylbenzene

Concen: 147.718 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. 0.00 min

Lab File: VN056855.D

Acq: 22 Jul 2019 13:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 91 Resp: 2091932

Ion Ratio Lower Upper

91 100

92 52.9 26.0 78.0

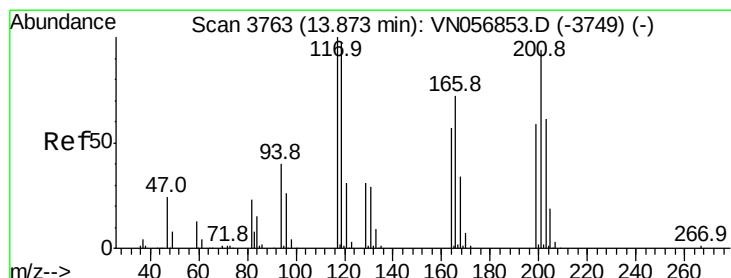
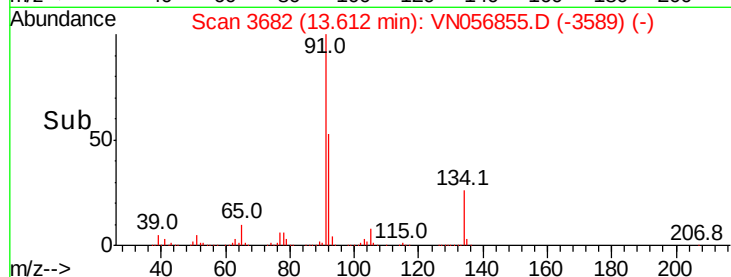
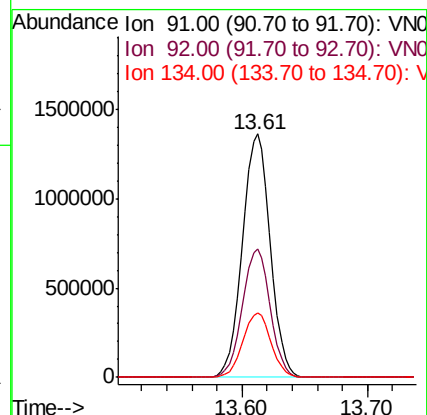
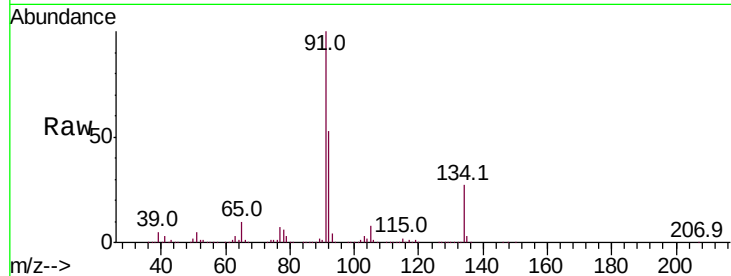
134 26.8 13.3 39.9

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#90

Hexachloroethane

Concen: 147.463 ug/l

RT: 13.87 min Scan# 3763

Delta R.T. 0.00 min

Lab File: VN056855.D

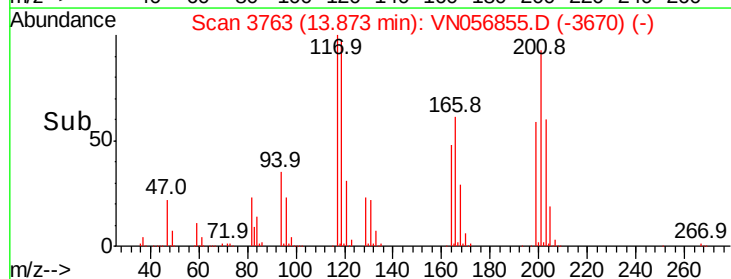
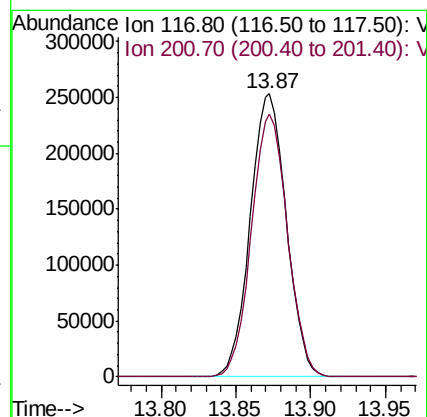
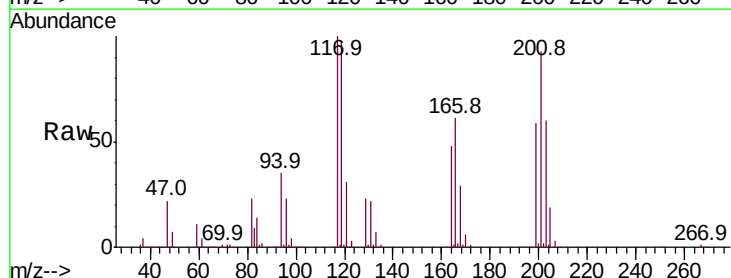
Acq: 22 Jul 2019 13:58

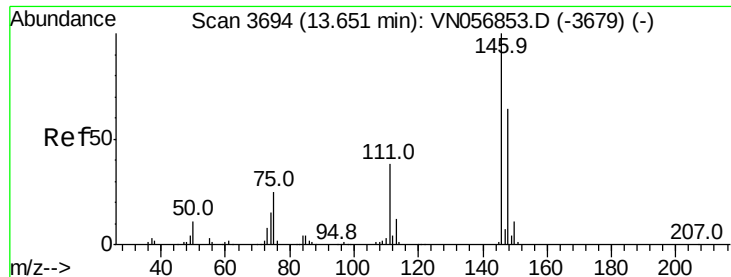
Tgt Ion: 117 Resp: 425116

Ion Ratio Lower Upper

117 100

201 92.8 47.1 141.3





#91

1,2-Dichlorobenzene

Concen: 134.802 ug/l

RT: 13.65 min Scan# 3694

Delta R.T. 0.00 min

Lab File: VN056855.D

Acq: 22 Jul 2019 13:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:146 Resp: 1216193

Ion Ratio Lower Upper

146 100

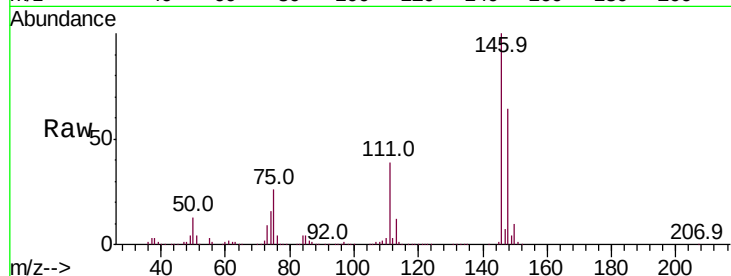
111 39.0 19.1 57.5

148 63.8 32.1 96.5

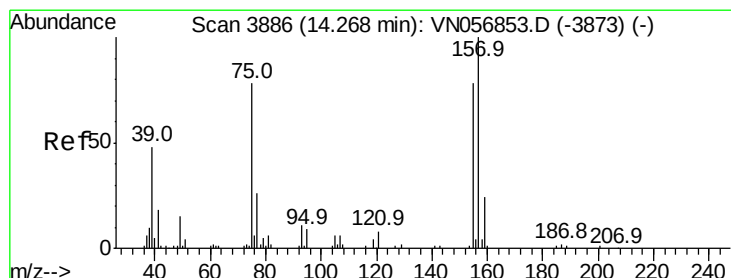
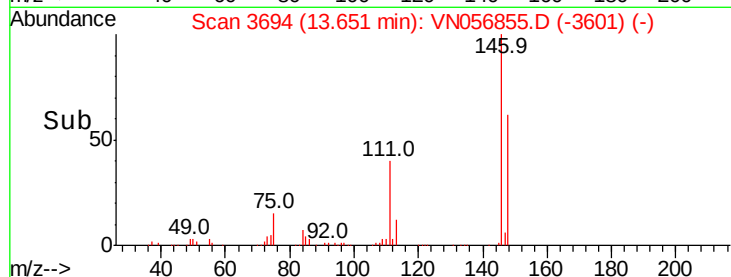
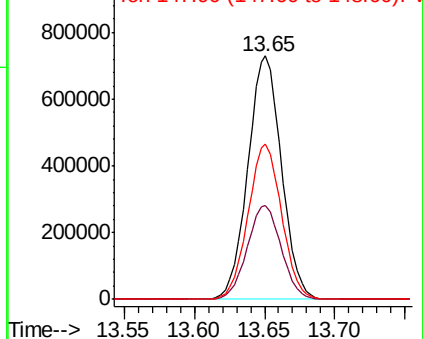
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Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 131.025 ug/l

RT: 14.27 min Scan# 3886

Delta R.T. 0.00 min

Lab File: VN056855.D

Acq: 22 Jul 2019 13:58

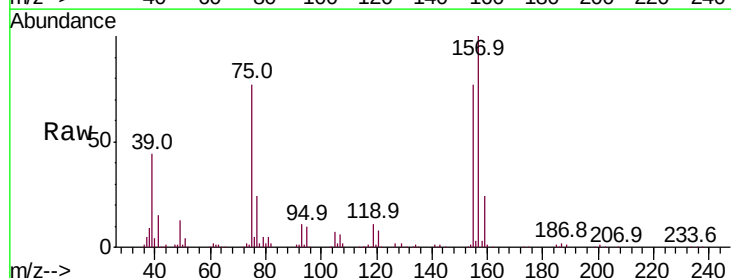
Tgt Ion: 75 Resp: 140695

Ion Ratio Lower Upper

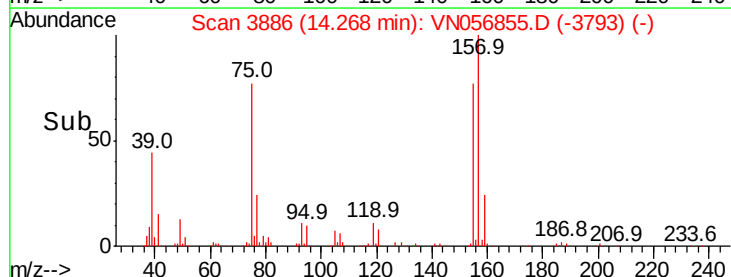
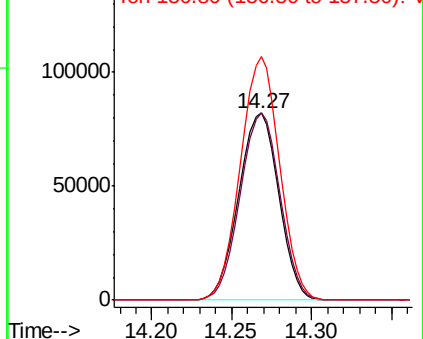
75 100

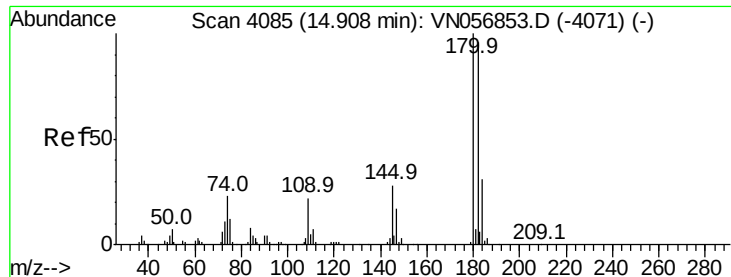
155 99.4 49.9 149.6

157 126.9 64.8 194.4



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 154.80 (154.50 to 155.50): V
Ion 156.80 (156.50 to 157.50): V





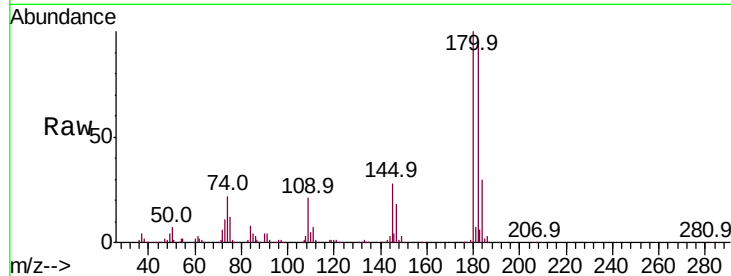
#93
 1,2,4-Trichlorobenzene
 Concen: 189.705 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN056855.D
 Acq: 22 Jul 2019 13:58

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	95.0	47.9	143.7	
145	28.4	14.1	42.3	

Manual Integrations
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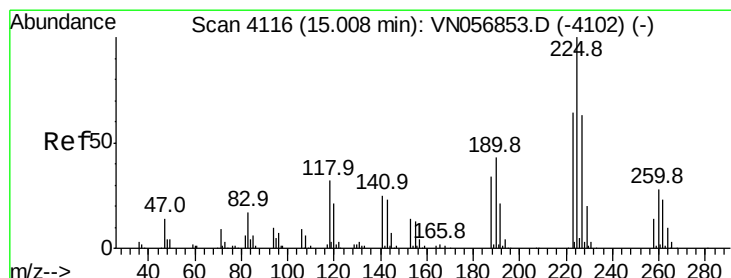
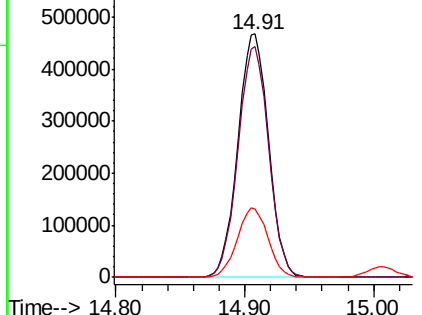
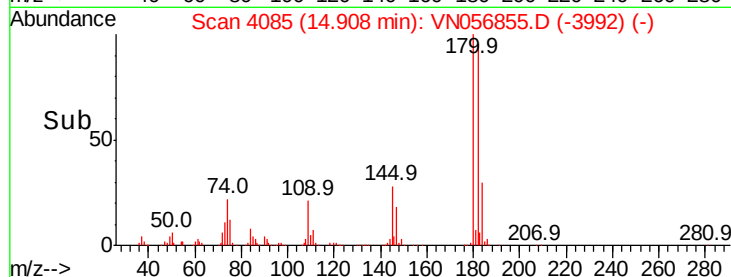


Abundance

Ion 179.80 (179.50 to 180.50): V

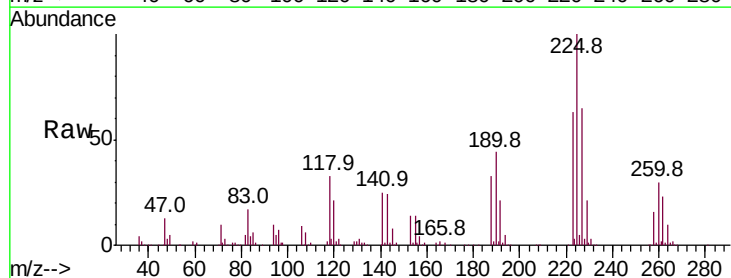
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
 Hexachlorobutadiene
 Concen: 130.480 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN056855.D
 Acq: 22 Jul 2019 13:58

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	63.5	31.9	95.5	
227	64.5	31.7	95.1	

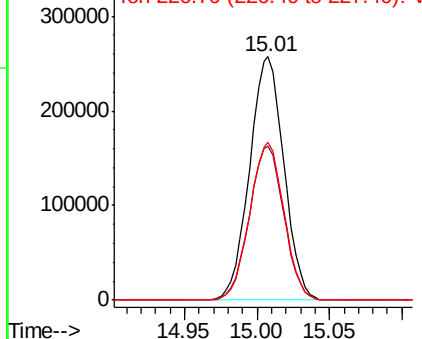
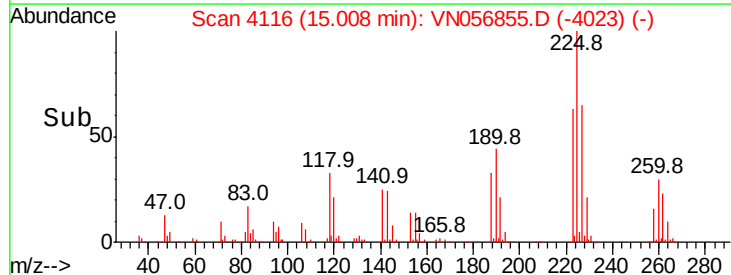


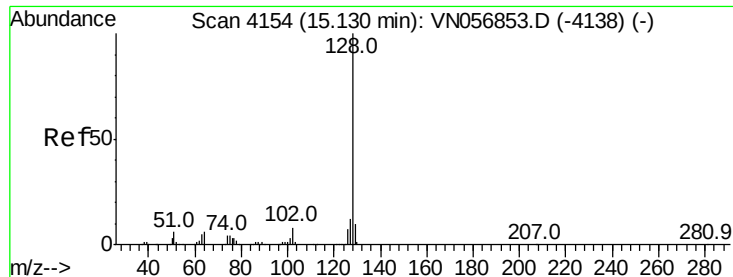
Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 178.800 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN056855.D

Acq: 22 Jul 2019 13:58

Instrument :

MSVOA_N

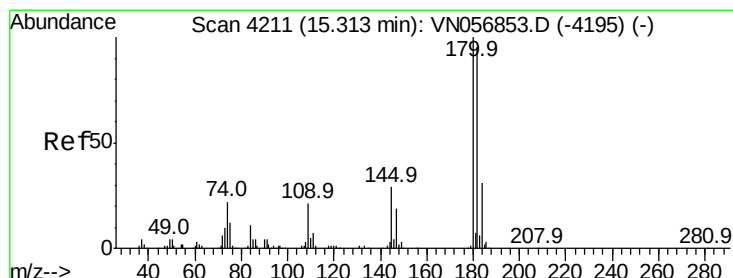
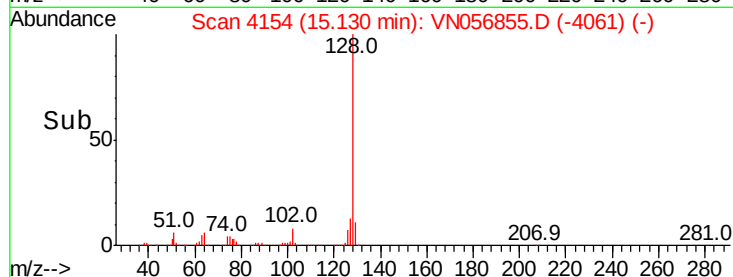
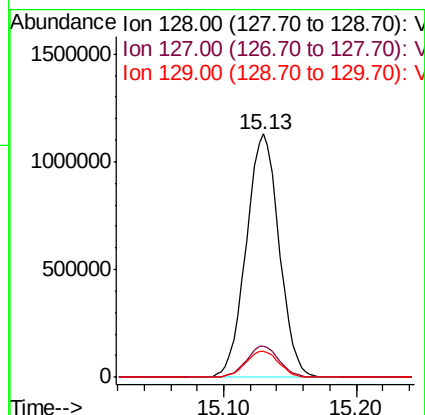
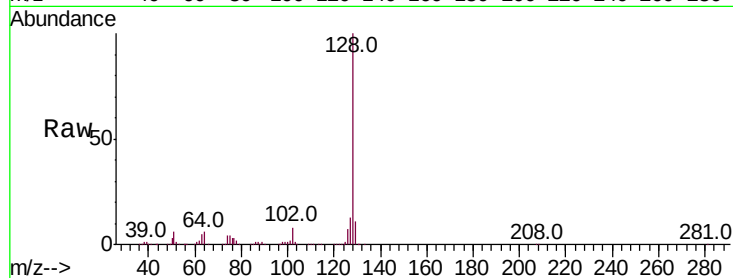
ClientSampleId :

VSTDIC150

Tot Ion:	128	Resp:	1941726
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.2	15.2
129	10.9	8.5	12.7

Manual Integrations
APPROVED

MMDadoda
7/25/2019 3:01:28 PM



#96

1,2,3-Trichlorobenzene

Concen: 178.652 ug/l

RT: 15.31 min Scan# 4210

Delta R.T. -0.00 min

Lab File: VN056855.D

Acq: 22 Jul 2019 13:58

Tgt Ion:	180	Resp:	758852
Ion	Ratio	Lower	Upper
180	100		
182	96.2	48.1	144.3
145	30.4	14.7	44.1

