

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052119\
 Data File : VN055702.D
 Acq On : 21 May 2019 12:18
 Operator : JC/SP
 Sample : VN0521MBSD01
 Misc : 5.00µg/10µL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0521MBSD01

Manual Integrations
 APPROVED

MMDadoda
 5/22/2019 4:11:25 PM

Quant Time: May 22 05:24:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 23:54:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	310086	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	452539	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	397109	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	171678	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.02	65	156026	45.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.80%	
35) Dibromofluoromethane	7.59	113	146625	51.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.00%	
50) Toluene-d8	10.09	98	541377	49.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.62%	
62) 4-Bromofluorobenzene	12.40	95	180875	48.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.38%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	48796	20.452	ug/l	99
3) Chloromethane	2.06	50	65186	20.484	ug/l	99
4) Vinyl Chloride	2.18	62	72196	20.951	ug/l	98
5) Bromomethane	2.53	94	48105	21.905	ug/l	99
6) Chloroethane	2.69	64	41687	21.788	ug/l	99
7) Trichlorofluoromethane	3.02	101	97071	21.983	ug/l	100
8) Diethyl Ether	3.41	74	40481	22.820	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.76	101	60093	22.322	ug/l	98
10) Methyl Iodide	3.96	142	83143	21.423	ug/l	98
11) Tert butyl alcohol	4.77	59	71442	112.705	ug/l	98
12) 1,1-Dichloroethene	3.74	96	60320	21.300	ug/l	96
13) Acrolein	3.60	56	28308	88.434	ug/l	98
14) Allyl chloride	4.32	41	97918	21.418	ug/l	99
15) Acrylonitrile	4.98	53	160303	113.667	ug/l	100
16) Acetone	3.81	43	140855	101.541	ug/l	98
17) Carbon Disulfide	4.06	76	153439	19.491	ug/l	99
18) Methyl Acetate	4.32	43	68165	22.921	ug/l	99
19) Methyl tert-butyl Ether	5.04	73	207998	22.202	ug/l	96
20) Methylene Chloride	4.55	84	70584	22.296	ug/l	94
21) trans-1,2-Dichloroethene	5.05	96	65543	21.727	ug/l	95
22) Diisopropyl ether	5.95	45	193973	21.412	ug/l	97
23) Vinyl Acetate	5.89	43	831099	108.120	ug/l	98
24) 1,1-Dichloroethane	5.85	63	116873	22.003	ug/l	99
25) 2-Butanone	6.83	43	211401	108.993	ug/l	99
26) 2,2-Dichloropropane	6.82	77	99696	21.148	ug/l	98
27) cis-1,2-Dichloroethene	6.83	96	78230	22.270	ug/l	95
28) Bromochloromethane	7.19	49	44303	19.172	ug/l	92
29) Tetrahydrofuran	7.21	42	138289	107.619	ug/l	97
30) Chloroform	7.37	83	121063	22.203	ug/l	98
31) Cyclohexane	7.65	56	103276	20.486	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	107174	21.915	ug/l	98
36) 1,1-Dichloropropene	7.79	75	86586	21.461	ug/l	99
37) Ethyl Acetate	6.92	43	89384	24.551	ug/l	99
38) Carbon Tetrachloride	7.77	117	95252	22.093	ug/l	100

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052119\
 Data File : VN055702.D
 Acq On : 21 May 2019 12:18
 Operator : JC/SP
 Sample : VN0521MBSD01
 Misc : 5.00µg/10mL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0521MBSD01

Manual Integrations
 APPROVED

MMDadoda
 5/22/2019 4:11:25 PM

Quant Time: May 22 05:24:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 23:54:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	105638	21.720	ug/l	98
40) Benzene	8.04	78	273037	23.008	ug/l	100
41) Methacrylonitrile	7.17	41	39265m	25.225	ug/l	
42) 1,2-Dichloroethane	8.12	62	89690	23.340	ug/l	100
43) Isopropyl Acetate	8.16	43	141710	22.376	ug/l	98
44) Trichloroethene	8.84	130	78271	23.374	ug/l	96
45) 1,2-Dichloropropane	9.12	63	71048	22.726	ug/l	100
46) Dibromomethane	9.21	93	48429	23.668	ug/l	97
47) Bromodichloromethane	9.40	83	97054	22.632	ug/l	100
48) Methyl methacrylate	9.20	41	65325	23.077	ug/l	98
49) 1,4-Dioxane	9.20	88	30457	541.477	ug/l	97
51) 4-Methyl-2-Pentanone	9.98	43	418300	112.601	ug/l	99
52) Toluene	10.16	92	173689	23.335	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	101193	21.924	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	113744	22.495	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	71518	23.339	ug/l	97
56) Ethyl methacrylate	10.43	69	107408	22.454	ug/l	97
57) 1,3-Dichloropropane	10.71	76	112881	23.259	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.69	63	172523	84.883	ug/l	97
59) 2-Hexanone	10.75	43	294162	112.470	ug/l	98
60) Dibromochloromethane	10.90	129	82650	23.798	ug/l	100
61) 1,2-Dibromoethane	11.00	107	74465	24.287	ug/l	98
64) Tetrachloroethene	10.63	164	74581	23.812	ug/l	97
65) Chlorobenzene	11.43	112	186370	23.204	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	75576	23.389	ug/l	99
67) Ethyl Benzene	11.51	91	325720	22.764	ug/l	97
68) m/p-Xylenes	11.62	106	249925	46.254	ug/l	97
69) o-Xylene	11.95	106	126290	23.896	ug/l	94
70) Styrene	11.96	104	203566	23.166	ug/l	99
71) Bromoform	12.12	173	63811	23.303	ug/l #	99
73) Isopropylbenzene	12.25	105	329057	26.165	ug/l	99
74) N-amyl acetate	12.07	43	113749	23.596	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.50	83	99296	25.380	ug/l	98
76) 1,2,3-Trichloropropane	12.55	75	80056m	22.853	ug/l	
77) Bromobenzene	12.53	156	92183	26.145	ug/l	87
78) n-propylbenzene	12.59	91	342966	22.496	ug/l	98
79) 2-Chlorotoluene	12.67	91	211790	25.121	ug/l	98
80) 1,3,5-Trimethylbenzene	12.73	105	281397	26.378	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	29268	21.477	ug/l	97
82) 4-Chlorotoluene	12.77	91	201306	22.411	ug/l	98
83) tert-Butylbenzene	12.99	119	245094	26.770	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	272002	25.618	ug/l	100
85) sec-Butylbenzene	13.17	105	309809	25.965	ug/l	99
86) p-Isopropyltoluene	13.29	119	286204	25.942	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	139727	23.969	ug/l	98
88) 1,4-Dichlorobenzene	13.36	146	129332	23.235	ug/l	99
89) n-Butylbenzene	13.61	91	216777	23.011	ug/l	99
90) Hexachloroethane	13.87	117	53312	25.033	ug/l	94
91) 1,2-Dichlorobenzene	13.65	146	137887	23.728	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	18151	23.297	ug/l	91

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052119\
Data File : VN055702.D
Acq On : 21 May 2019 12:18
Operator : JC/SP
Sample : VN0521MBSD01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0521MBSD01

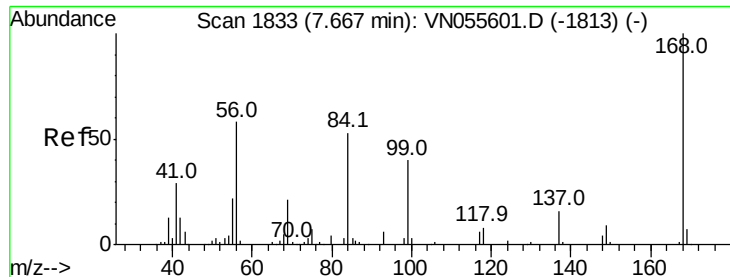
Manual Integrations
APPROVED

MMDadoda
5/22/2019 4:11:25 PM

Quant Time: May 22 05:24:44 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
Quant Title : SW846 8260
QLast Update : Fri May 17 23:54:12 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	66650	22.532	ug/l	98
94) Hexachlorobutadiene	15.01	225	50368	26.863	ug/l	98
95) Naphthalene	15.13	128	194563	22.789	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	70648	22.842	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN055702.D

Acq: 21 May 2019 12:18

Instrument :

MSVOA_N

ClientSampleId :

VN0521MBSD01

Tot Ion:168 Resp: 310086

Ion Ratio Lower Upper

168 100

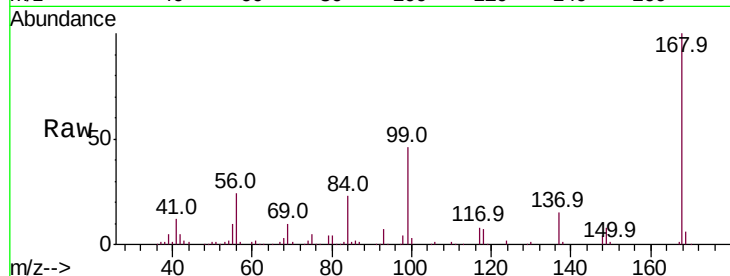
99 45.7 40.2 60.2

Manual Integrations

APPROVED

MMDadoda

5/22/2019 4:11:25 PM



Abundance Ion 167.90 (167.60 to 168.60): VN055601.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN055601.D (-1813) (-)

7.67

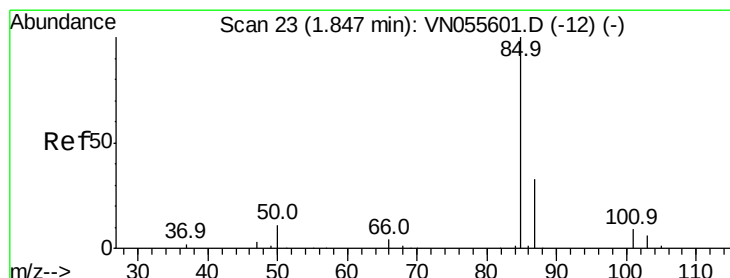
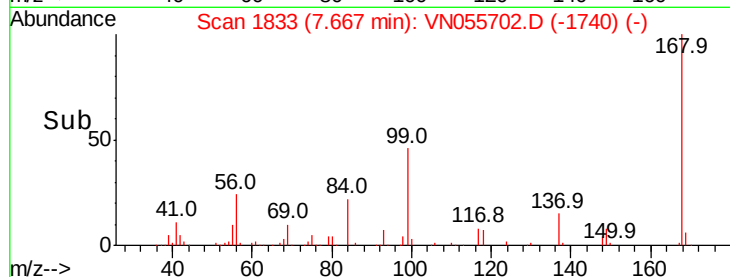
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 20.452 ug/l

RT: 1.85 min Scan# 23

Delta R.T. 0.00 min

Lab File: VN055702.D

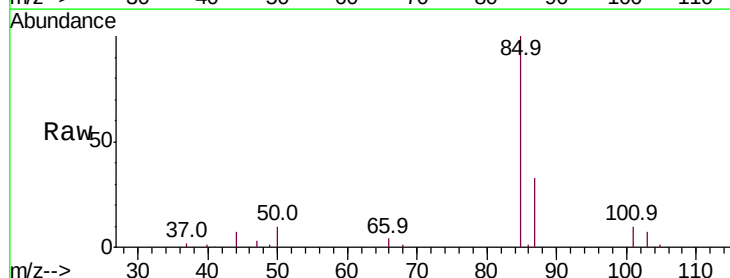
Acq: 21 May 2019 12:18

Tgt Ion: 85 Resp: 48796

Ion Ratio Lower Upper

85 100

87 32.8 16.6 49.7



Abundance Ion 84.90 (84.60 to 85.60): VN055601.D (-12) (-)

Ion 86.90 (86.60 to 87.60): VN055601.D (-12) (-)

1.85

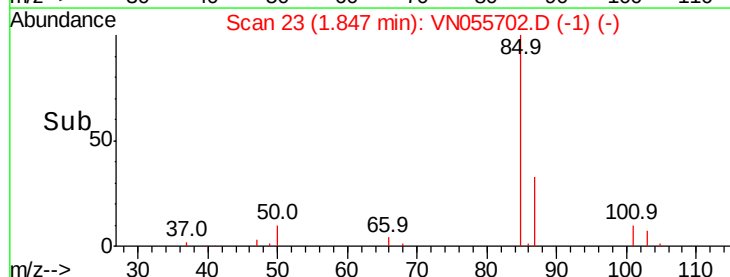
30000

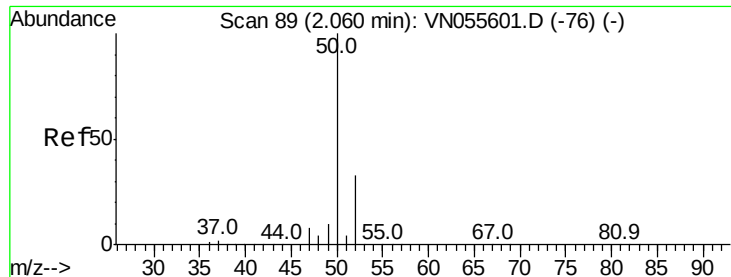
20000

10000

0

Time-->





#3

Chloromethane

Concen: 20.484 ug/l

RT: 2.06 min Scan# 88

Delta R.T. -0.00 min

Lab File: VN055702.D

Acq: 21 May 2019 12:18

Instrument :

MSVOA_N

ClientSampleId :

VN0521MBSD01

Tot Ion: 50 Resp: 65186

Ion Ratio Lower Upper

50 100

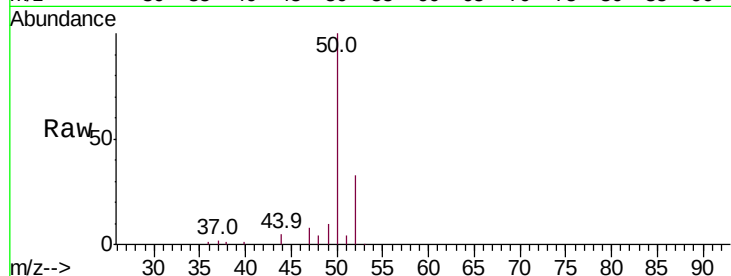
52 33.0 26.7 40.1

Manual Integrations

APPROVED

MMDadoda

5/22/2019 4:11:25 PM



Abundance Ion 49.90 (49.60 to 50.60): VNC

Ion 51.90 (51.60 to 52.60): VNC

2.06

50000

40000

30000

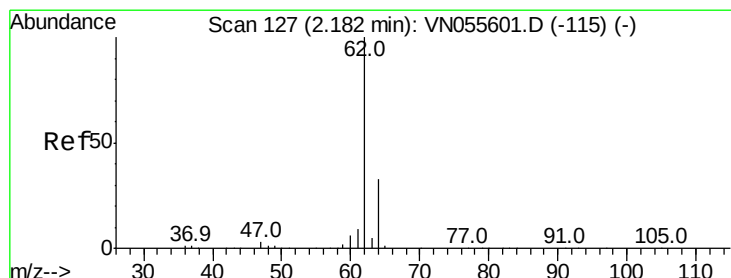
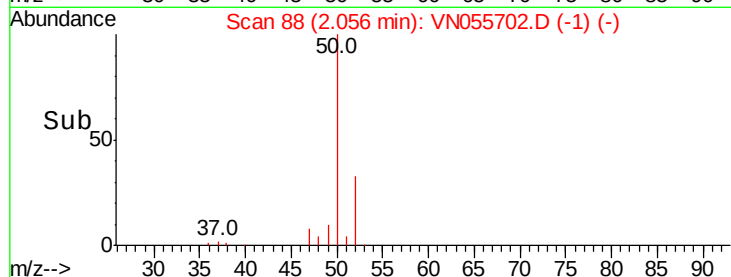
20000

10000

0

Time-->

2.00 2.05 2.10



#4

Vinyl Chloride

Concen: 20.951 ug/l

RT: 2.18 min Scan# 127

Delta R.T. 0.00 min

Lab File: VN055702.D

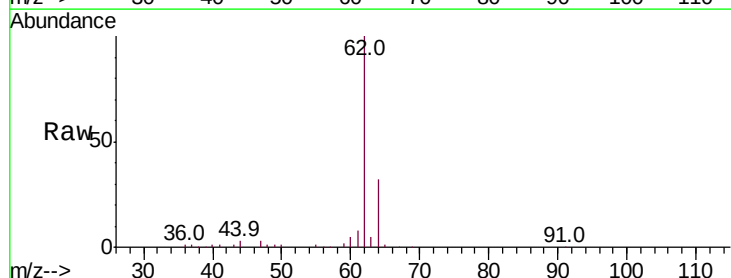
Acq: 21 May 2019 12:18

Tgt Ion: 62 Resp: 72196

Ion Ratio Lower Upper

62 100

64 31.8 26.2 39.4



Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 63.90 (63.60 to 64.60): VNC

2.18

50000

40000

30000

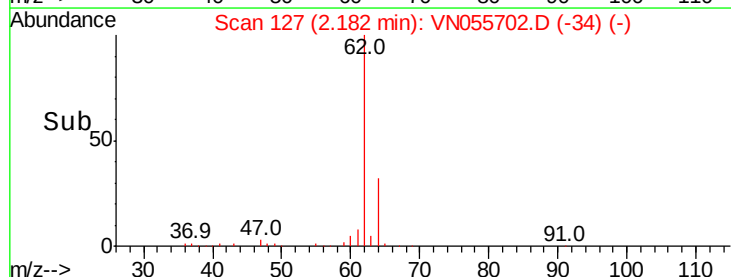
20000

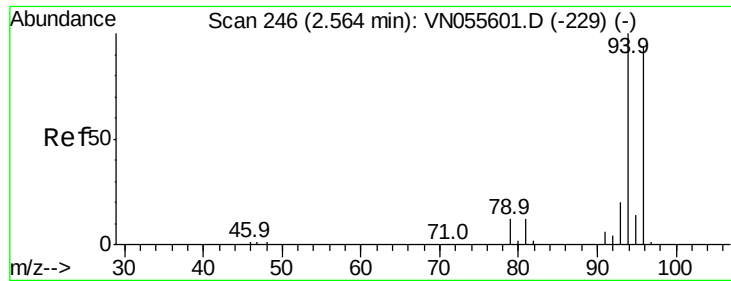
10000

0

Time-->

2.10 2.15 2.20 2.25





#5

Bromomethane

Concen: 21.905 ug/l

RT: 2.53 min Scan# 236

Delta R.T. -0.03 min

Lab File: VN055702.D

Acq: 21 May 2019 12:18

Instrument :

MSVOA_N

ClientSampleId :

VN0521MBSD01

Tot Ion: 94 Resp: 48105

Ion Ratio Lower Upper

94 100

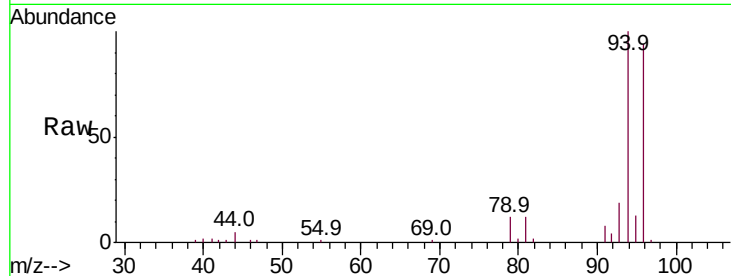
96 93.2 75.2 112.8

Manual Integrations

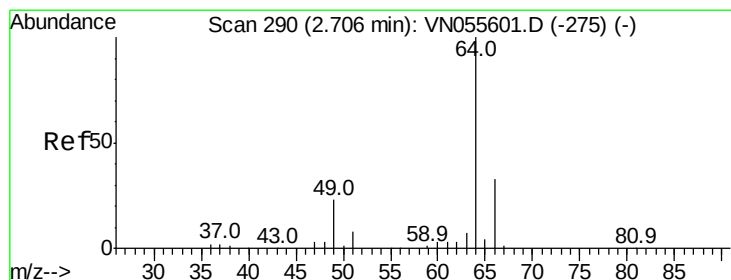
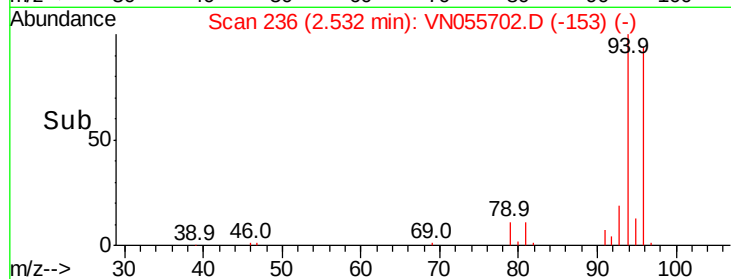
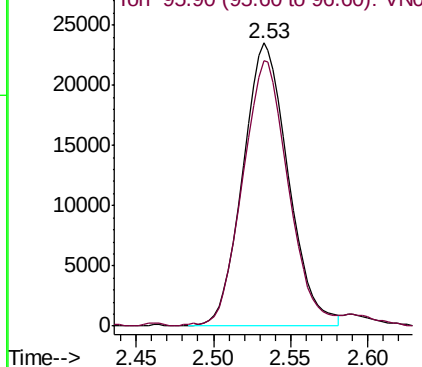
APPROVED

MMDadoda

5/22/2019 4:11:25 PM



Abundance Ion 93.90 (93.60 to 94.60): VN055702.D (-153) (-)



#6

Chloroethane

Concen: 21.788 ug/l

RT: 2.69 min Scan# 285

Delta R.T. -0.02 min

Lab File: VN055702.D

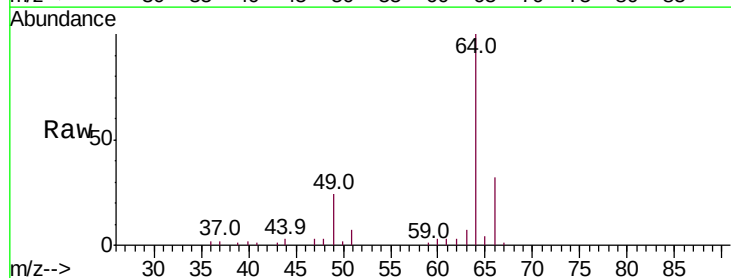
Acq: 21 May 2019 12:18

Tgt Ion: 64 Resp: 41687

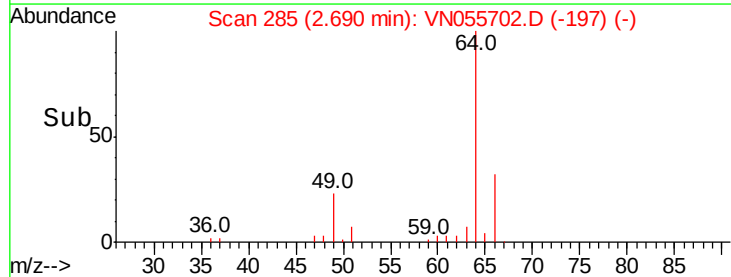
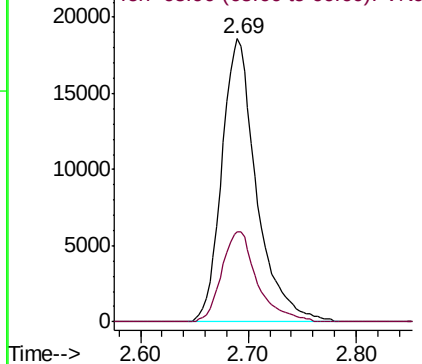
Ion Ratio Lower Upper

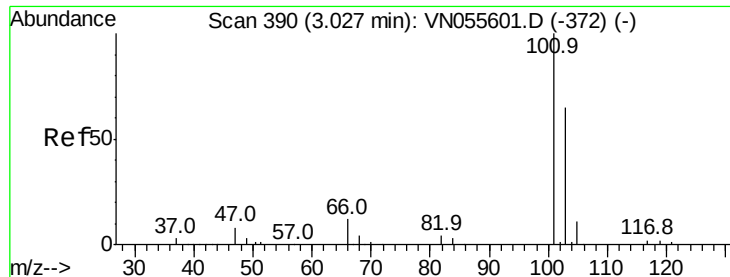
64 100

66 32.0 26.2 39.4



Abundance Ion 63.90 (63.60 to 64.60): VN055702.D (-197) (-)





#7

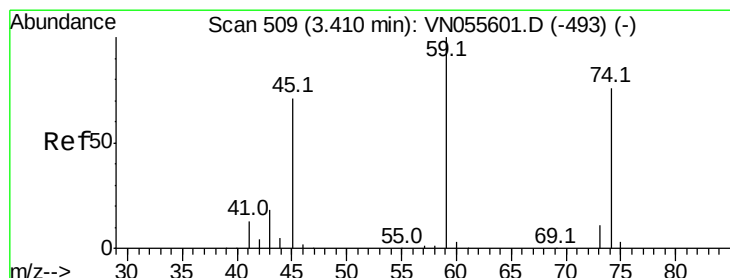
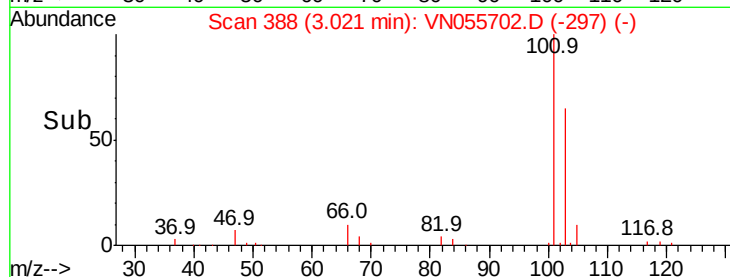
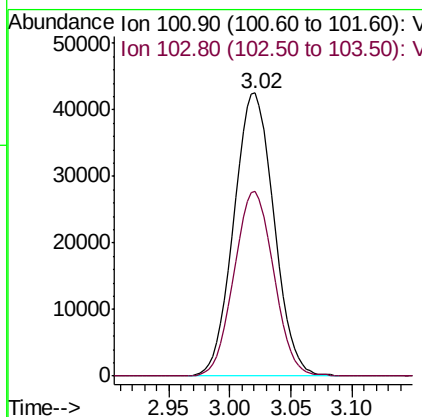
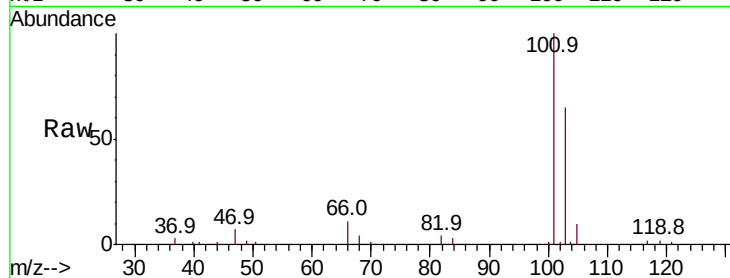
Trichlorofluoromethane
 Concen: 21.983 ug/l
 RT: 3.02 min Scan# 388
 Delta R.T. -0.01 min
 Lab File: VN055702.D
 Acq: 21 May 2019 12:18

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0521MBSD01

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.3	52.3	78.5

Manual Integrations
 APPROVED

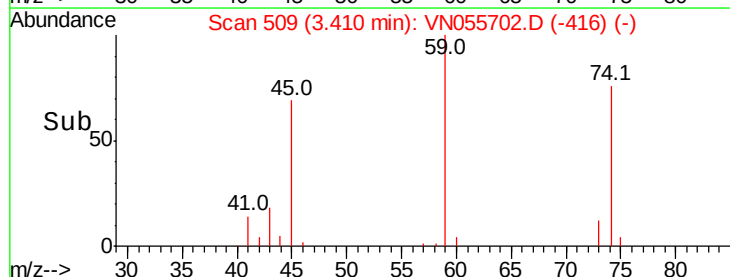
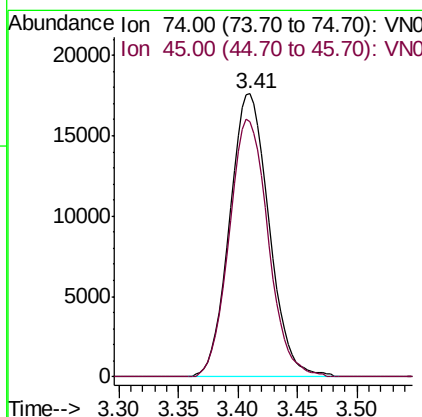
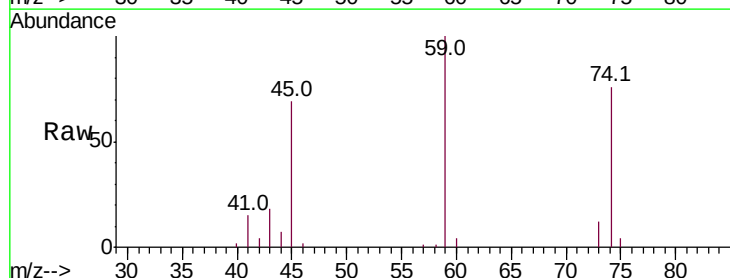
MMDadoda
 5/22/2019 4:11:25 PM

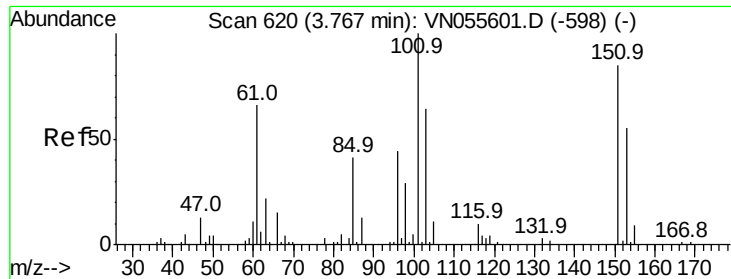


#8

Diethyl Ether
 Concen: 22.820 ug/l
 RT: 3.41 min Scan# 509
 Delta R.T. 0.00 min
 Lab File: VN055702.D
 Acq: 21 May 2019 12:18

Tgt Ion	Ratio	Lower	Upper
74	100		
45	90.1	46.4	139.2





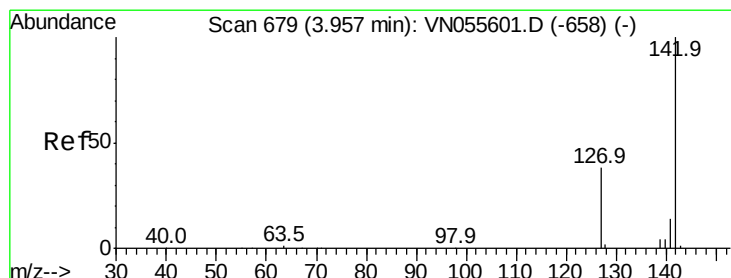
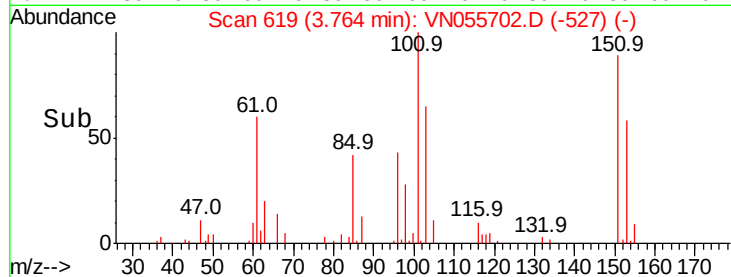
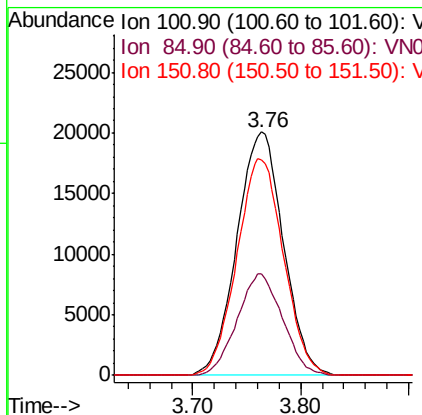
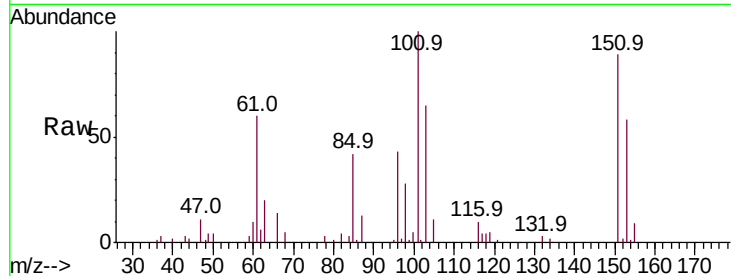
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 22.322 ug/l
 RT: 3.76 min Scan# 619
 Delta R.T. -0.00 min
 Lab File: VN055702.D
 Acq: 21 May 2019 12:18

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0521MBSD01

Tot Ion:	101	Resp:	60093
Ion Ratio	Lower	Upper	
101	100		
85	40.5	33.4	50.0
151	89.1	69.3	103.9

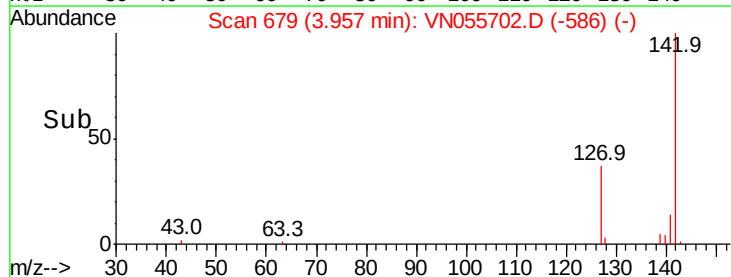
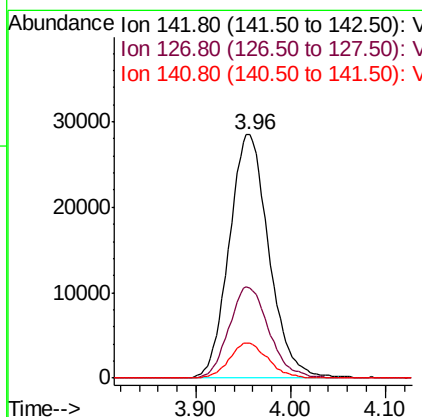
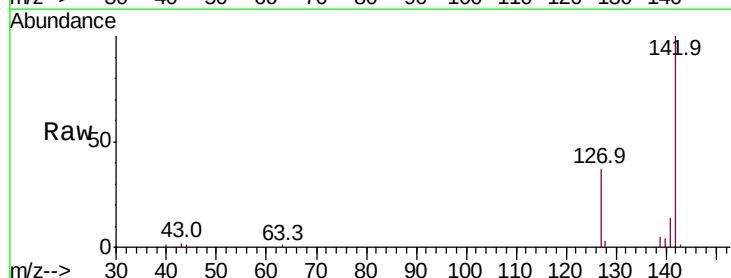
Manual Integrations
 APPROVED

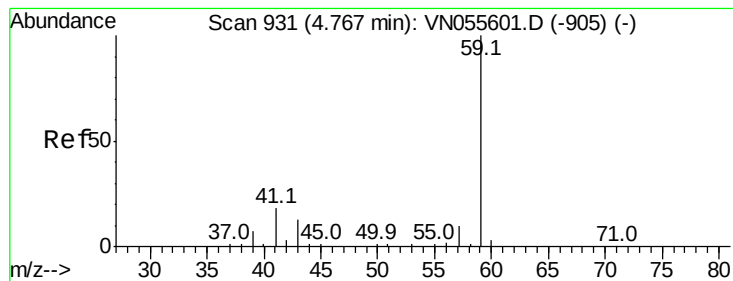
MMDadoda
 5/22/2019 4:11:25 PM



#10
 Methyl Iodide
 Concen: 21.423 ug/l
 RT: 3.96 min Scan# 679
 Delta R.T. 0.00 min
 Lab File: VN055702.D
 Acq: 21 May 2019 12:18

Tgt Ion:	142	Resp:	83143
Ion Ratio	Lower	Upper	
142	100		
127	37.6	31.0	46.4
141	13.9	11.5	17.3





#11

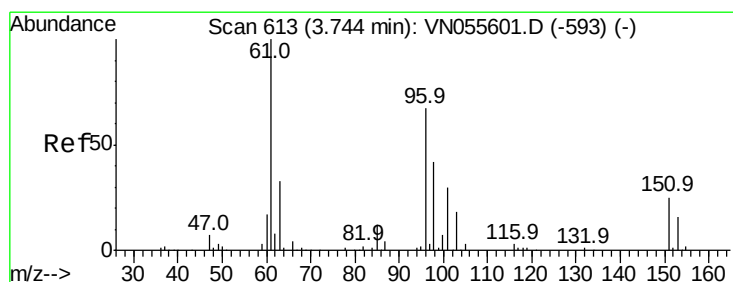
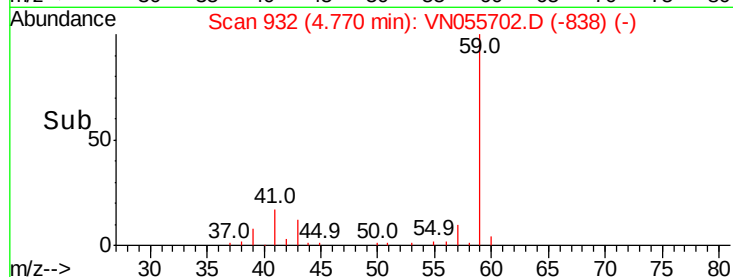
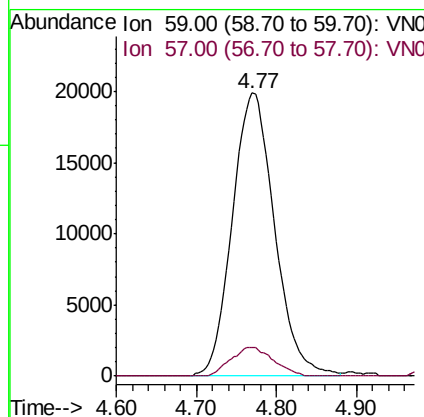
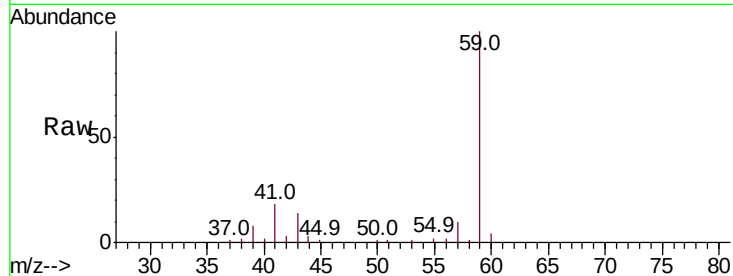
Tert butyl alcohol
 Concen: 112.705 ug/l
 RT: 4.77 min Scan# 932
 Delta R.T. 0.00 min
 Lab File: VN055702.D
 Acq: 21 May 2019 12:18

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0521MBSD01

Tot Ion	59	57	Ratio	100	10.3	Resp	71442	Lower	Upper
Ion	59	57	Ratio	100	10.3	Resp	71442	Lower	Upper
								7.8	11.6

Manual Integrations
 APPROVED

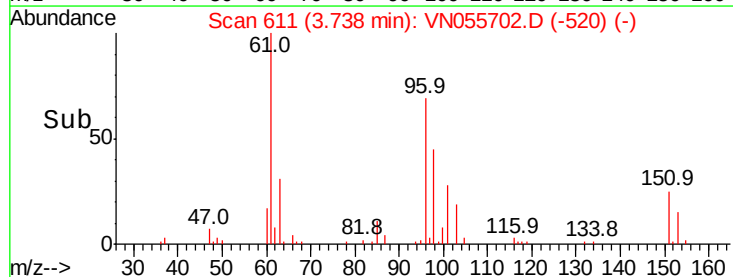
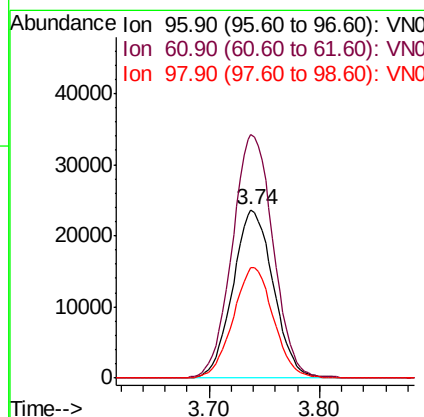
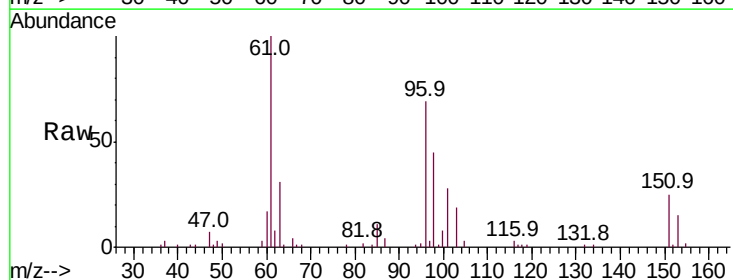
MMDadoda
 5/22/2019 4:11:25 PM

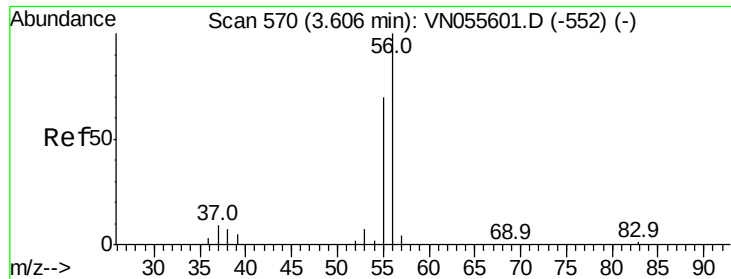


#12

1,1-Dichloroethene
 Concen: 21.300 ug/l
 RT: 3.74 min Scan# 611
 Delta R.T. -0.01 min
 Lab File: VN055702.D
 Acq: 21 May 2019 12:18

Tgt Ion	96	61	98	Ratio	100	144.6	65.6	Resp	60320	Lower	Upper
Ion	96	61	98	Ratio	100	144.6	65.6	Resp	60320	Lower	Upper
										120.2	180.2
										50.6	75.8





#13

Acrolein

Concen: 88.434 ug/l

RT: 3.60 min Scan# 569

Delta R.T. -0.00 min

Lab File: VN055702.D

Acq: 21 May 2019 12:18

Instrument :

MSVOA_N

ClientSampleId :

VN0521MBSD01

Tot Ion: 56 Resp: 28308

Ion Ratio Lower Upper

56 100

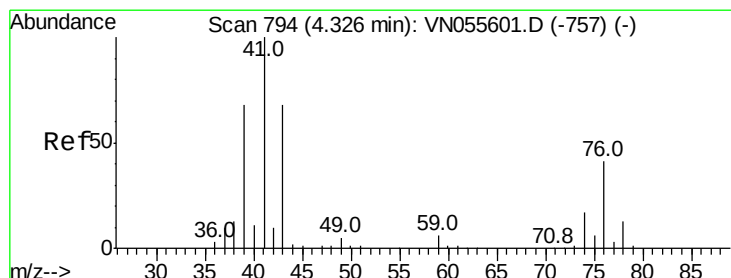
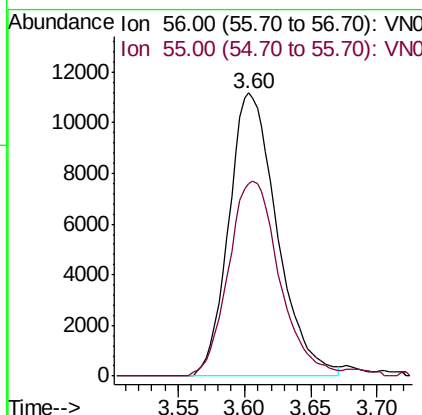
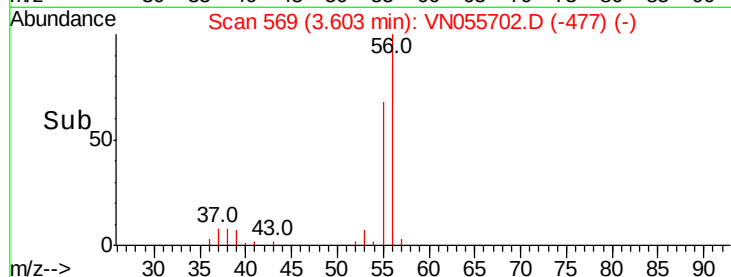
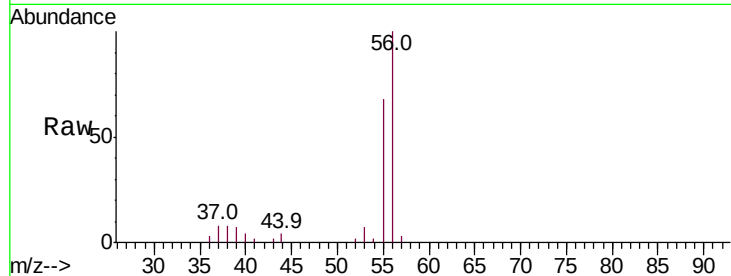
55 72.6 56.5 84.7

Manual Integrations

APPROVED

MMDadoda

5/22/2019 4:11:25 PM



#14

Allyl chloride

Concen: 21.418 ug/l

RT: 4.32 min Scan# 793

Delta R.T. -0.00 min

Lab File: VN055702.D

Acq: 21 May 2019 12:18

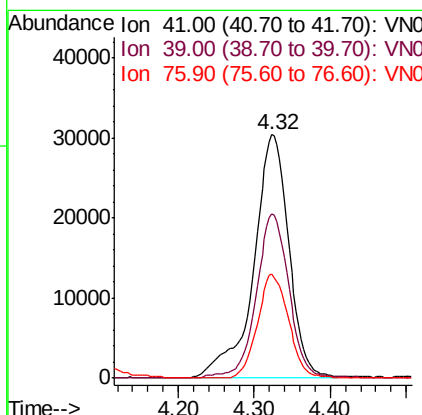
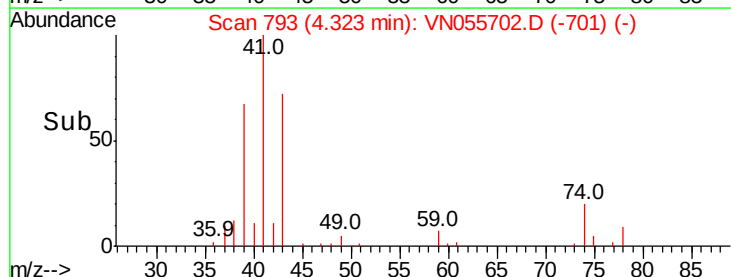
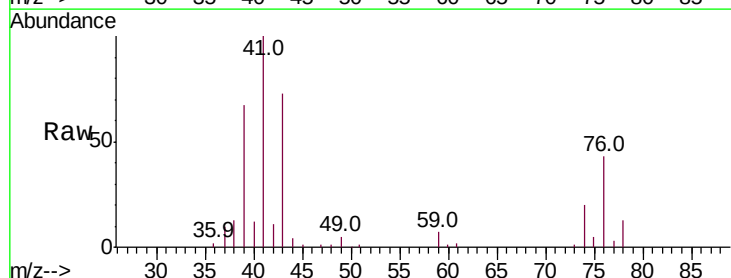
Tgt Ion: 41 Resp: 97918

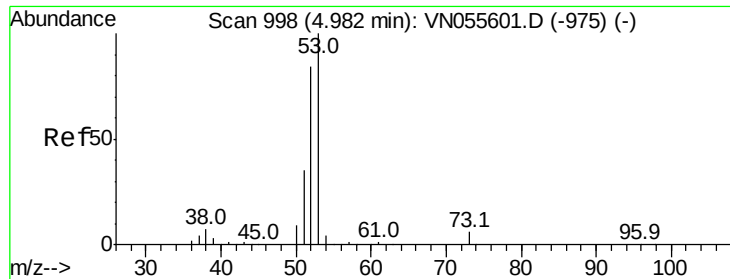
Ion Ratio Lower Upper

41 100

39 62.4 50.5 75.7

76 37.4 29.2 43.8





#15

Acrylonitrile

Concen: 113.667 ug/l

RT: 4.98 min Scan# 998

Delta R.T. 0.00 min

Lab File: VN055702.D

Acq: 21 May 2019 12:18

Instrument :

MSVOA_N

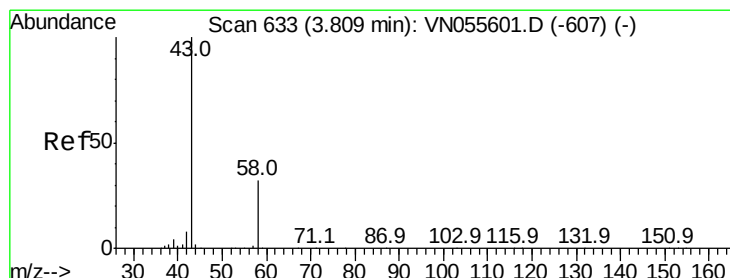
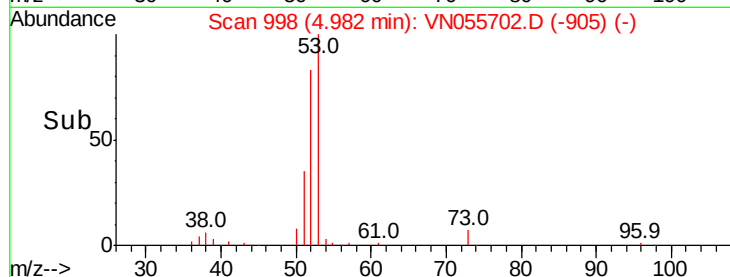
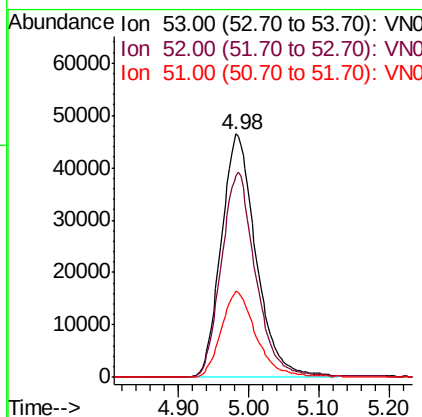
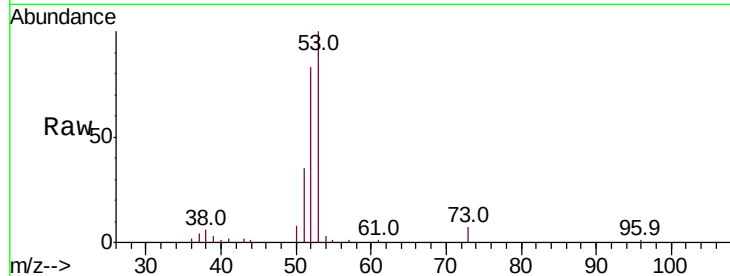
ClientSampleId :

VN0521MBSD01

Tot Ion	53	Resp	160303
Ion	Ratio	Lower	Upper
53	100		
52	83.1	66.2	99.4
51	35.3	28.5	42.7

Manual Integrations
APPROVED

MMDadoda
5/22/2019 4:11:25 PM



#16

Acetone

Concen: 101.541 ug/l

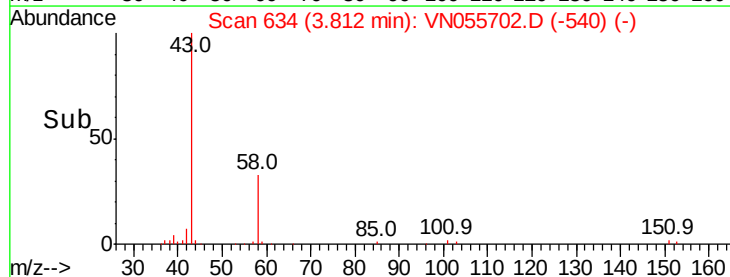
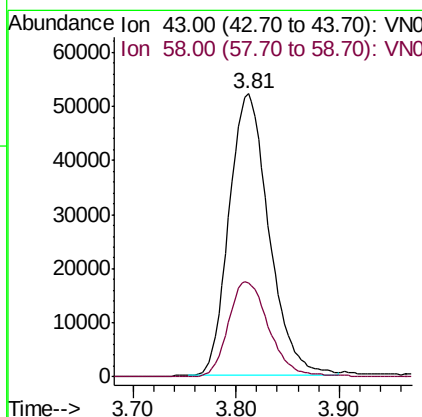
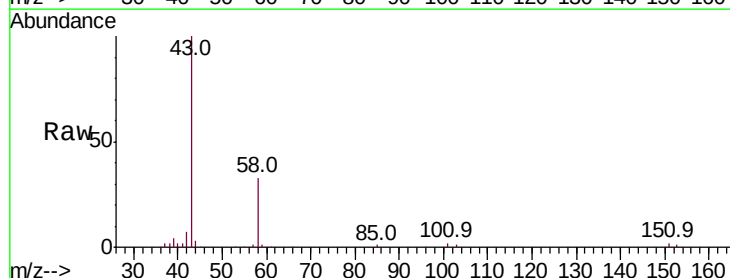
RT: 3.81 min Scan# 634

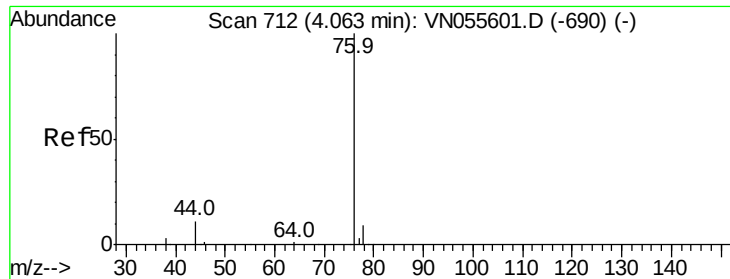
Delta R.T. 0.00 min

Lab File: VN055702.D

Acq: 21 May 2019 12:18

Tgt Ion	43	Resp	140855
Ion	Ratio	Lower	Upper
43	100		
58	33.5	26.0	39.0





#17

Carbon Disulfide

Concen: 19.491 ug/l

RT: 4.06 min Scan# 710

Delta R.T. -0.01 min

Lab File: VN055702.D

Acq: 21 May 2019 12:18

Instrument :

MSVOA_N

ClientSampleId :

VN0521MBSD01

Tot Ion: 76 Resp: 153439

Ion Ratio Lower Upper

76 100

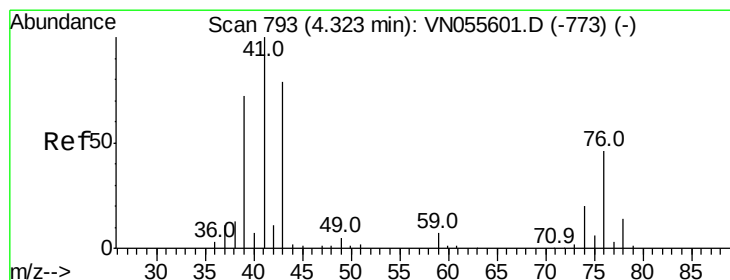
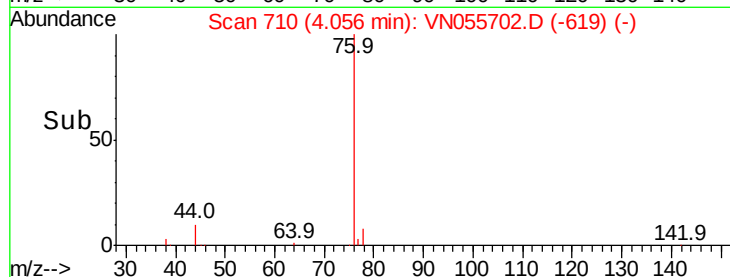
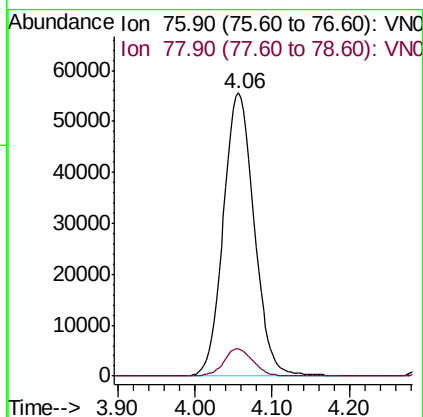
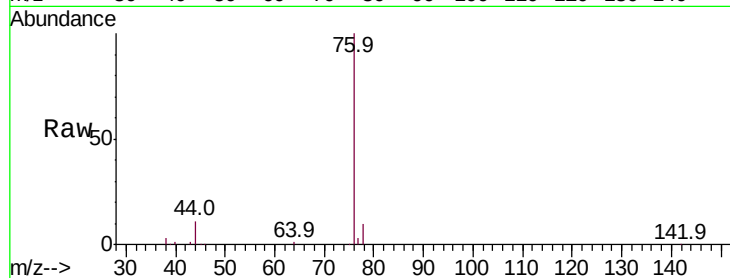
78 9.5 7.3 10.9

Manual Integrations

APPROVED

MMDadoda

5/22/2019 4:11:25 PM



#18

Methyl Acetate

Concen: 22.921 ug/l

RT: 4.32 min Scan# 792

Delta R.T. -0.00 min

Lab File: VN055702.D

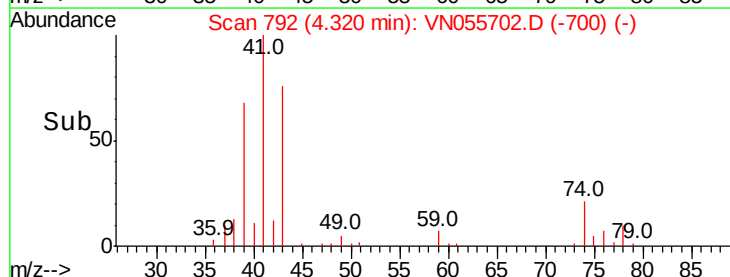
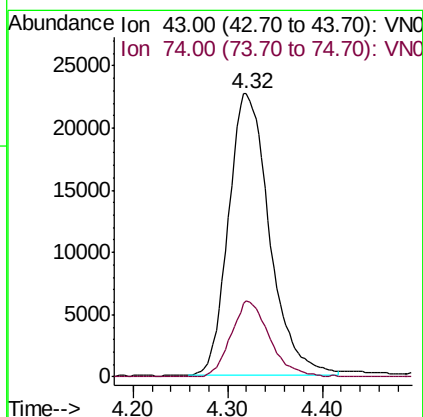
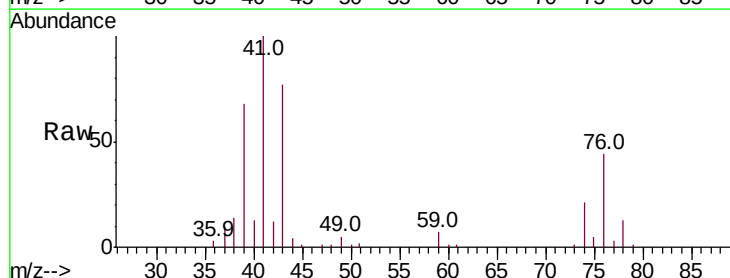
Acq: 21 May 2019 12:18

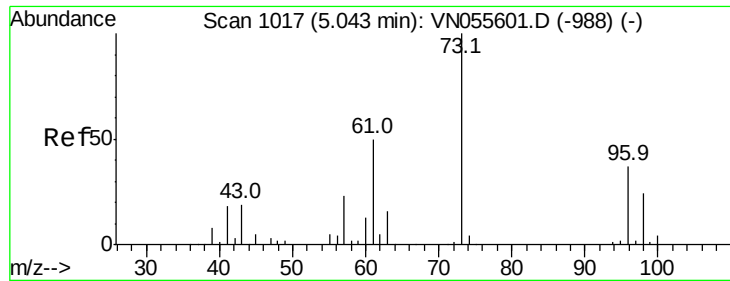
Tgt Ion: 43 Resp: 68165

Ion Ratio Lower Upper

43 100

74 25.3 19.9 29.9





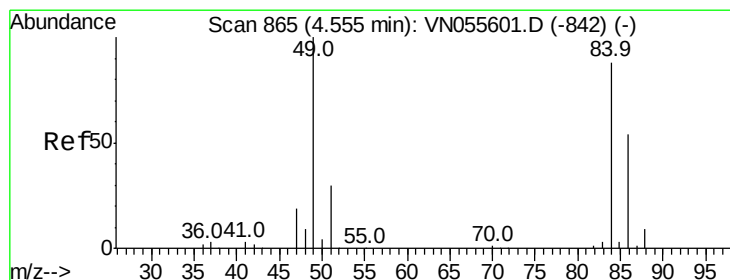
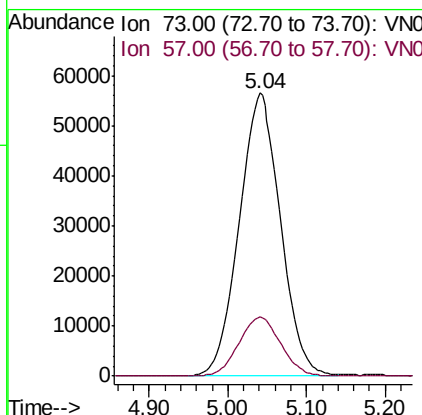
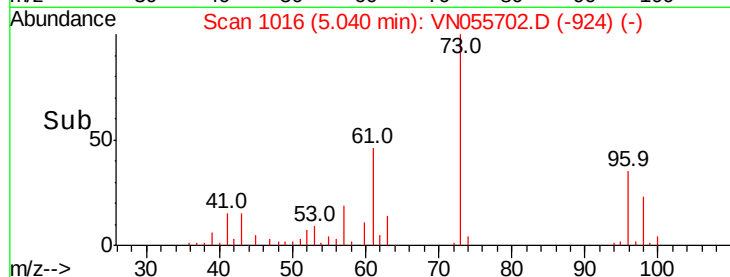
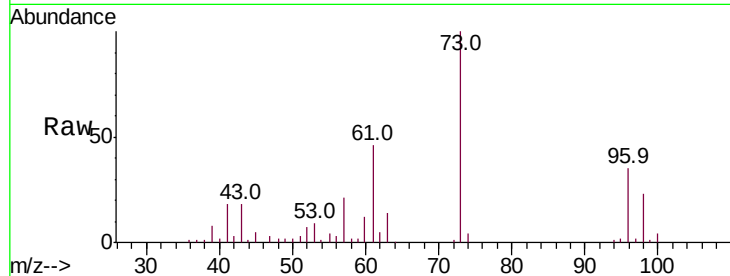
#19
Methyl tert-butyl Ether
Concen: 22.202 ug/l
RT: 5.04 min Scan# 1016
Delta R.T. -0.00 min
Lab File: VN055702.D
Acq: 21 May 2019 12:18

Instrument :
MSVOA_N
ClientSampleId :
VN0521MBSD01

Tot Ion	Ratio	Lower	Upper
73	100		
57	20.8	18.2	27.2

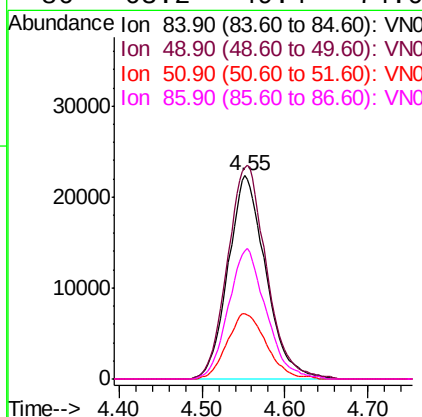
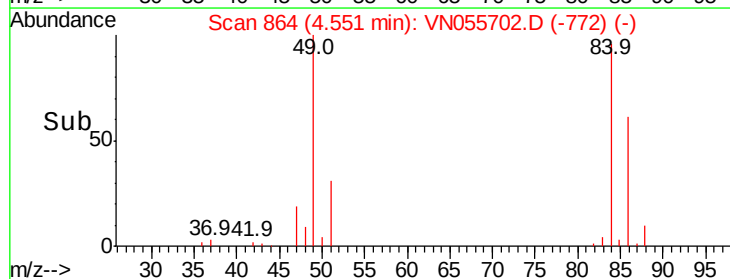
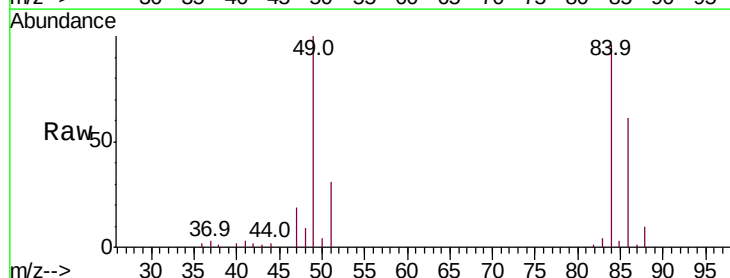
Manual Integrations
APPROVED

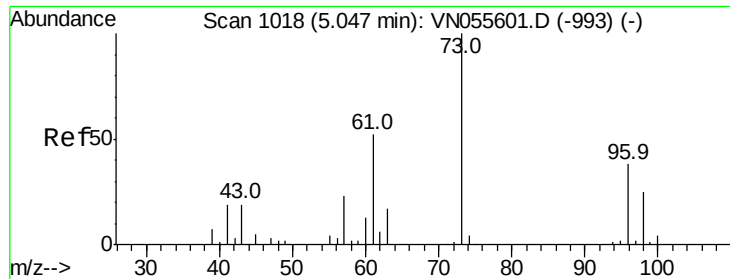
MMDadoda
5/22/2019 4:11:25 PM



#20
Methylene Chloride
Concen: 22.296 ug/l
RT: 4.55 min Scan# 864
Delta R.T. -0.00 min
Lab File: VN055702.D
Acq: 21 May 2019 12:18

Tgt Ion	Ratio	Lower	Upper
84	100		
49	104.2	91.0	136.4
51	32.2	27.5	41.3
86	63.2	49.4	74.0





#21

trans-1,2-Dichloroethene

Concen: 21.727 ug/l

RT: 5.05 min Scan# 1018

Delta R.T. 0.00 min

Lab File: VN055702.D

Acq: 21 May 2019 12:18

Instrument :

MSVOA_N

ClientSampleId :

VN0521MBSD01

Tot Ion: 96 Resp: 65543

Ion Ratio Lower Upper

96 100

61 127.5 108.6 162.8

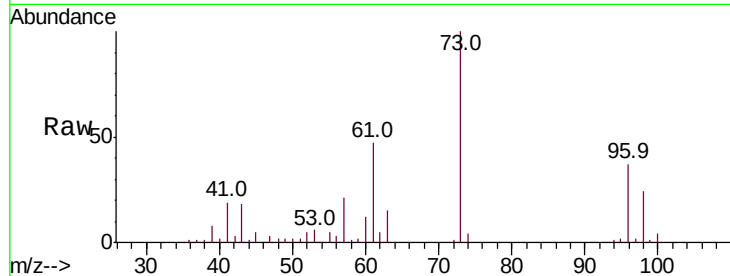
98 63.9 51.4 77.0

Manual Integrations

APPROVED

MMDadoda

5/22/2019 4:11:25 PM

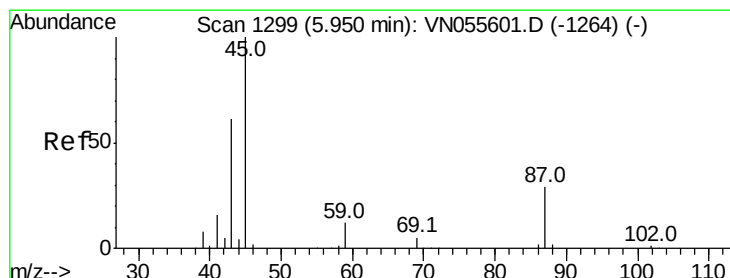
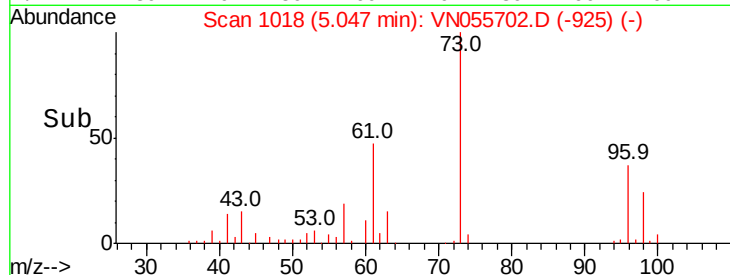
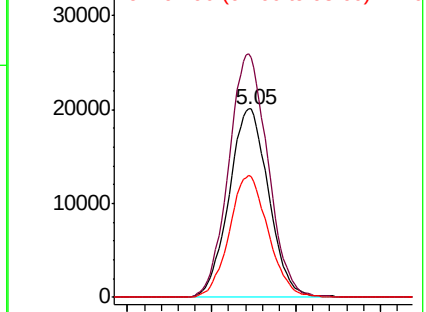


Abundance

Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#22

Diisopropyl ether

Concen: 21.412 ug/l

RT: 5.95 min Scan# 1298

Delta R.T. -0.00 min

Lab File: VN055702.D

Acq: 21 May 2019 12:18

Tgt Ion: 45 Resp: 193973

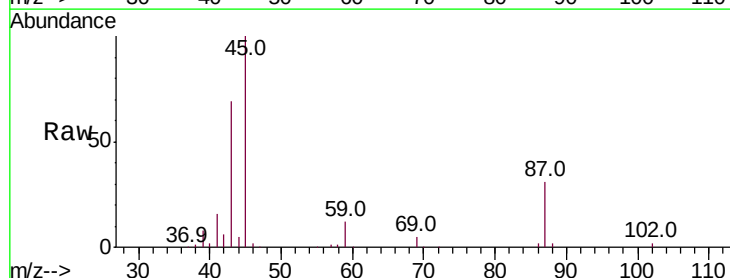
Ion Ratio Lower Upper

45 100

43 65.7 50.4 75.6

87 30.5 23.8 35.6

59 12.1 9.5 14.3



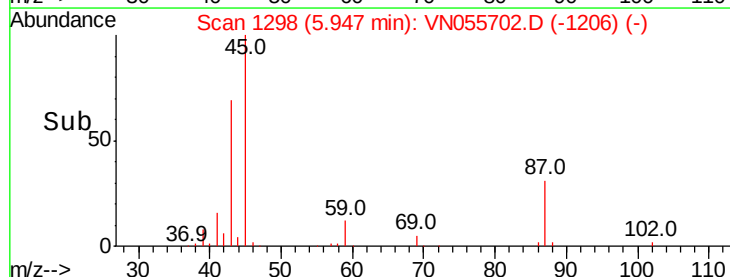
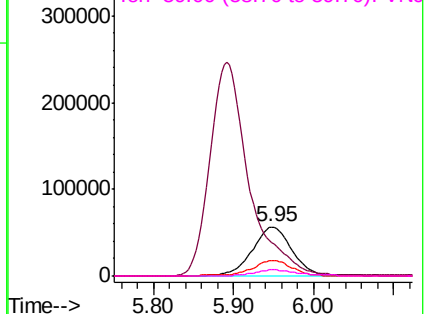
Abundance

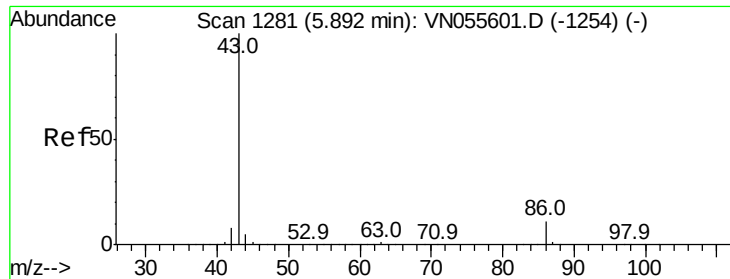
Ion 45.00 (44.70 to 45.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

Ion 59.00 (58.70 to 59.70): VN0





#23

Vinyl Acetate

Concen: 108.120 ug/l

RT: 5.89 min Scan# 1281

Delta R.T. 0.00 min

Lab File: VN055702.D

Acq: 21 May 2019 12:18

Instrument :

MSVOA_N

ClientSampleId :

VN0521MBSD01

Tot Ion: 43 Resp: 831099

Ion Ratio Lower Upper

43 100

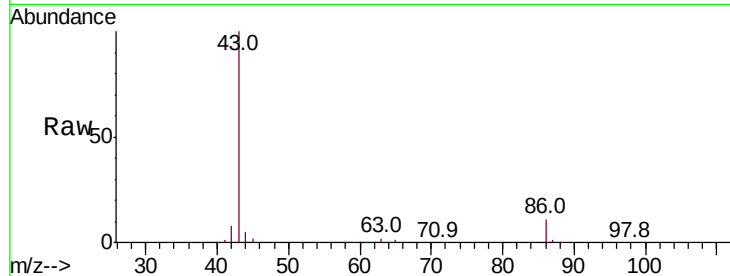
86 11.5 8.7 13.1

Manual Integrations

APPROVED

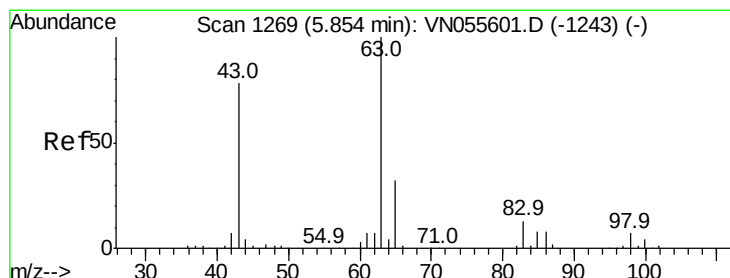
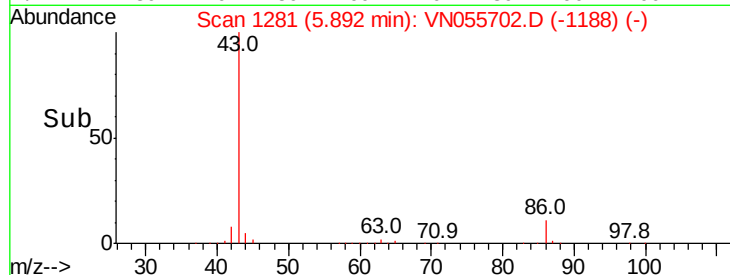
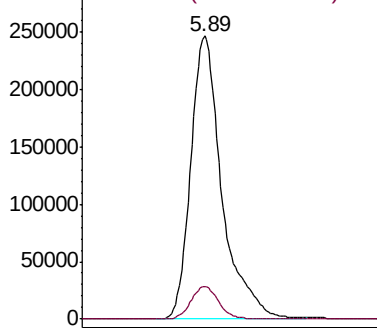
MMDadoda

5/22/2019 4:11:25 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: 22.003 ug/l

RT: 5.85 min Scan# 1267

Delta R.T. -0.01 min

Lab File: VN055702.D

Acq: 21 May 2019 12:18

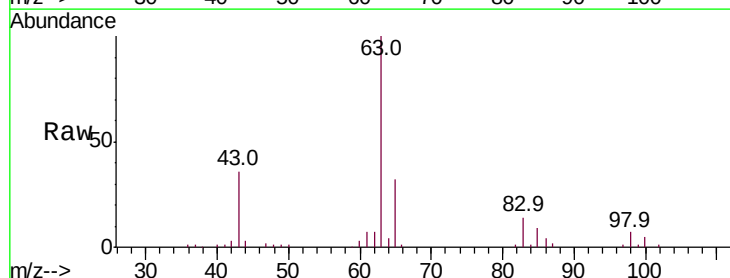
Tgt Ion: 63 Resp: 116873

Ion Ratio Lower Upper

63 100

98 7.1 3.4 10.2

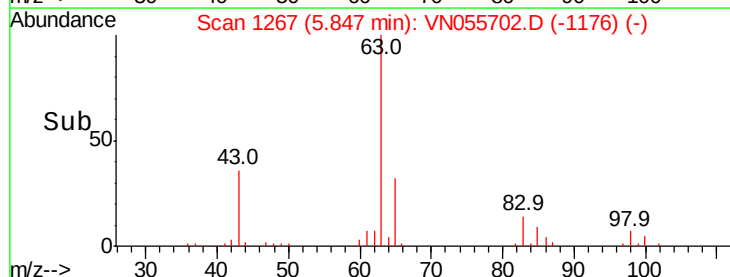
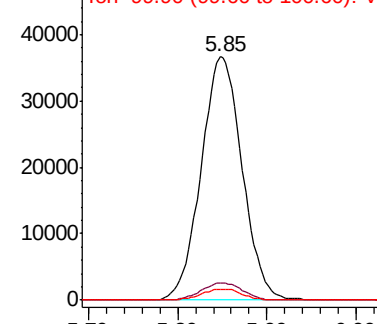
100 4.6 2.2 6.6

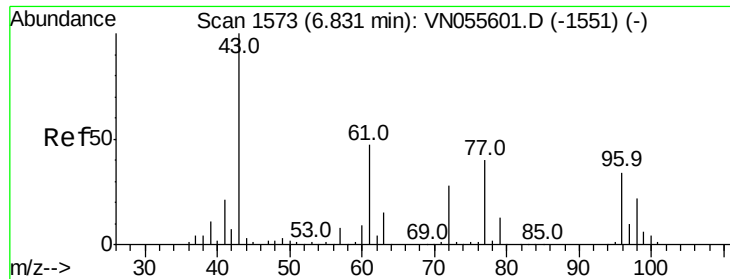


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





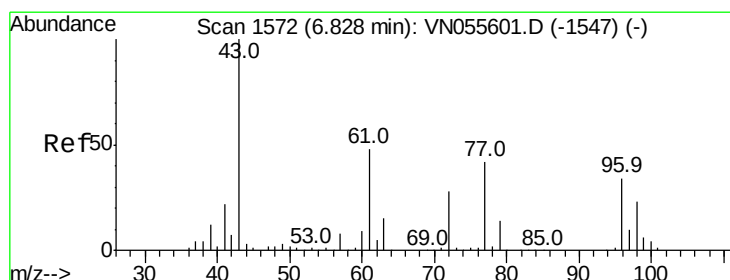
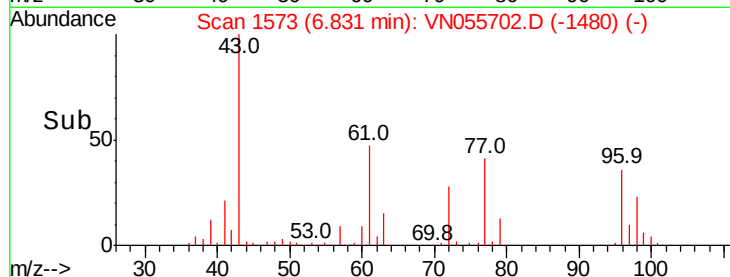
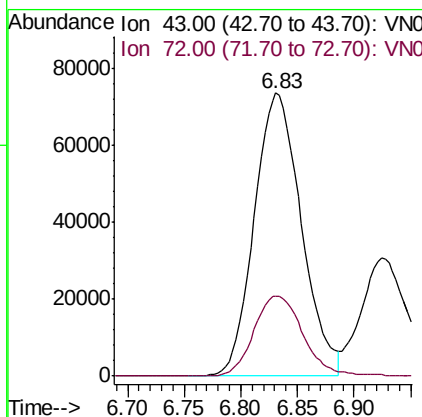
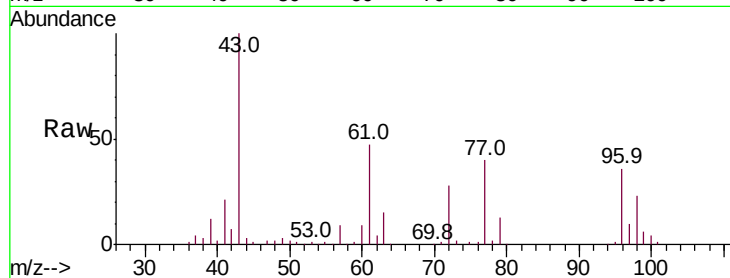
#25
2-Butanone
Concen: 108.993 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. 0.00 min
Lab File: VN055702.D
Acq: 21 May 2019 12:18

Instrument :
MSVOA_N
ClientSampleId :
VN0521MBSD01

Tot Ion: 43 Resp: 211401
Ion Ratio Lower Upper
43 100
72 28.4 22.3 33.5

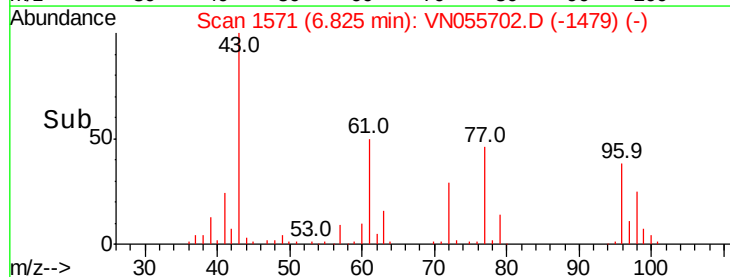
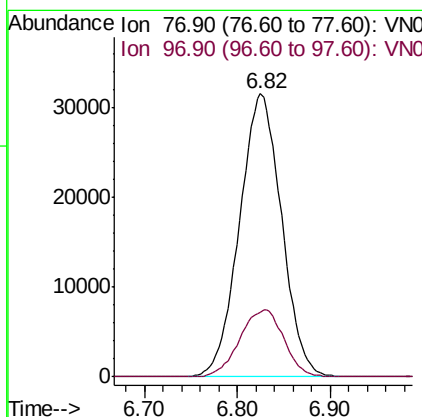
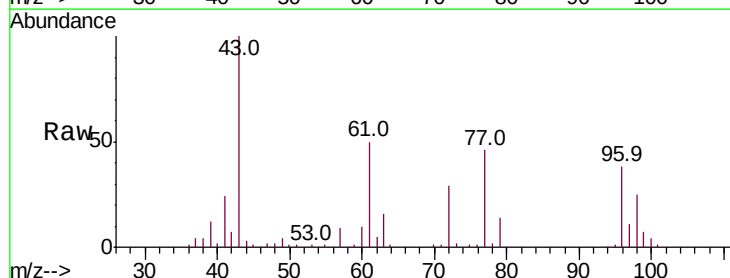
Manual Integrations
APPROVED

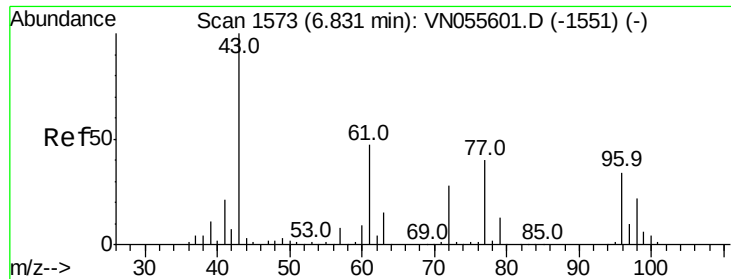
MMDadoda
5/22/2019 4:11:25 PM



#26
2,2-Dichloropropane
Concen: 21.148 ug/l
RT: 6.82 min Scan# 1571
Delta R.T. -0.00 min
Lab File: VN055702.D
Acq: 21 May 2019 12:18

Tgt Ion: 77 Resp: 99696
Ion Ratio Lower Upper
77 100
97 24.8 12.0 36.0





#27

cis-1,2-Dichloroethene

Concen: 22.270 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN055702.D

Acq: 21 May 2019 12:18

Instrument :

MSVOA_N

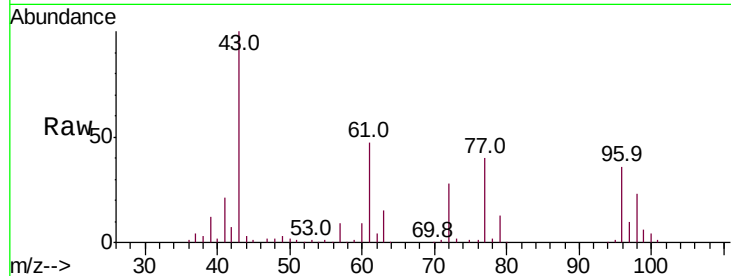
ClientSampleId :

VN0521MBSD01

Tot Ion:	96	Resp:	78230
Ion	Ratio	Lower	Upper
96	100		
61	132.0	0.0	279.0
98	64.9	0.0	131.6

Manual Integrations
APPROVED

MMDadoda
5/22/2019 4:11:25 PM

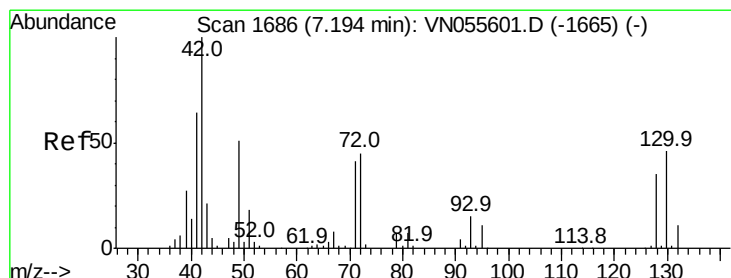
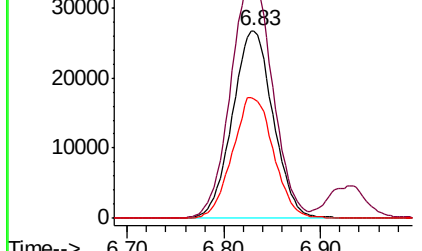
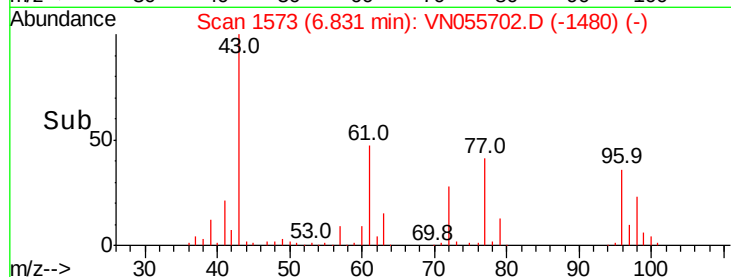


Abundance Ion 95.90 (95.60 to 96.60): VN055601.D (-1551) (-)

Ion 60.90 (60.60 to 61.60): VN055601.D (-1551) (-)

Ion 97.90 (97.60 to 98.60): VN055601.D (-1551) (-)

Time-->



#28

Bromochloromethane

Concen: 19.172 ug/l

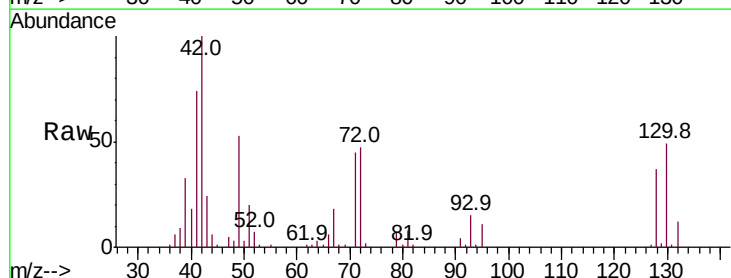
RT: 7.19 min Scan# 1685

Delta R.T. -0.00 min

Lab File: VN055702.D

Acq: 21 May 2019 12:18

Tgt Ion:	49	Resp:	44303
Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.4
130	96.3	71.0	106.6

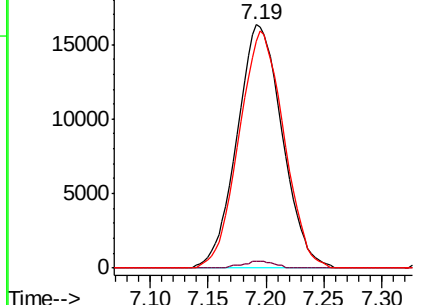
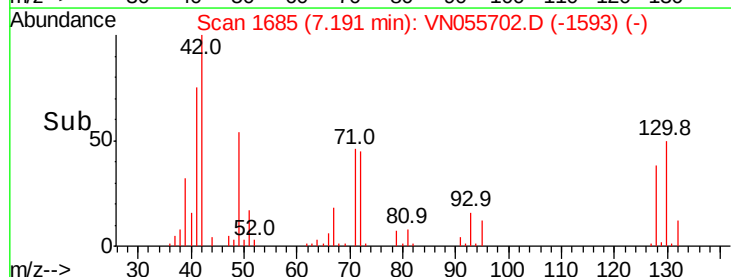


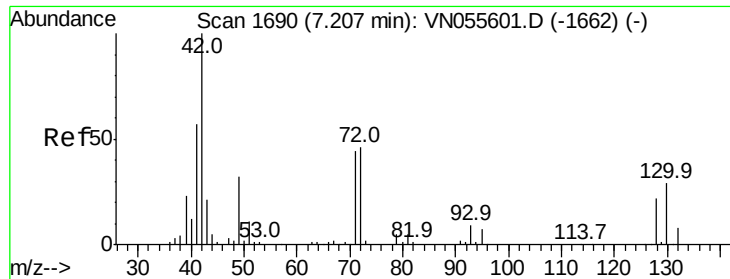
Abundance Ion 48.90 (48.60 to 49.60): VN055601.D (-1665) (-)

Ion 128.80 (128.50 to 129.50): VN055601.D (-1665) (-)

Ion 129.80 (129.50 to 130.50): VN055601.D (-1665) (-)

Time-->





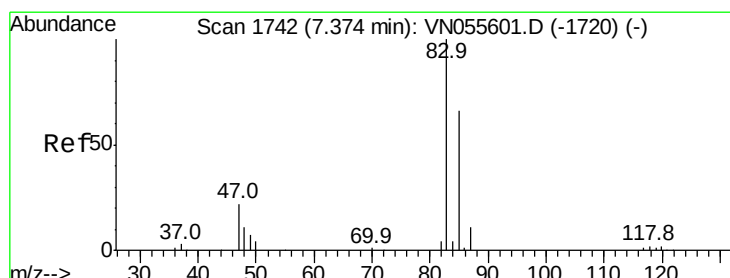
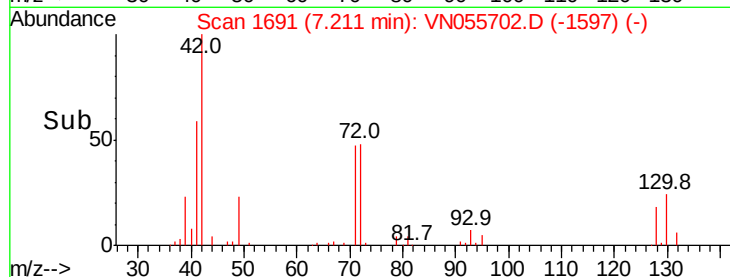
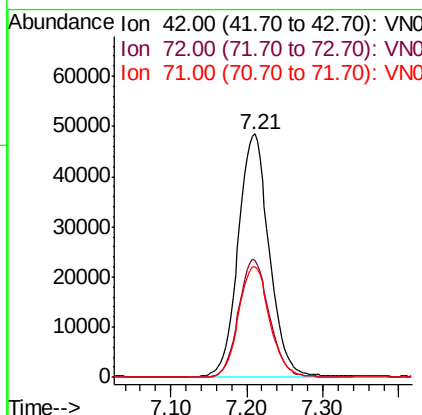
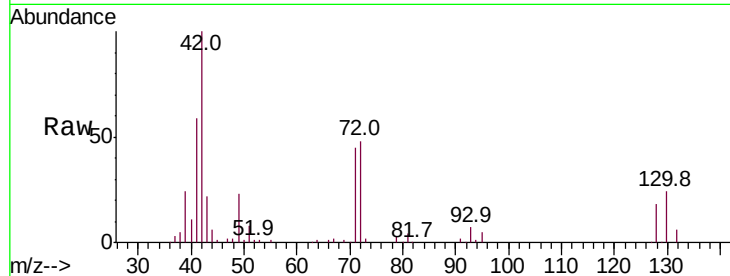
#29
Tetrahydrofuran
Concen: 107.619 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VN055702.D
Acq: 21 May 2019 12:18

Instrument :
MSVOA_N
ClientSampleId :
VN0521MBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	47.7	36.5	54.7
71	45.4	34.9	52.3

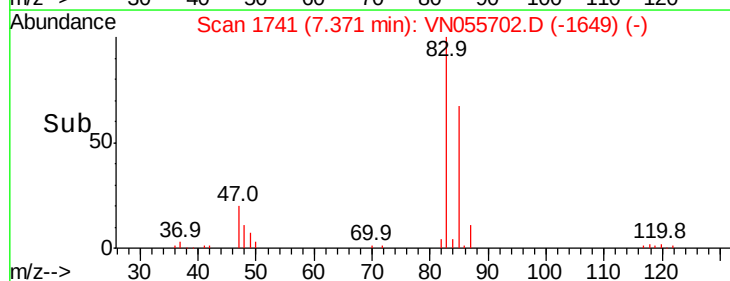
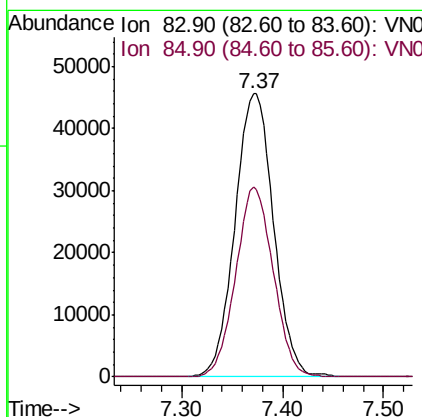
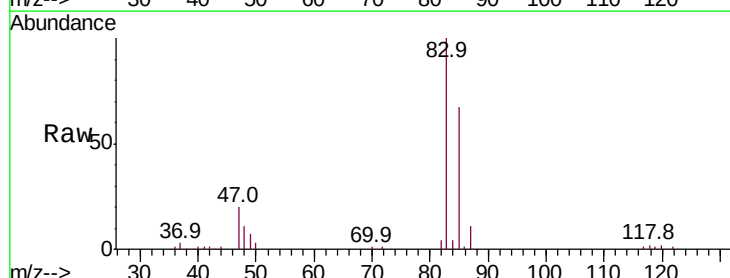
Manual Integrations
APPROVED

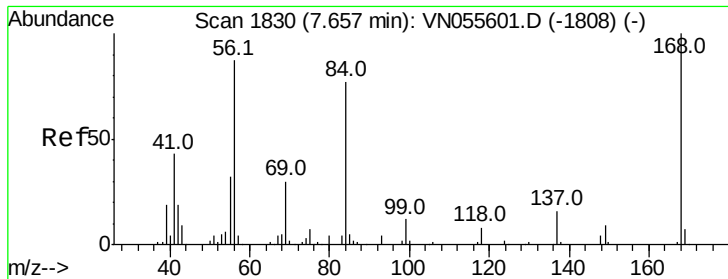
MMDadoda
5/22/2019 4:11:25 PM



#30
Chloroform
Concen: 22.203 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN055702.D
Acq: 21 May 2019 12:18

Tgt Ion	Ratio	Lower	Upper
83	100		
85	67.1	52.6	78.8





#31

Cyclohexane

Concen: 20.486 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. -0.00 min

Lab File: VN055702.D

Acq: 21 May 2019 12:18

Instrument :

MSVOA_N

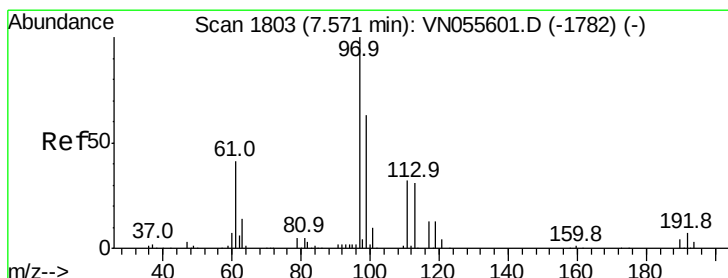
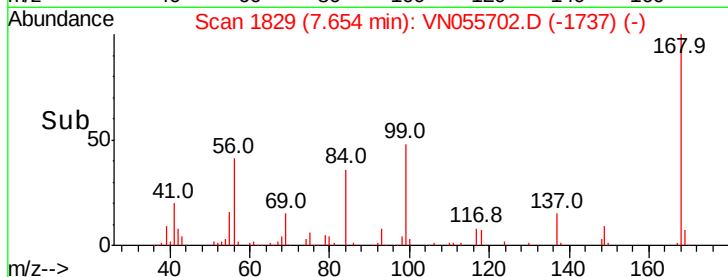
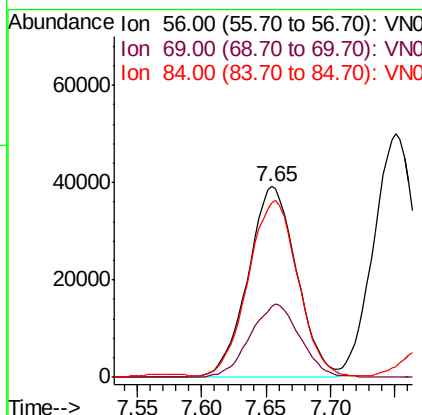
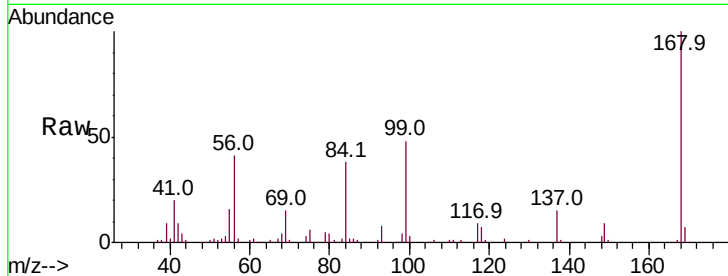
ClientSampleId :

VN0521MBSD01

Tot Ion	56	Resp	103276
Ion	Ratio	Lower	Upper
56	100		
69	36.9	27.2	40.8
84	90.0	71.3	106.9

Manual Integrations
APPROVED

MMDadoda
5/22/2019 4:11:25 PM



#32

1,1,1-Trichloroethane

Concen: 21.915 ug/l

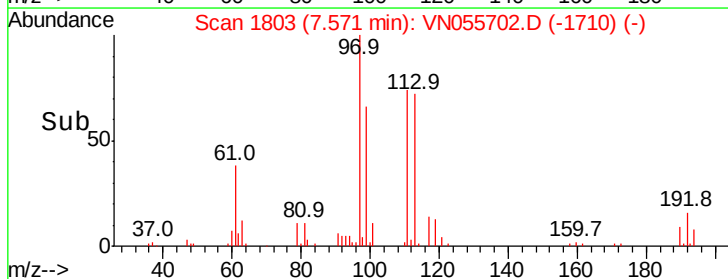
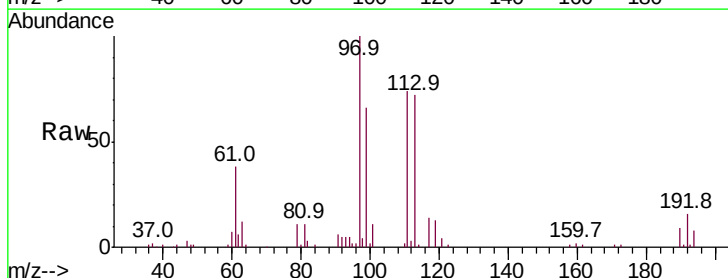
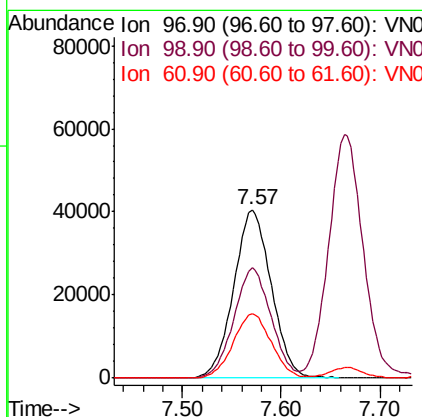
RT: 7.57 min Scan# 1803

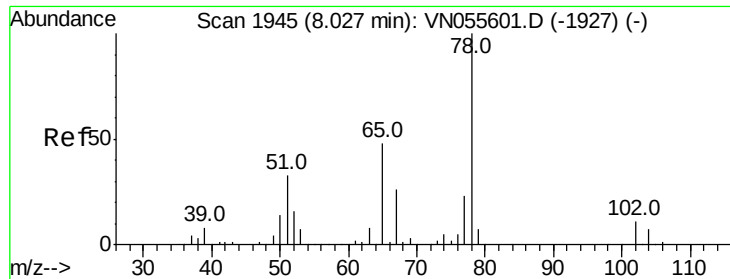
Delta R.T. 0.00 min

Lab File: VN055702.D

Acq: 21 May 2019 12:18

Tgt Ion	97	Resp	107174
Ion	Ratio	Lower	Upper
97	100		
99	64.7	51.4	77.2
61	38.6	32.9	49.3





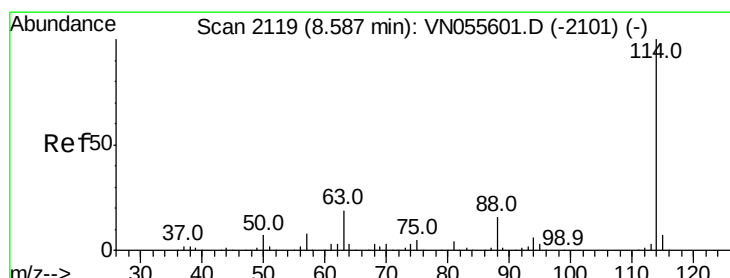
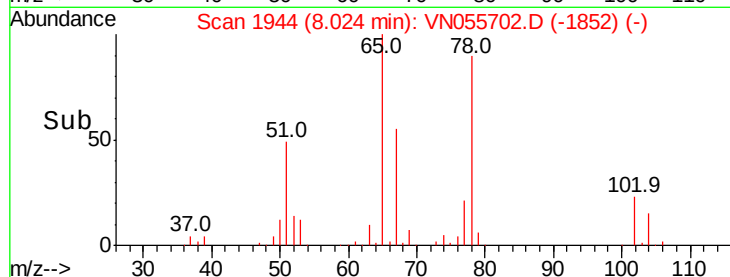
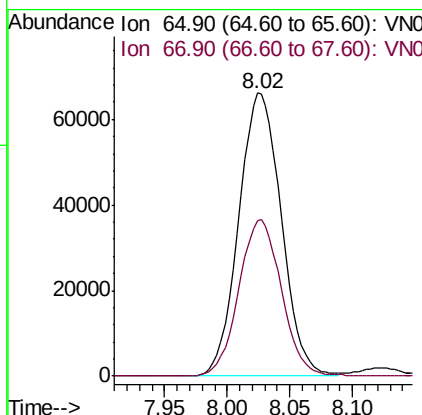
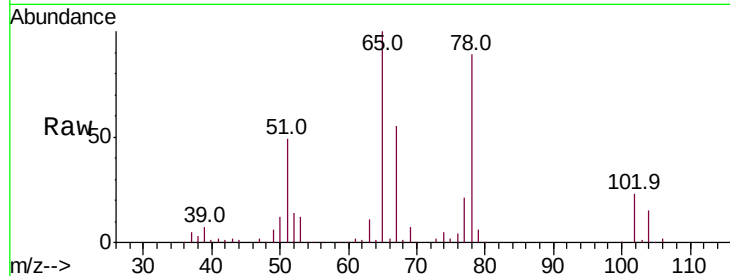
#33
 1,2-Dichloroethane-d4
 Concen: 45.901 ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. -0.00 min
 Lab File: VN055702.D
 Acq: 21 May 2019 12:18

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0521MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	55.5	0.0	108.6	

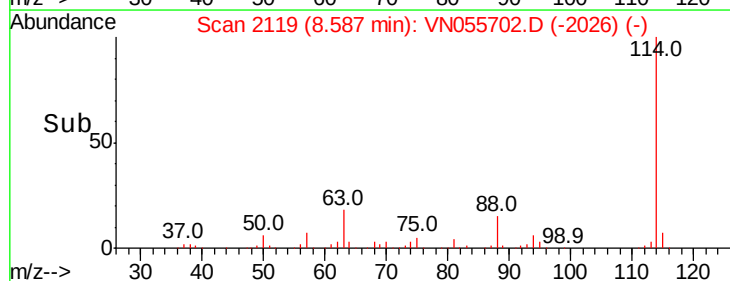
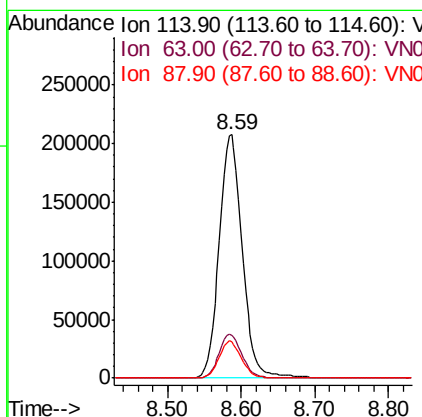
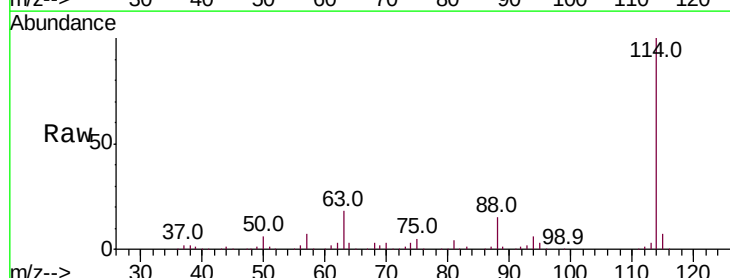
Manual Integrations
 APPROVED

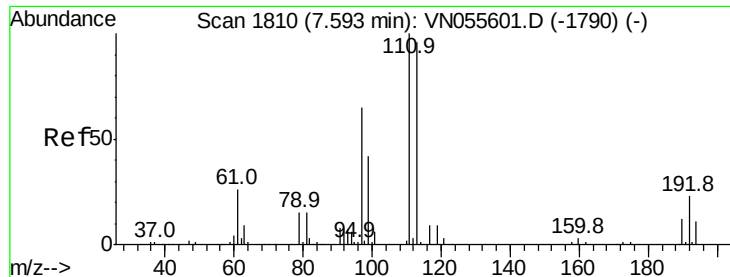
MMDadoda
 5/22/2019 4:11:25 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN055702.D
 Acq: 21 May 2019 12:18

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	17.8	0.0	38.2	
88	15.0	0.0	31.0	





#35

Dibromofluoromethane

Concen: 51.005 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. -0.00 min

Lab File: VN055702.D

Acq: 21 May 2019 12:18

Instrument :

MSVOA_N

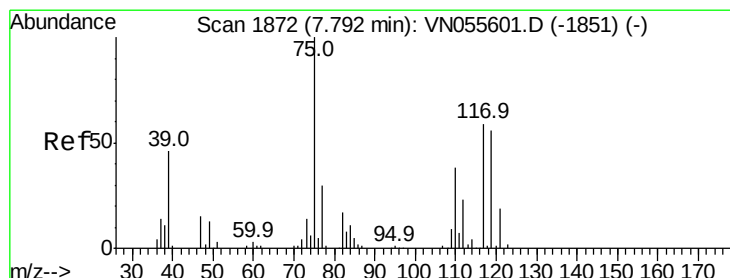
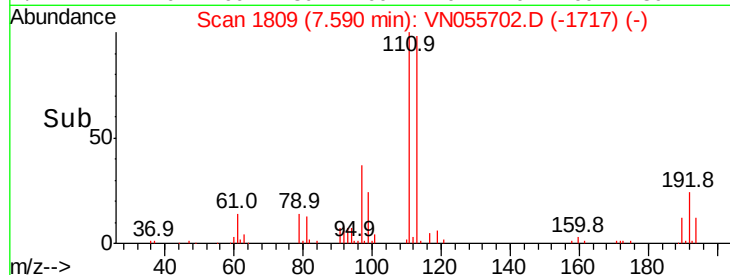
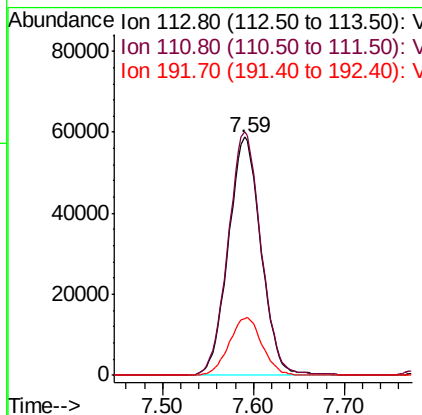
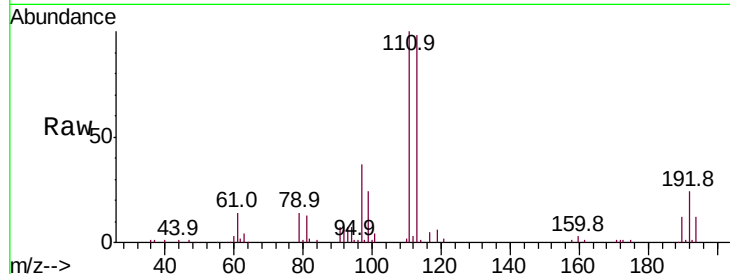
ClientSampleId :

VN0521MBSD01

Tot Ion:	113	Resp:	146625
Ion Ratio	Lower	Upper	
113	100		
111	102.8	82.5	123.7
192	24.3	18.7	28.1

Manual Integrations
APPROVED

MMDadoda
5/22/2019 4:11:25 PM



#36

1,1-Dichloropropene

Concen: 21.461 ug/l

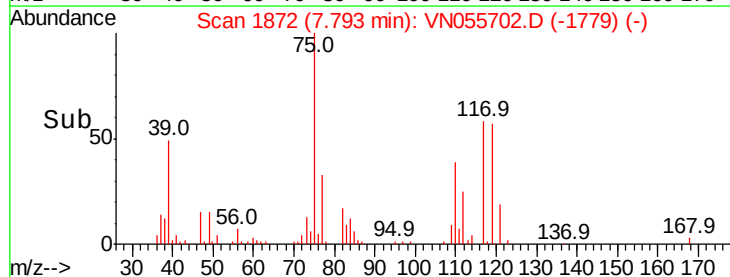
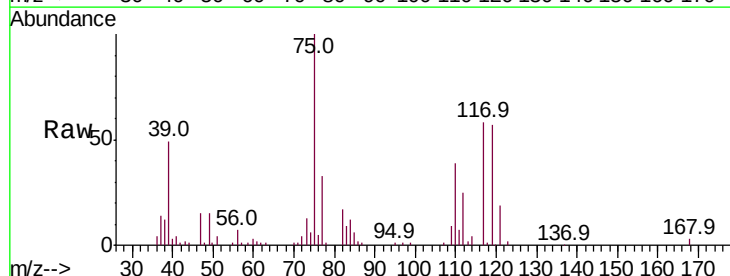
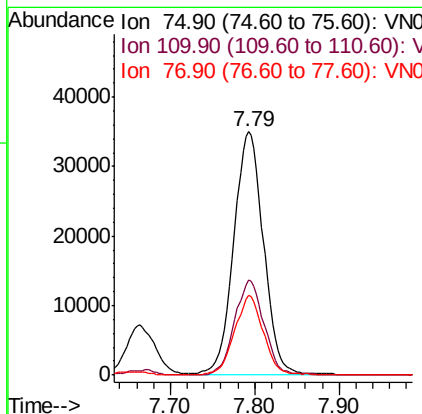
RT: 7.79 min Scan# 1872

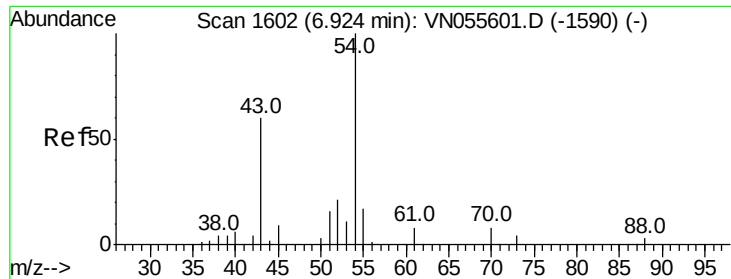
Delta R.T. 0.00 min

Lab File: VN055702.D

Acq: 21 May 2019 12:18

Tgt Ion:	75	Resp:	86586
Ion Ratio	Lower	Upper	
75	100		
110	38.3	18.6	55.6
77	31.3	24.9	37.3





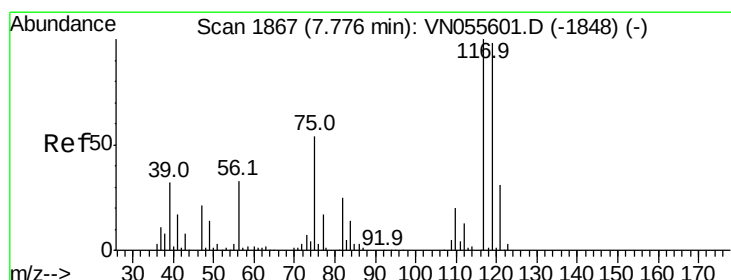
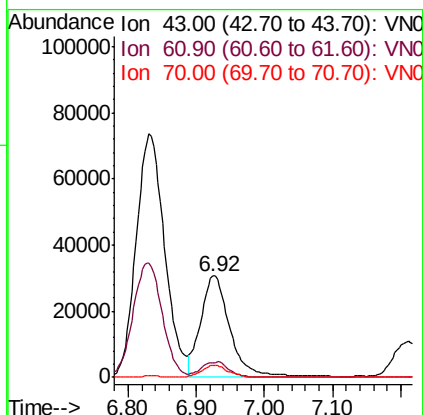
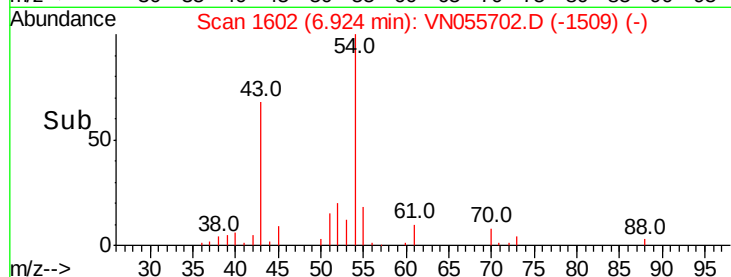
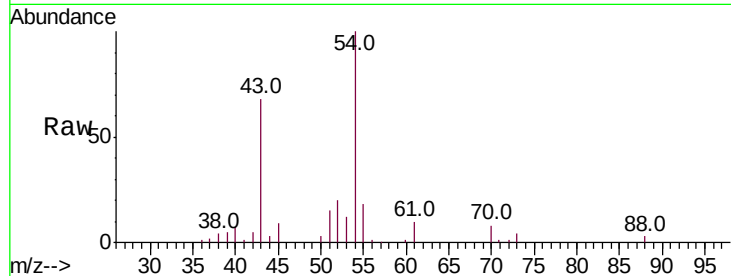
#37
Ethyl Acetate
Concen: 24.551 ug/l
RT: 6.92 min Scan# 1602
Delta R.T. 0.00 min
Lab File: VN055702.D
Acq: 21 May 2019 12:18

Instrument :
MSVOA_N
ClientSampleId :
VN0521MBSD01

Tot Ion	43	Ratio	100	Resp	89384
Ion	43	100		Lower	Upper
	61	14.9		11.4	17.0
	70	11.2		9.2	13.8

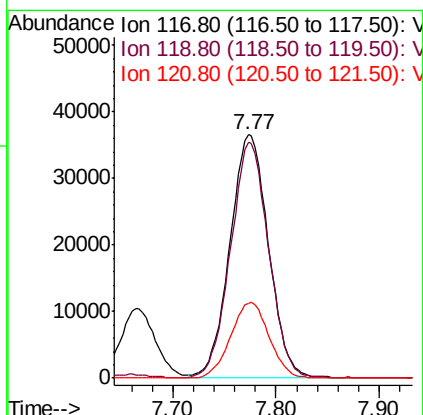
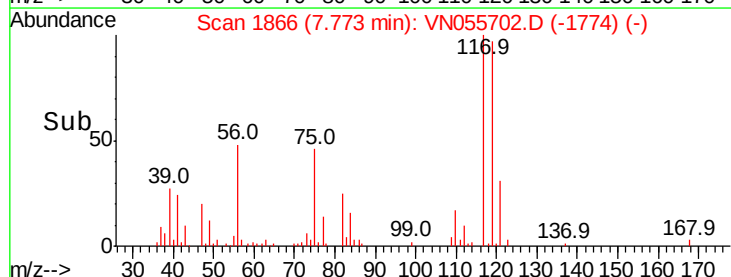
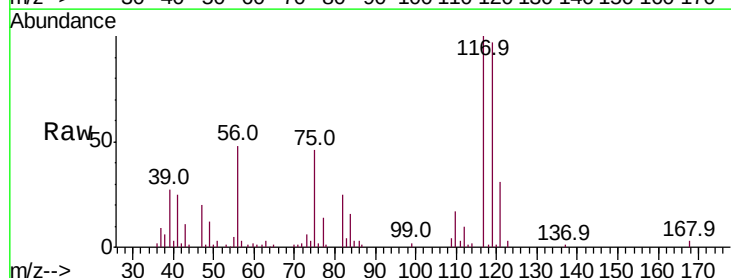
Manual Integrations
APPROVED

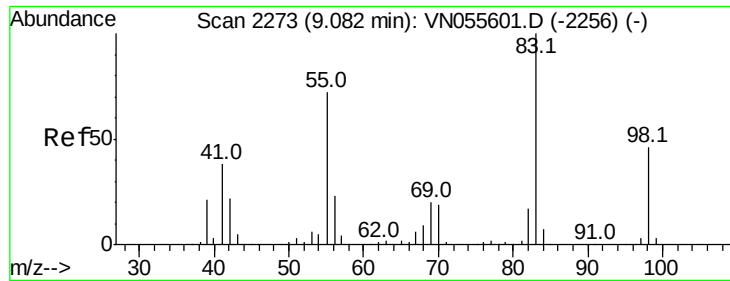
MMDadoda
5/22/2019 4:11:25 PM



#38
Carbon Tetrachloride
Concen: 22.093 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN055702.D
Acq: 21 May 2019 12:18

Tgt Ion	117	Ratio	100	Resp	95252
Ion	117	100		Lower	Upper
	119	96.8		77.8	116.8
	121	30.7		24.6	37.0





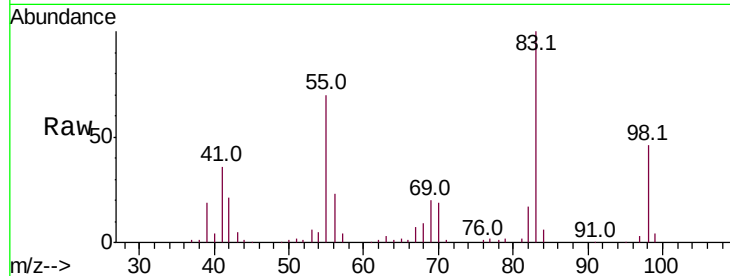
#39
Methylvlcyclohexane
Concen: 21.720 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN055702.D
Acq: 21 May 2019 12:18

Instrument :
MSVOA_N
ClientSampleId :
VN0521MBSD01

Tot Ion	Ratio	Lower	Upper
83	100		
55	69.6	57.8	86.6
98	46.2	36.7	55.1

Manual Integrations
APPROVED

MMDadoda
5/22/2019 4:11:25 PM

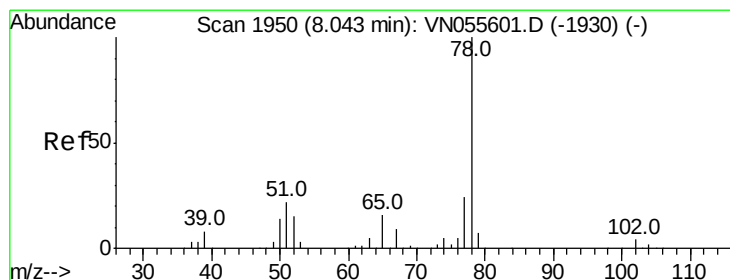
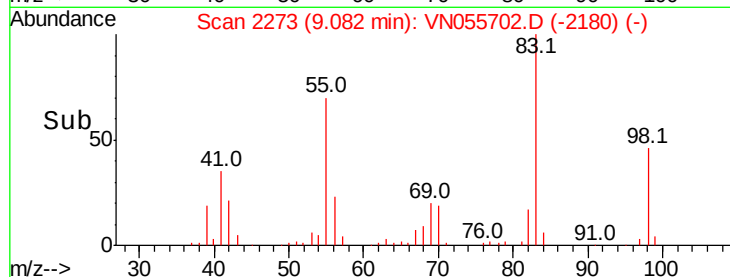
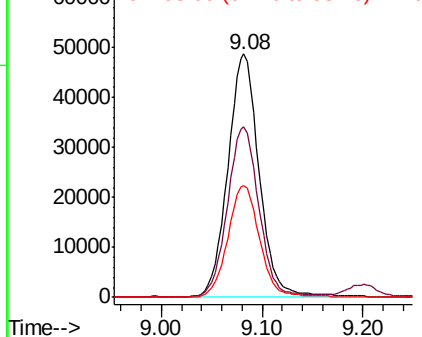


Abundance

Ion 83.00 (82.70 to 83.70): VN0

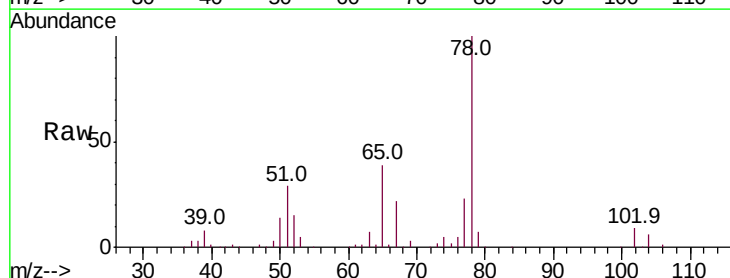
Ion 55.00 (54.70 to 55.70): VN0

Ion 98.00 (97.70 to 98.70): VN0



#40
Benzene
Concen: 23.008 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN055702.D
Acq: 21 May 2019 12:18

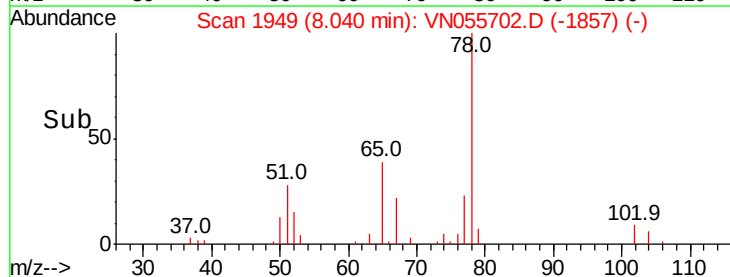
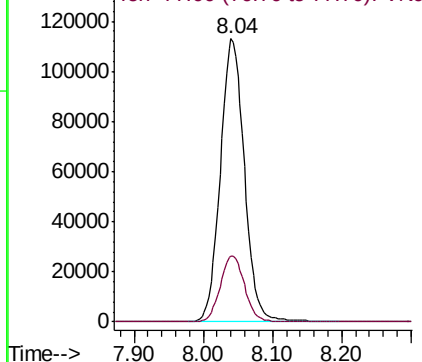
Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.4	18.9	28.3

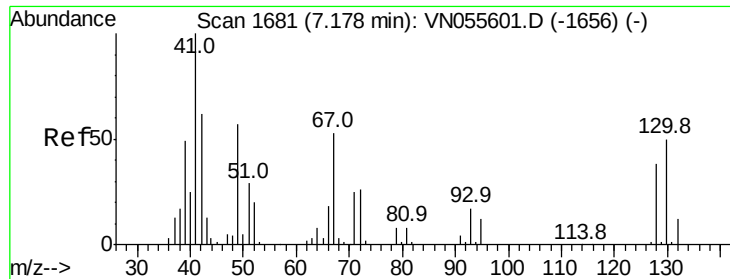


Abundance

Ion 78.00 (77.70 to 78.70): VN0

Ion 77.00 (76.70 to 77.70): VN0





#41

Methacrylonitrile

Concen: 25.225 ug/l m

RT: 7.17 min Scan# 1679

Delta R.T. -0.01 min

Lab File: VN055702.D

Acq: 21 May 2019 12:18

Instrument :

MSVOA_N

ClientSampleId :

VN0521MBSD01

Tot Ion: 41 Resp: 39265

Ion Ratio Lower Upper

41 100

39 0.0 0.0 0.0

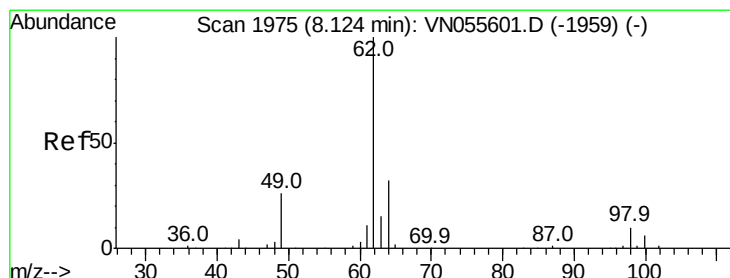
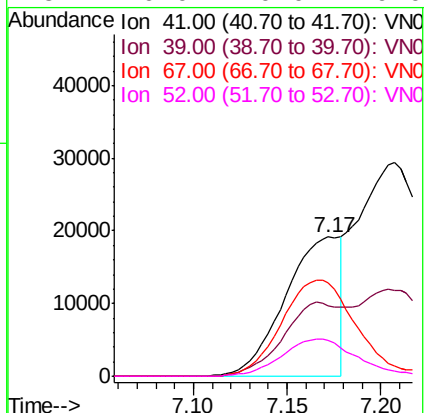
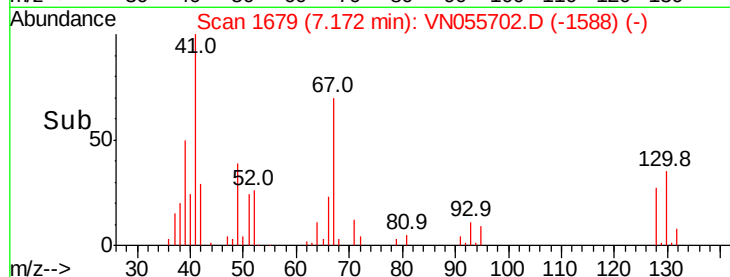
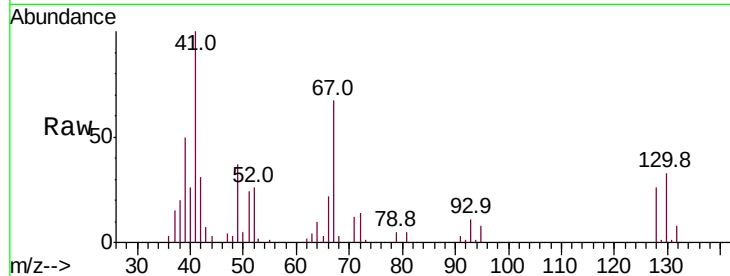
67 0.0 0.0 0.0

52 0.0 0.0 0.0

Manual Integrations
APPROVED

MMDadoda

5/22/2019 4:11:25 PM



#42

1,2-Dichloroethane

Concen: 23.340 ug/l

RT: 8.12 min Scan# 1975

Delta R.T. 0.00 min

Lab File: VN055702.D

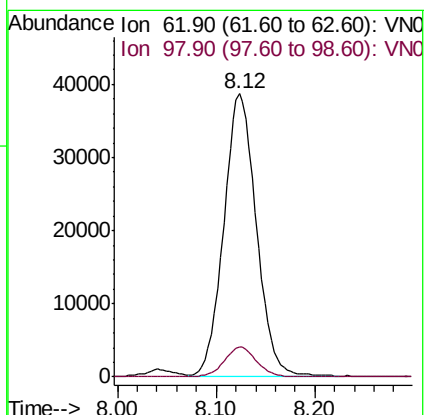
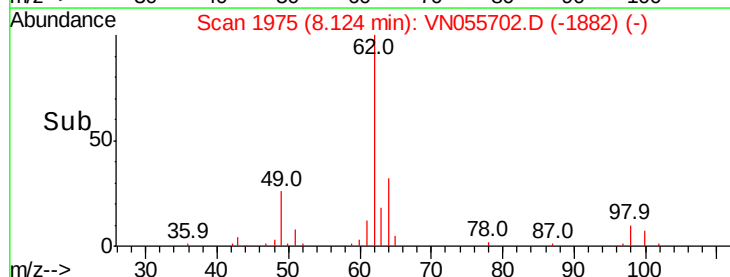
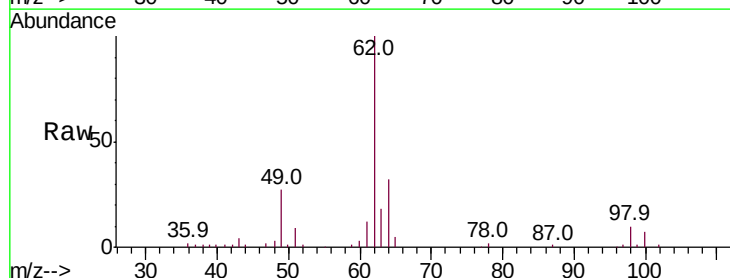
Acq: 21 May 2019 12:18

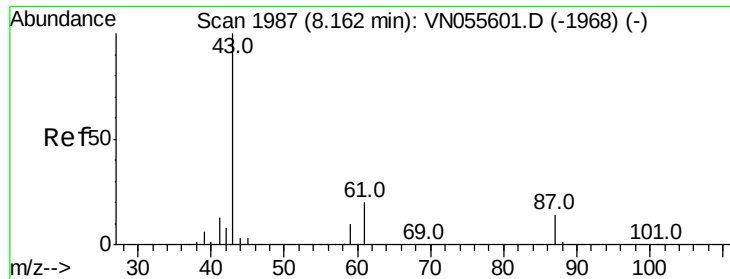
Tgt Ion: 62 Resp: 89690

Ion Ratio Lower Upper

62 100

98 10.1 0.0 20.2





#43

Isopropyl Acetate

Concen: 22.376 ug/l

RT: 8.16 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN055702.D

Acq: 21 May 2019 12:18

Instrument :

MSVOA_N

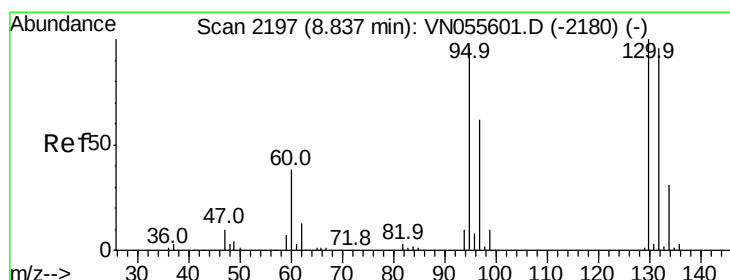
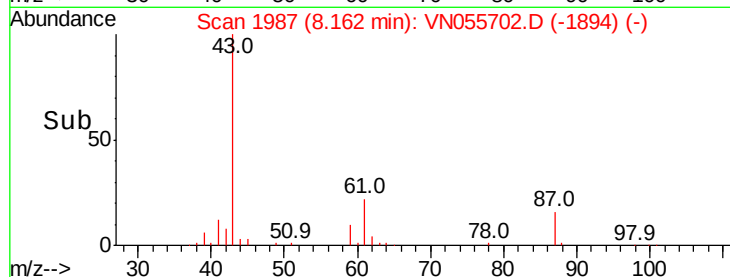
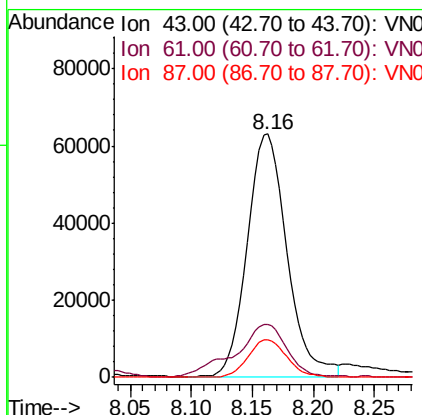
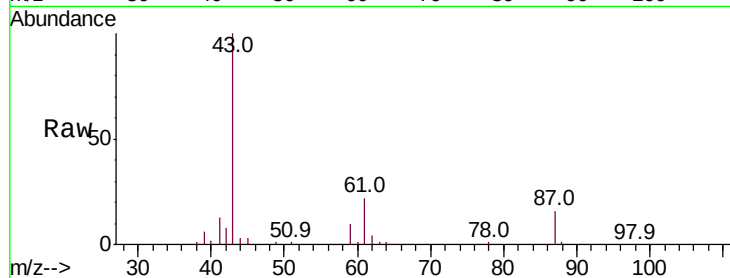
ClientSampleId :

VN0521MBSD01

Tot Ion:	43	Resp:	141710
Ion	Ratio	Lower	Upper
43	100		
61	28.8	22.1	33.1
87	15.3	11.8	17.6

Manual Integrations
APPROVED

MMDadoda
5/22/2019 4:11:25 PM



#44

Trichloroethene

Concen: 23.374 ug/l

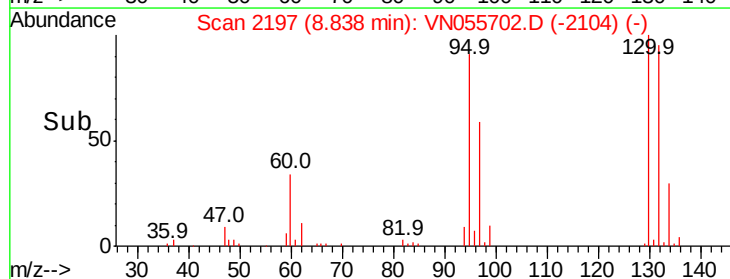
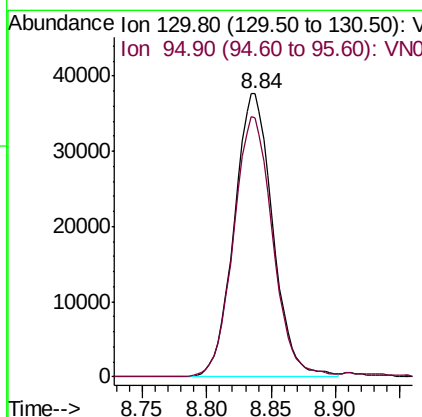
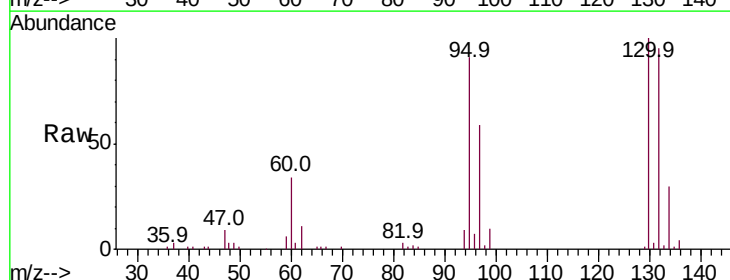
RT: 8.84 min Scan# 2197

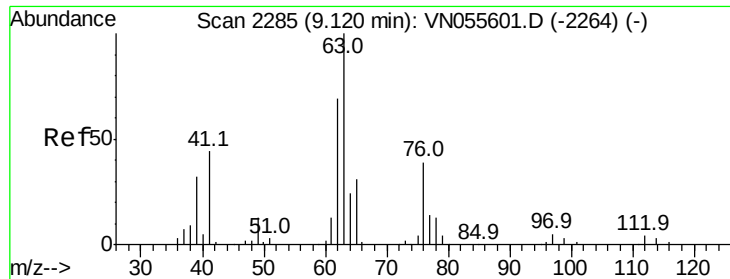
Delta R.T. 0.00 min

Lab File: VN055702.D

Acq: 21 May 2019 12:18

Tgt Ion:	130	Resp:	78271
Ion	Ratio	Lower	Upper
130	100		
95	91.4	0.0	191.0





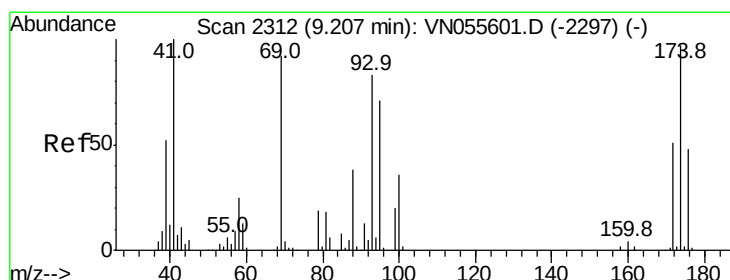
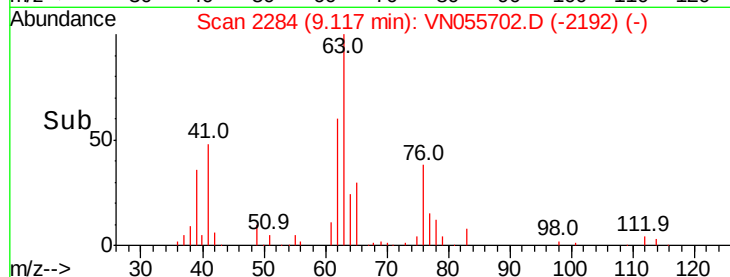
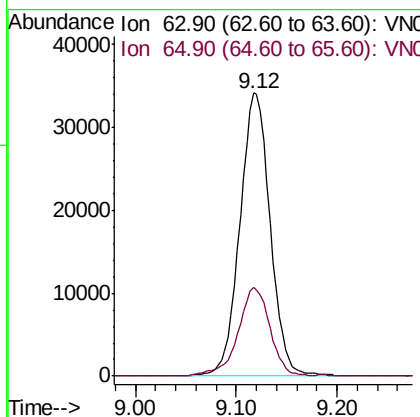
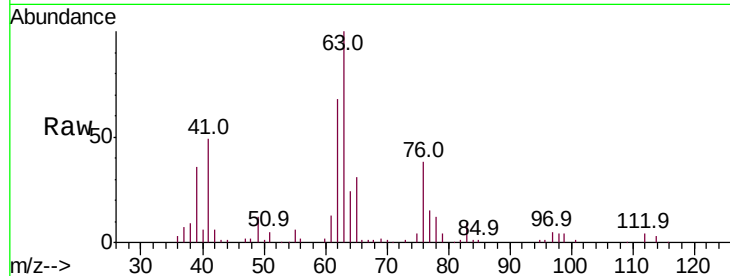
#45
 1,2-Dichloropropane
 Concen: 22.726 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. -0.00 min
 Lab File: VN055702.D
 Acq: 21 May 2019 12:18

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0521MBSD01

Tot Ion: 63 Resp: 71048
 Ion Ratio Lower Upper
 63 100
 65 31.3 25.2 37.8

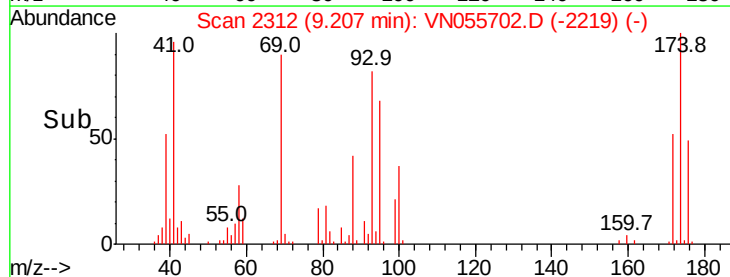
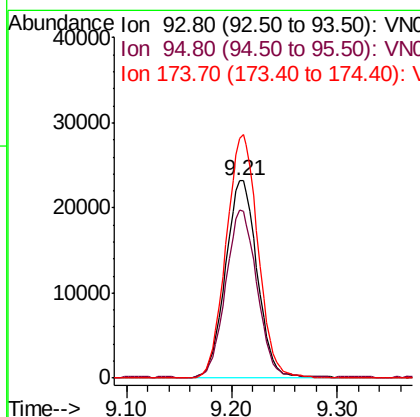
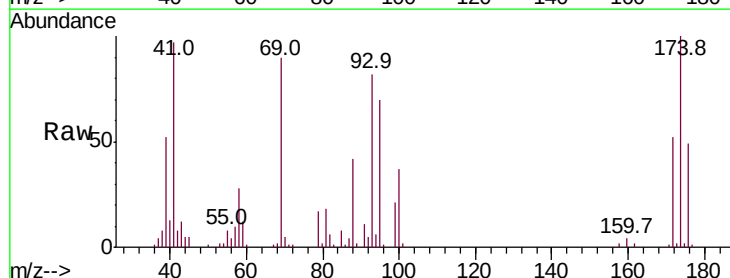
Manual Integrations
 APPROVED

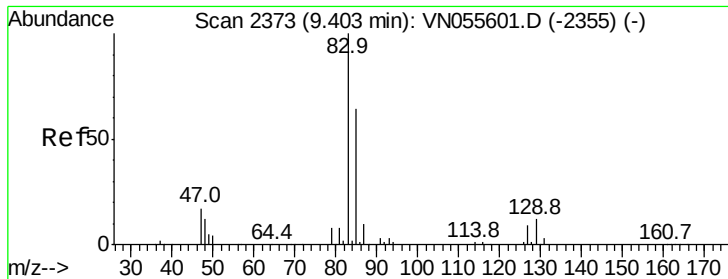
MMDadoda
 5/22/2019 4:11:25 PM



#46
 Dibromomethane
 Concen: 23.668 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. 0.00 min
 Lab File: VN055702.D
 Acq: 21 May 2019 12:18

Tgt Ion: 93 Resp: 48429
 Ion Ratio Lower Upper
 93 100
 95 84.2 67.9 101.9
 174 123.1 93.8 140.6





#47

Bromodichloromethane

Concen: 22.632 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN055702.D

Acq: 21 May 2019 12:18

Instrument :

MSVOA_N

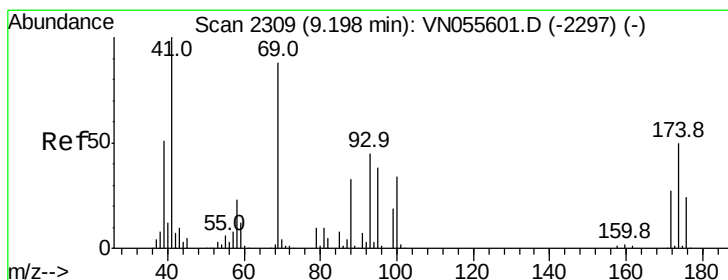
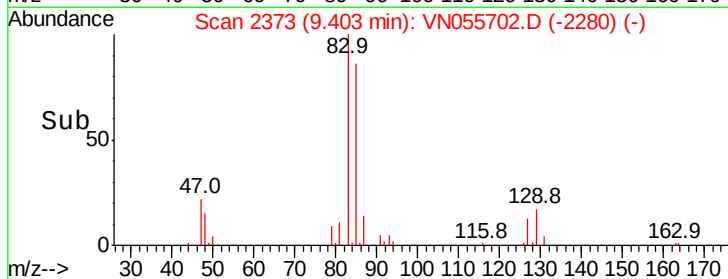
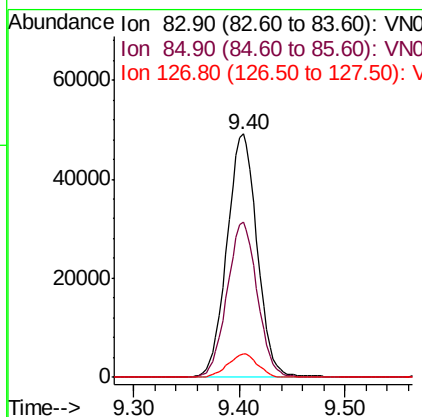
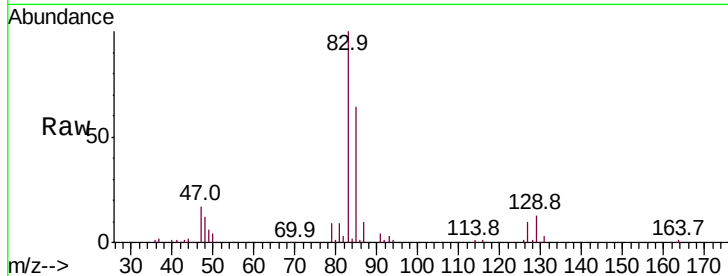
ClientSampleId :

VN0521MBSD01

Tot Ion:	83	Resp:	97054
Ion Ratio	Lower	Upper	
83	100		
85	64.0	51.4	77.0
127	9.5	7.1	10.7

Manual Integrations
APPROVED

MMDadoda
5/22/2019 4:11:25 PM



#48

Methyl methacrylate

Concen: 23.077 ug/l

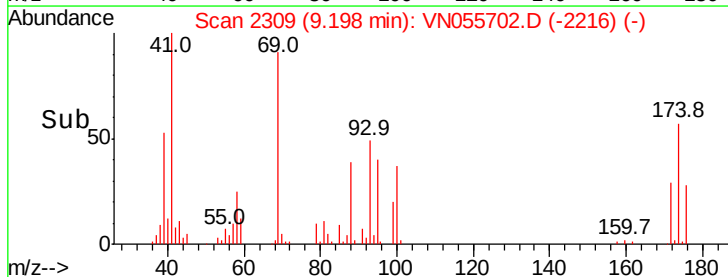
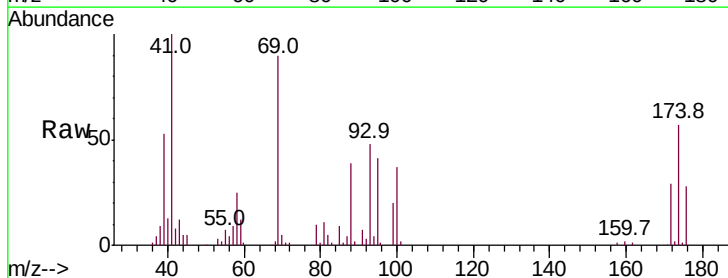
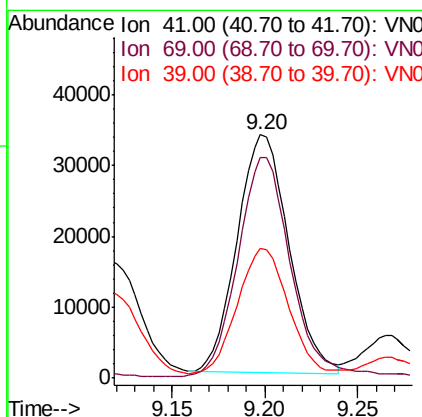
RT: 9.20 min Scan# 2309

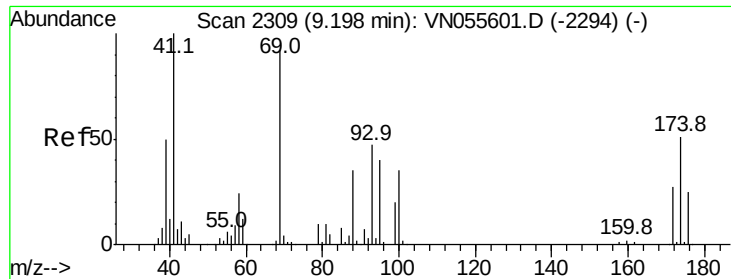
Delta R.T. 0.00 min

Lab File: VN055702.D

Acq: 21 May 2019 12:18

Tgt Ion:	41	Resp:	65325
Ion Ratio	Lower	Upper	
41	100		
69	95.4	74.2	111.2
39	55.1	43.8	65.8





#49

1,4-Dioxane

Concen: 541.477 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

Lab File: VN055702.D

Acq: 21 May 2019 12:18

Instrument :

MSVOA_N

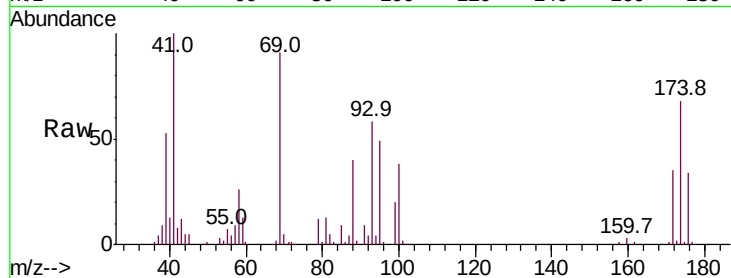
ClientSampled :

VN0521MBSD01

Tot Ion:	88	Resp:	30457
Ion	Ratio	Lower	Upper
88	100		
43	26.0	22.4	33.6
58	64.3	53.4	80.2

Manual Integrations
APPROVED

MMDadoda
5/22/2019 4:11:25 PM

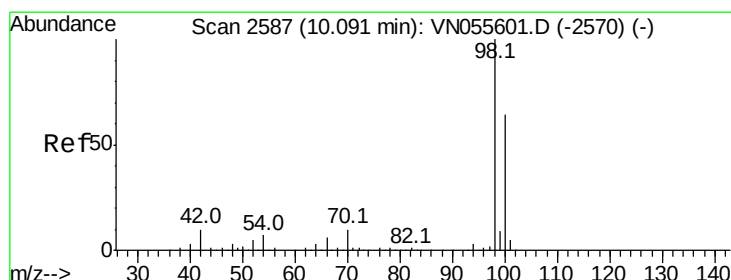
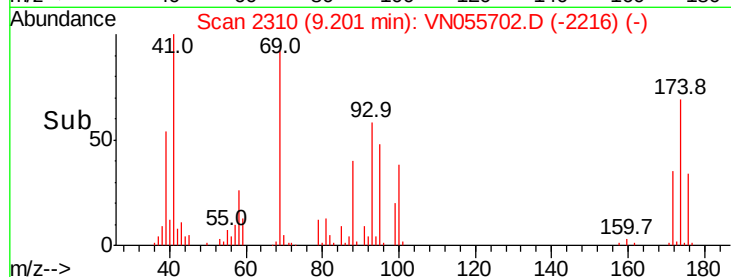
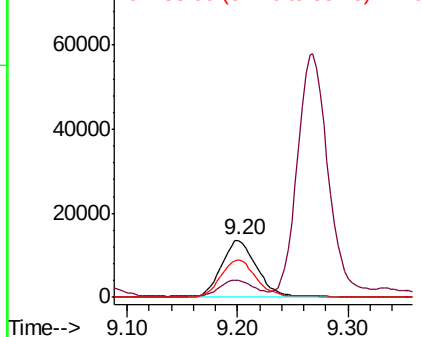


Abundance

Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 49.806 ug/l

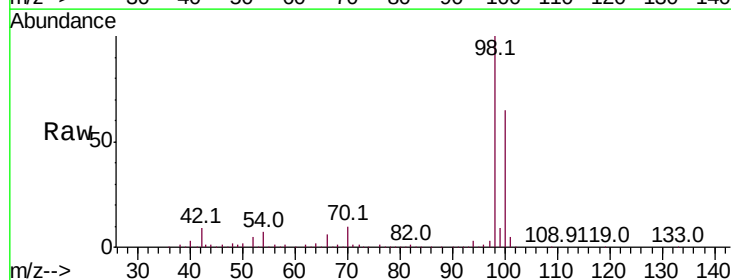
RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055702.D

Acq: 21 May 2019 12:18

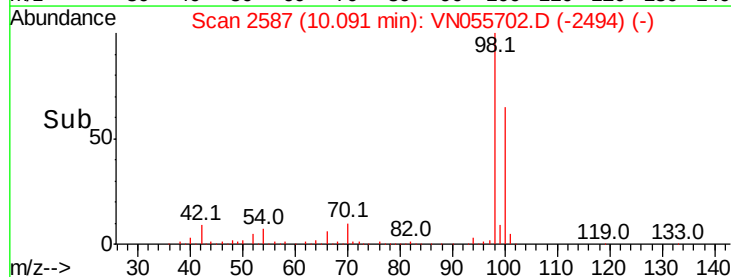
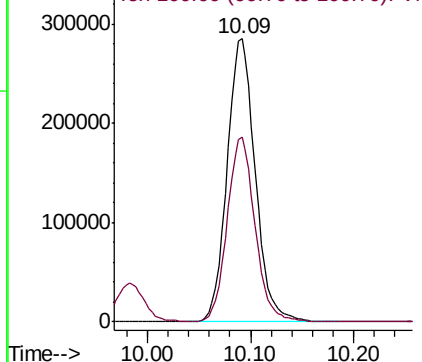
Tgt Ion:	98	Resp:	541377
Ion	Ratio	Lower	Upper
98	100		
100	64.6	51.9	77.9

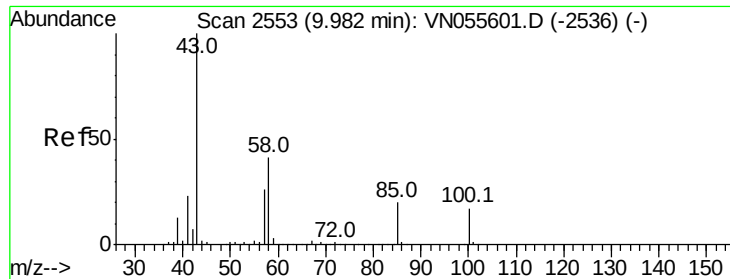


Abundance

Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 112.601 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN055702.D

Acq: 21 May 2019 12:18

Instrument :

MSVOA_N

ClientSampleId :

VN0521MBSD01

Tot Ion: 43 Resp: 418300

Ion Ratio Lower Upper

43 100

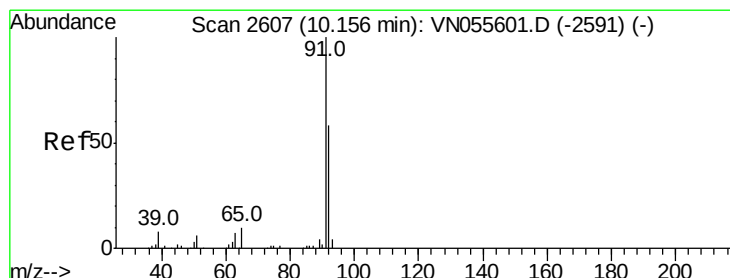
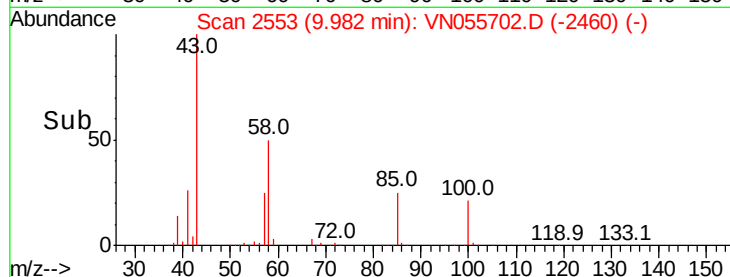
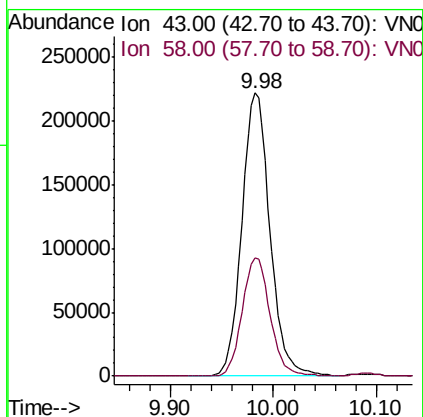
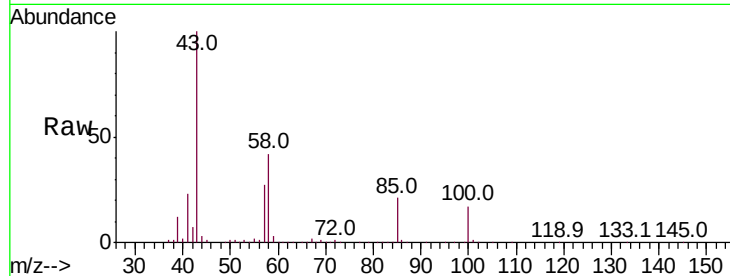
58 41.7 32.7 49.1

Manual Integrations

APPROVED

MMDadoda

5/22/2019 4:11:25 PM



#52

Toluene

Concen: 23.335 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN055702.D

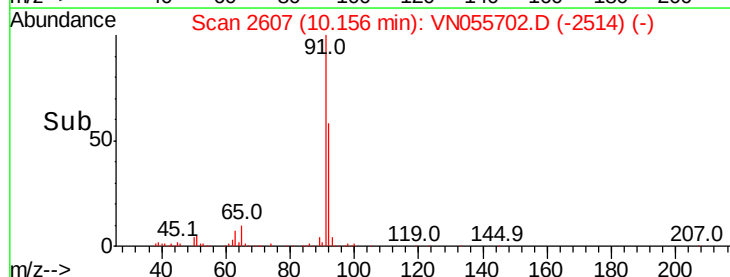
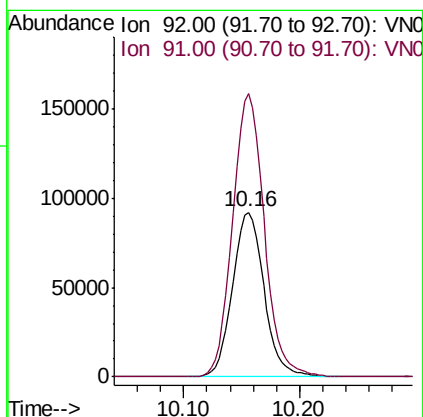
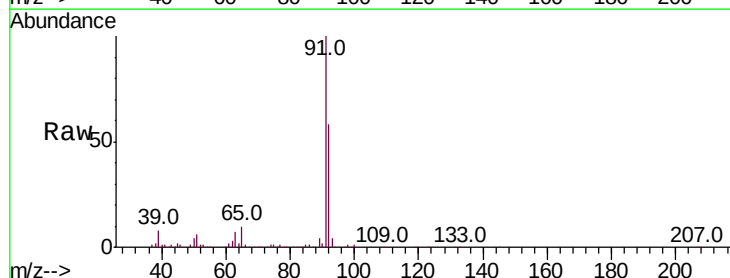
Acq: 21 May 2019 12:18

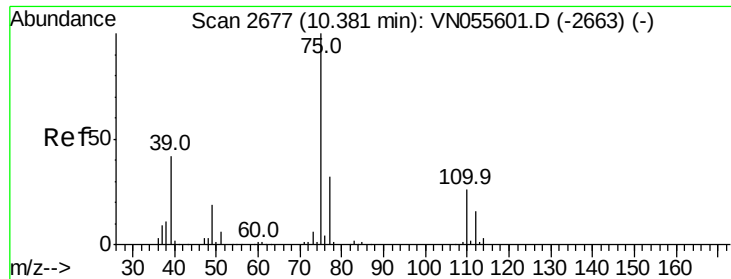
Tgt Ion: 92 Resp: 173689

Ion Ratio Lower Upper

92 100

91 172.2 138.9 208.3





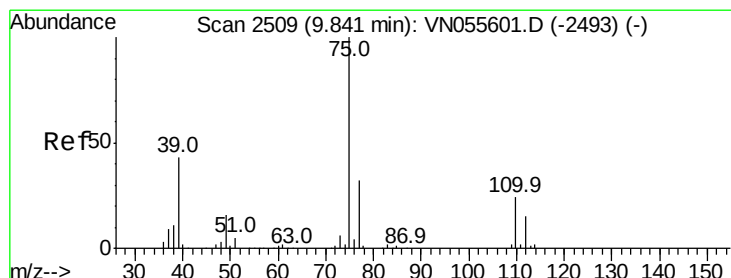
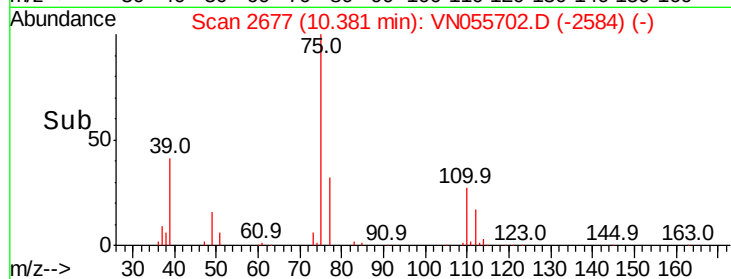
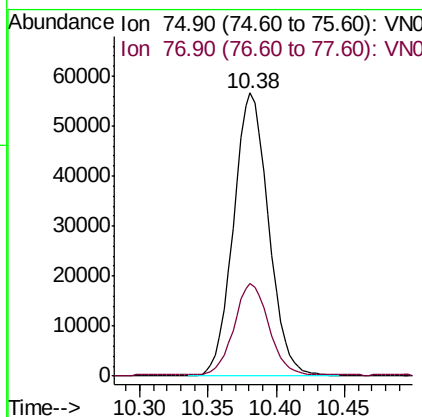
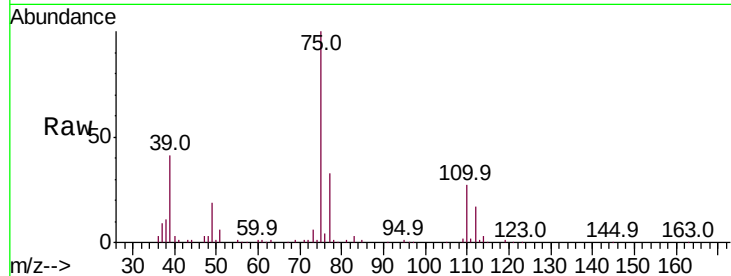
#53
t-1,3-Dichloropropene
Concen: 21.924 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VN055702.D
Acq: 21 May 2019 12:18

Instrument :
MSVOA_N
ClientSampleId :
VN0521MBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.1	25.4	38.2

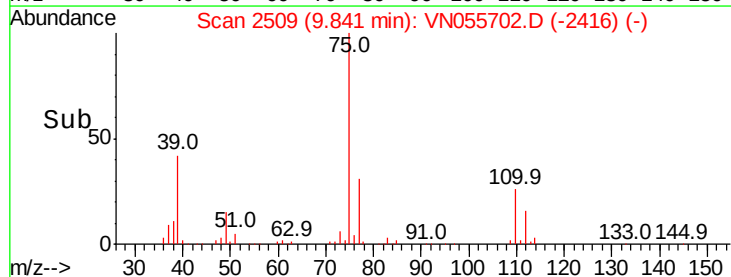
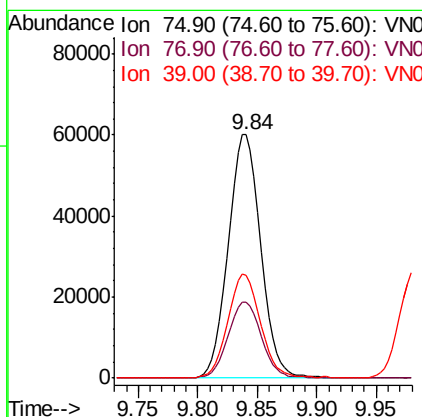
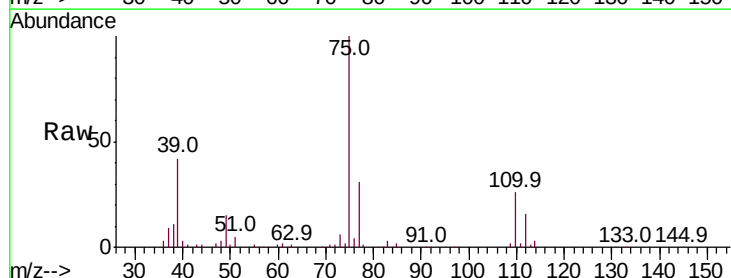
Manual Integrations
APPROVED

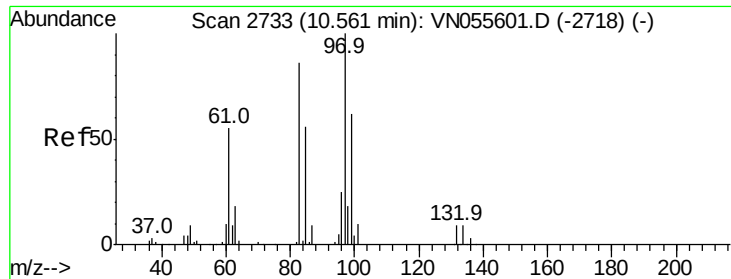
MMDadoda
5/22/2019 4:11:25 PM



#54
cis-1,3-Dichloropropene
Concen: 22.495 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VN055702.D
Acq: 21 May 2019 12:18

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.7	38.5
39	42.2	34.7	52.1





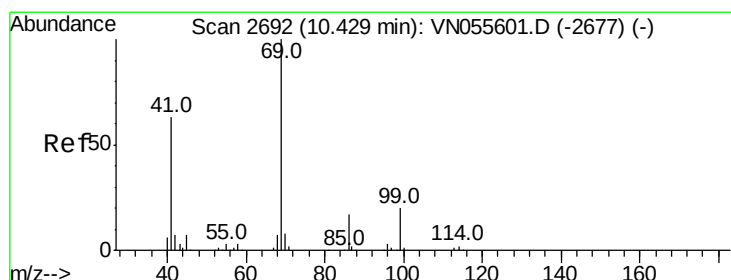
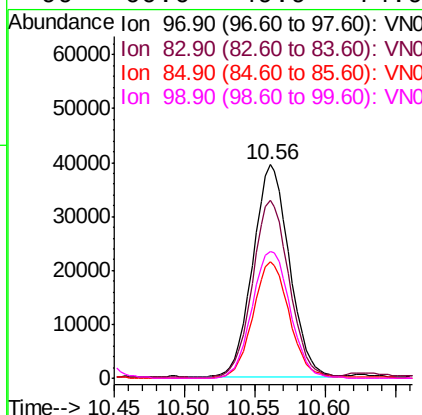
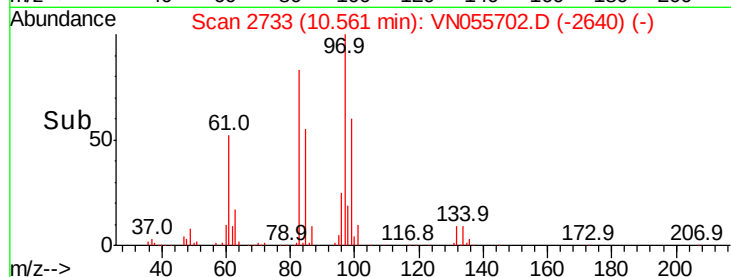
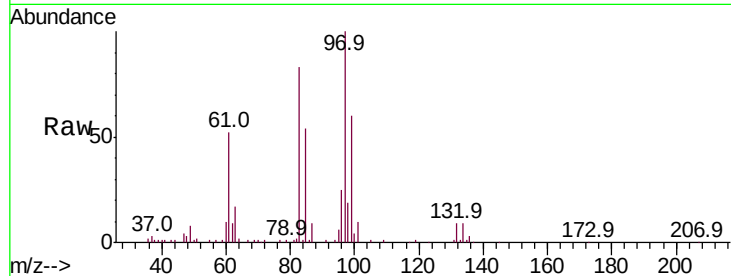
#55
 1,1,2-Trichloroethane
 Concen: 23.339 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN055702.D
 Acq: 21 May 2019 12:18

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0521MBSD01

Tot Ion	97	Resp	71518
Ion	Ratio	Lower	Upper
97	100		
83	83.0	68.4	102.6
85	54.7	44.8	67.2
99	60.0	49.9	74.9

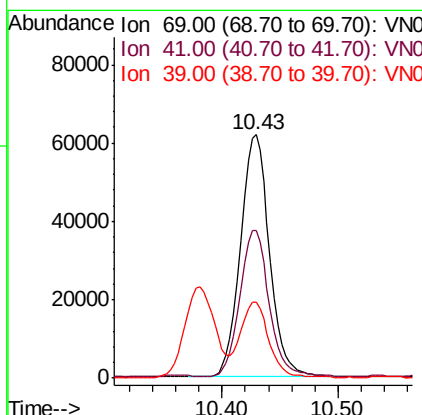
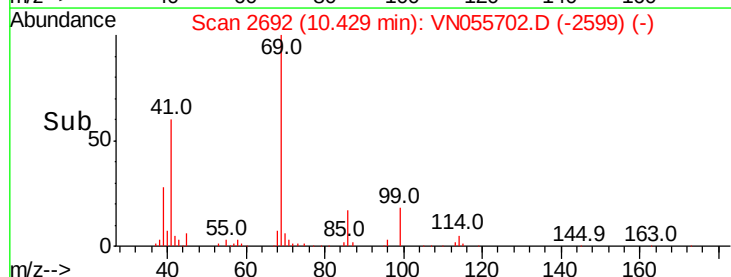
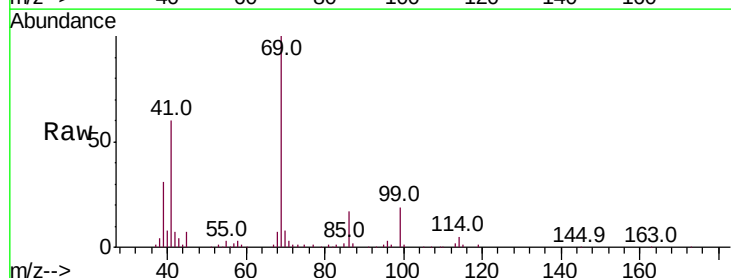
Manual Integrations
 APPROVED

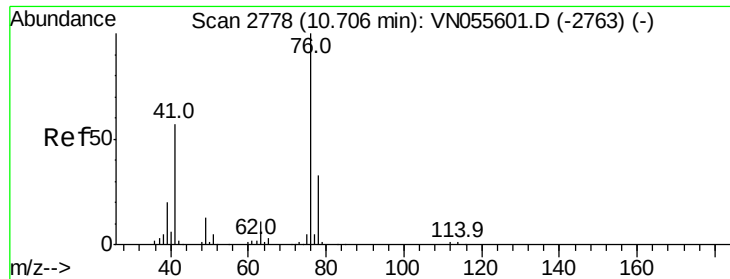
MMDadoda
 5/22/2019 4:11:25 PM



#56
 Ethyl methacrylate
 Concen: 22.454 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN055702.D
 Acq: 21 May 2019 12:18

Tgt Ion	69	Resp	107408
Ion	Ratio	Lower	Upper
69	100		
41	60.5	50.3	75.5
39	30.3	25.4	38.2





#57

1,3-Dichloropropane

Concen: 23.259 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. 0.00 min

Lab File: VN055702.D

Acq: 21 May 2019 12:18

Instrument :

MSVOA_N

ClientSampled :

VN0521MBSD01

Tot Ion: 76 Resp: 112881

Ion Ratio Lower Upper

76 100

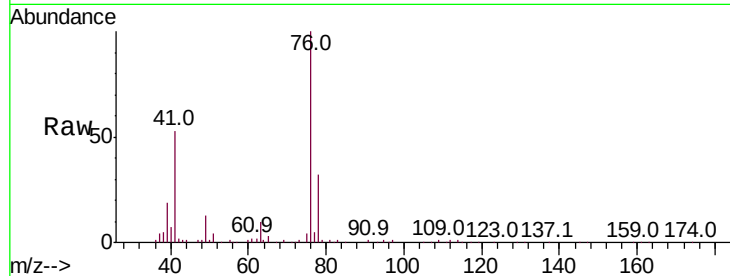
78 32.9 26.5 39.7

Manual Integrations

APPROVED

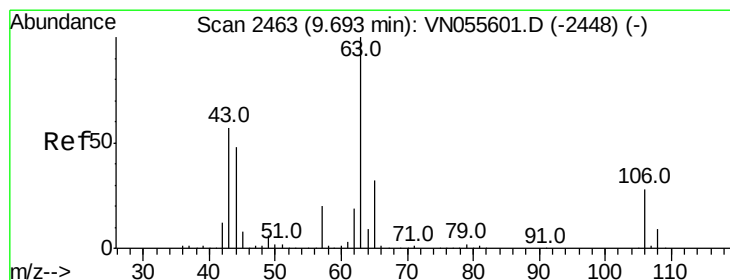
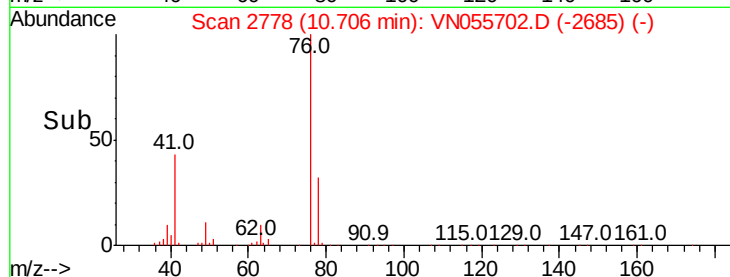
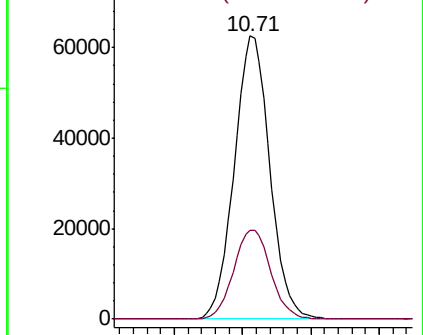
MMDadoda

5/22/2019 4:11:25 PM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 84.883 ug/l

RT: 9.69 min Scan# 2463

Delta R.T. 0.00 min

Lab File: VN055702.D

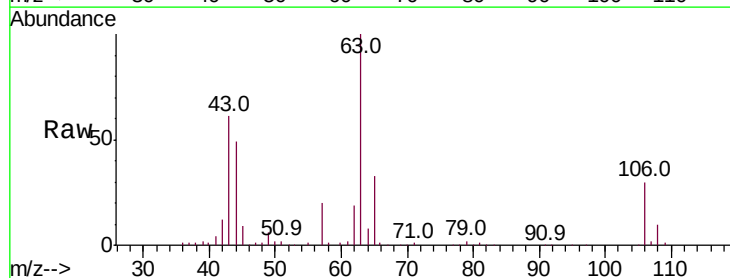
Acq: 21 May 2019 12:18

Tgt Ion: 63 Resp: 172523

Ion Ratio Lower Upper

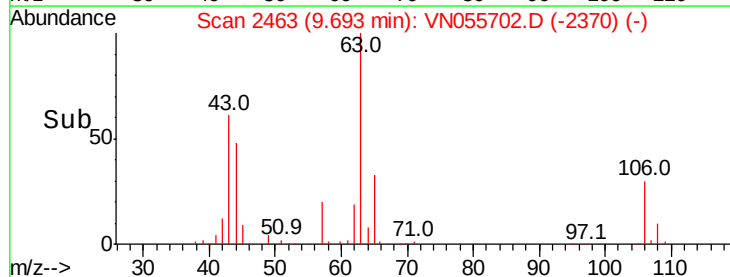
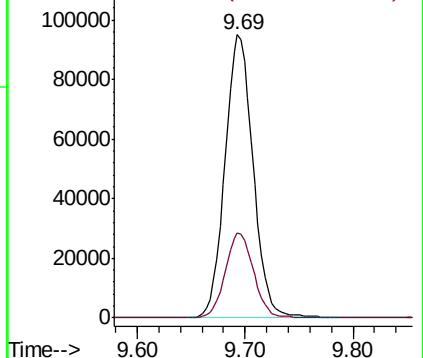
63 100

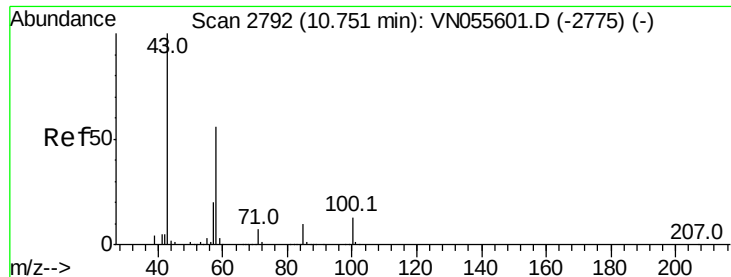
106 30.3 23.0 34.6



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V





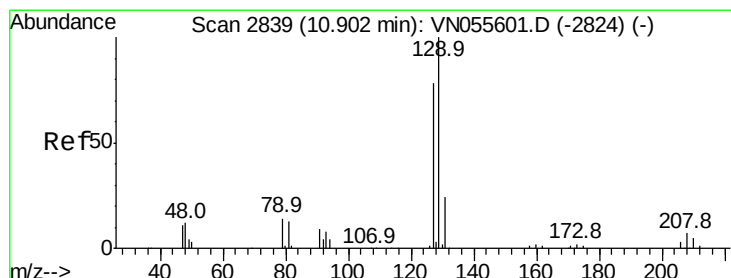
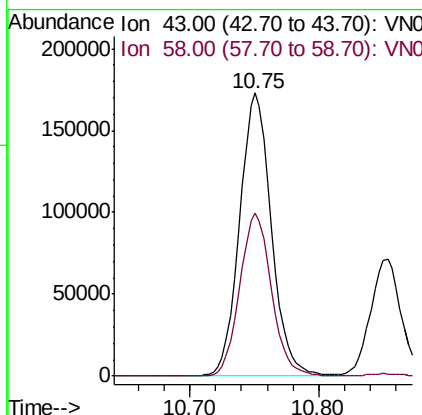
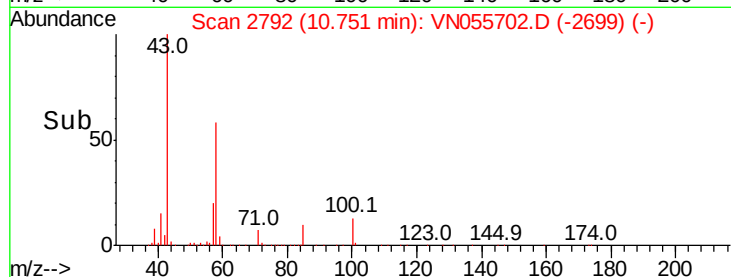
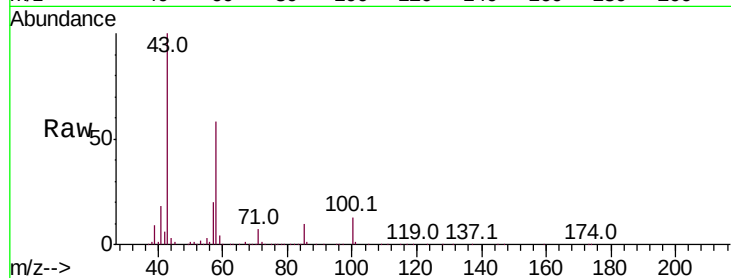
#59
2-Hexanone
Concen: 112.470 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN055702.D
Acq: 21 May 2019 12:18

Instrument :
MSVOA_N
ClientSampleId :
VN0521MBSD01

Tot Ion: 43 Resp: 294162
Ion Ratio Lower Upper
43 100
58 57.9 28.1 84.4

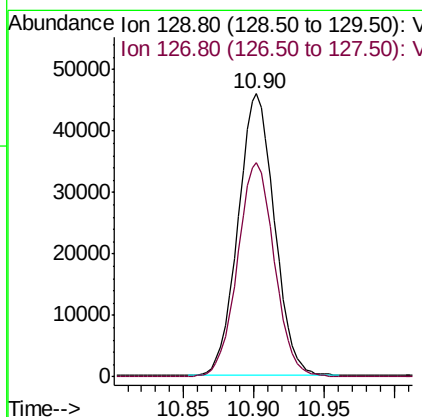
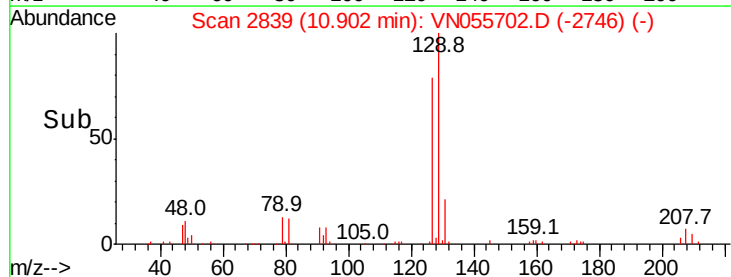
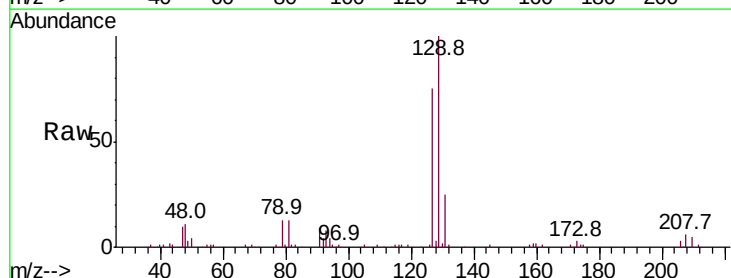
Manual Integrations
APPROVED

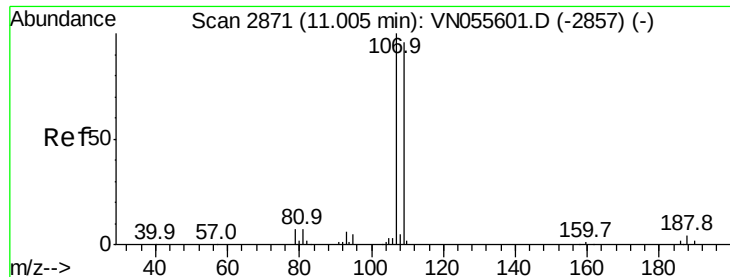
MMDadoda
5/22/2019 4:11:25 PM



#60
Dibromochloromethane
Concen: 23.798 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN055702.D
Acq: 21 May 2019 12:18

Tgt Ion: 129 Resp: 82650
Ion Ratio Lower Upper
129 100
127 77.4 38.6 115.8





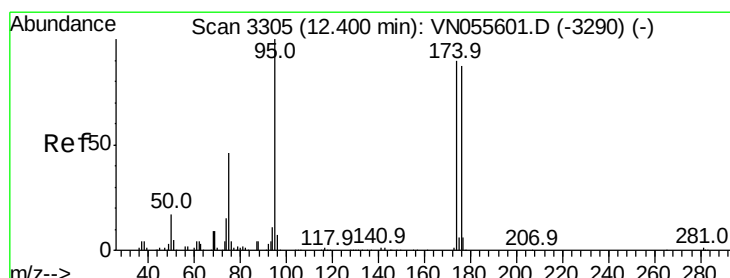
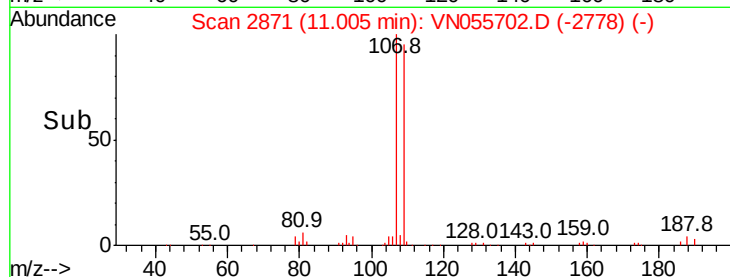
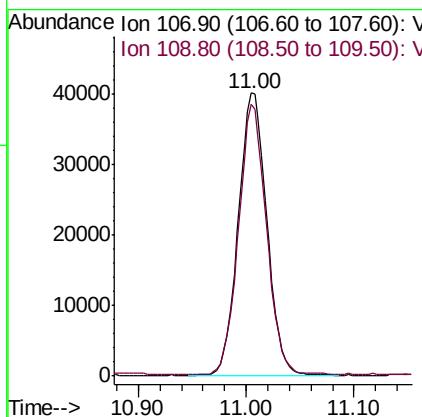
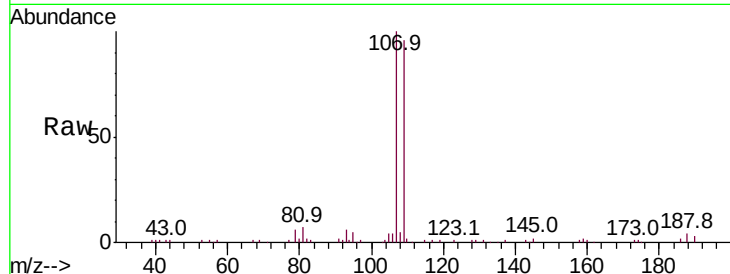
#61
 1,2-Dibromoethane
 Concen: 24.287 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. 0.00 min
 Lab File: VN055702.D
 Acq: 21 May 2019 12:18

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0521MBSD01

Tot Ion	Ratio	Lower	Upper
107	100		
109	92.3	75.6	113.4

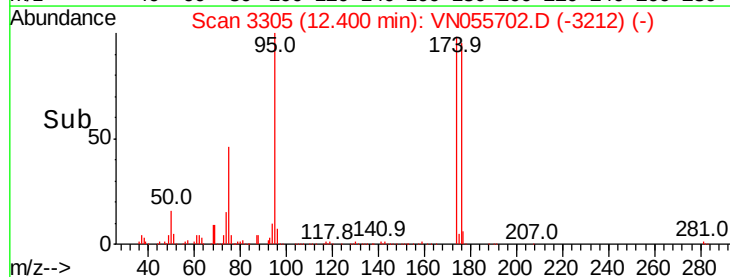
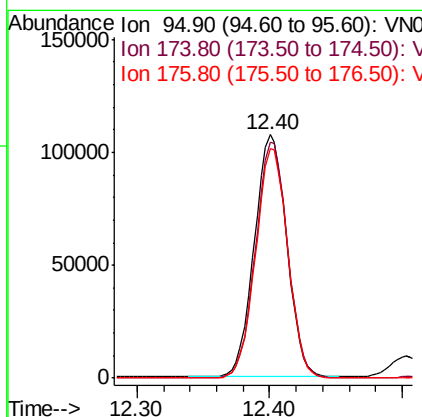
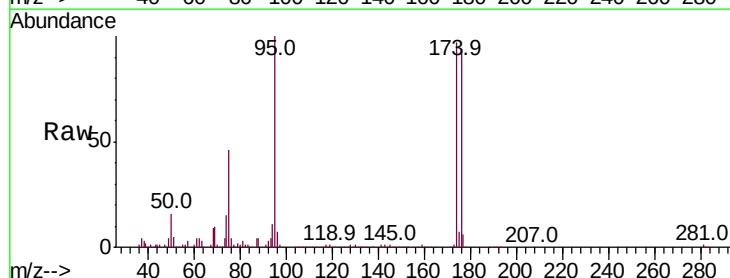
Manual Integrations
 APPROVED

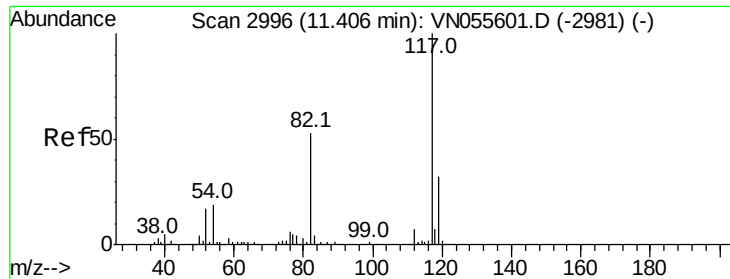
MMDadoda
 5/22/2019 4:11:25 PM



#62
 4-Bromofluorobenzene
 Concen: 48.189 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN055702.D
 Acq: 21 May 2019 12:18

Tgt Ion	Ratio	Lower	Upper
95	100		
174	96.8	0.0	180.6
176	94.5	0.0	177.4





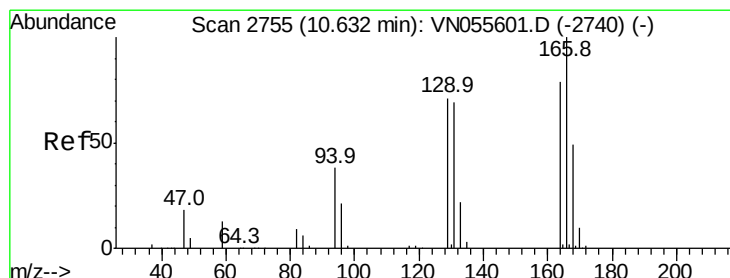
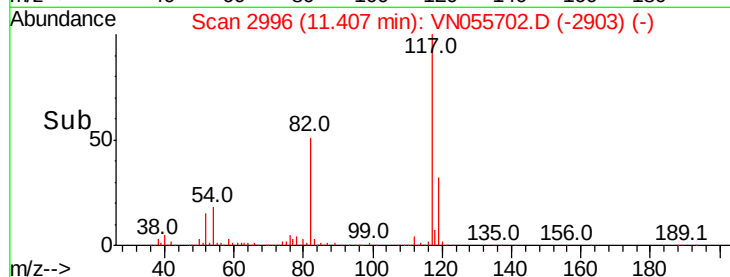
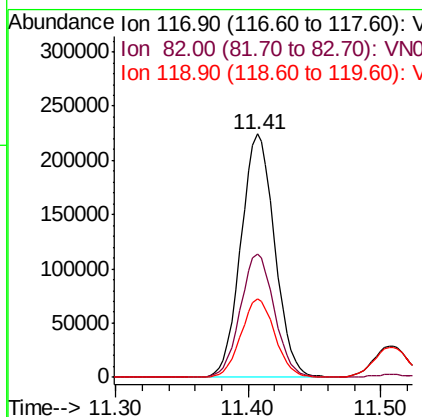
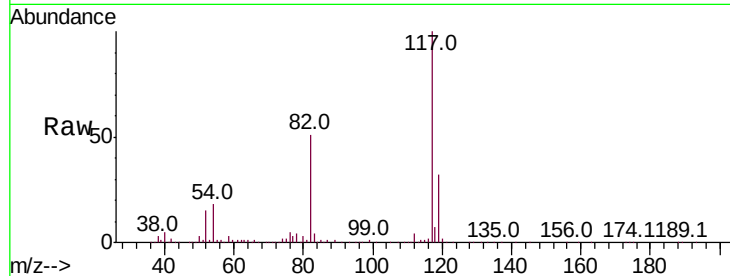
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055702.D
Acq: 21 May 2019 12:18

Instrument :
MSVOA_N
ClientSampleId :
VN0521MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	397109		
82	50.7		42.3	63.5
119	32.3		25.4	38.2

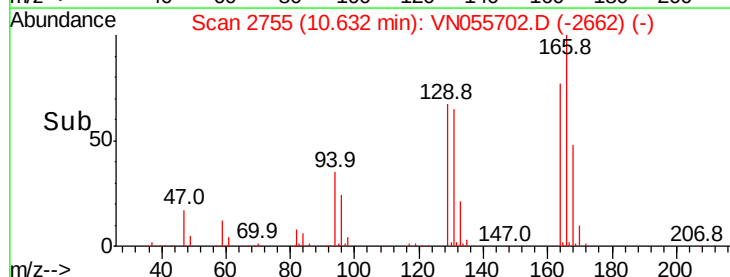
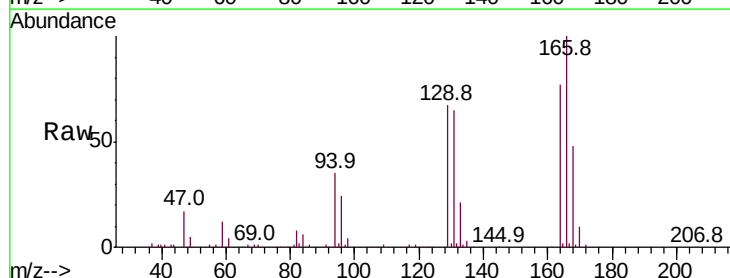
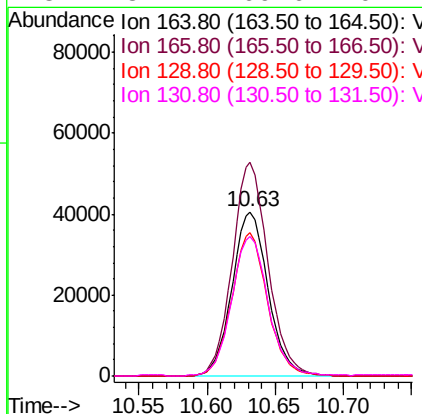
Manual Integrations
APPROVED

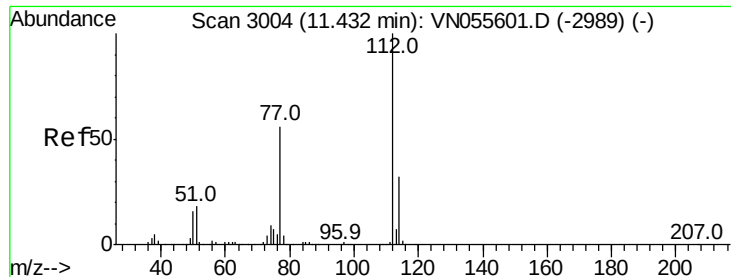
MMDadoda
5/22/2019 4:11:25 PM



#64
Tetrachloroethene
Concen: 23.812 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN055702.D
Acq: 21 May 2019 12:18

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	74581		
166	130.2		101.0	151.6
129	87.1		71.7	107.5
131	84.4		69.6	104.4





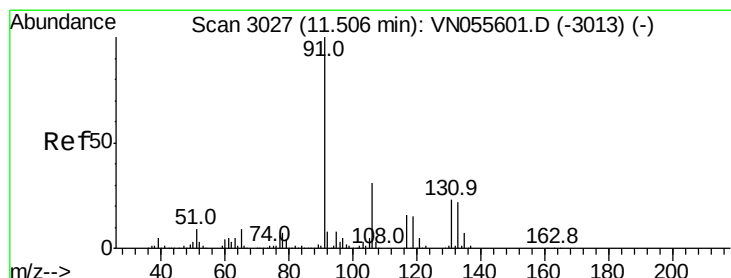
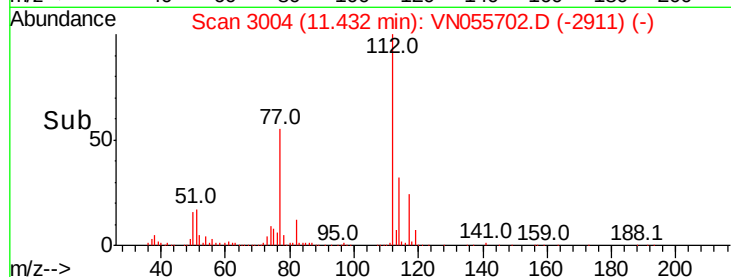
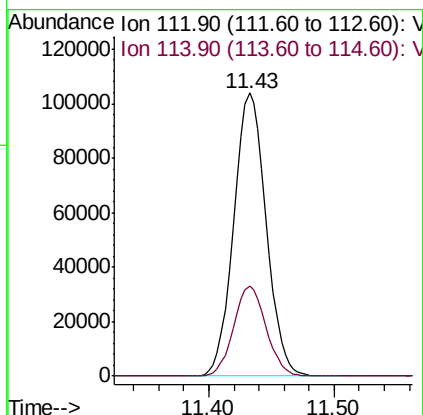
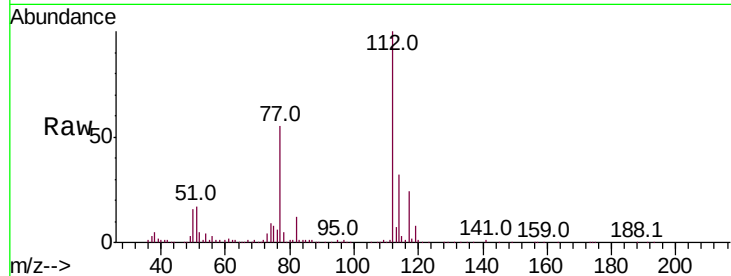
#65
Chlorobenzene
Concen: 23.204 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN055702.D
Acq: 21 May 2019 12:18

Instrument :
MSVOA_N
ClientSampleId :
VN0521MBSD01

Tot Ion:112 Resp: 186370
Ion Ratio Lower Upper
112 100
114 31.7 25.6 38.4

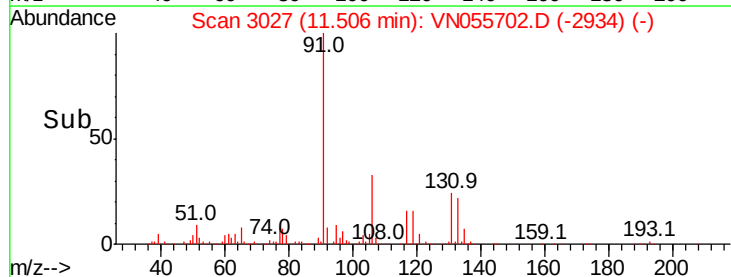
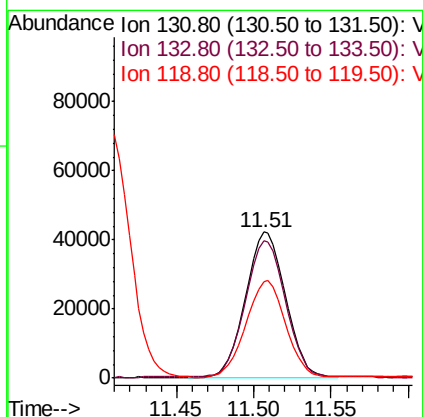
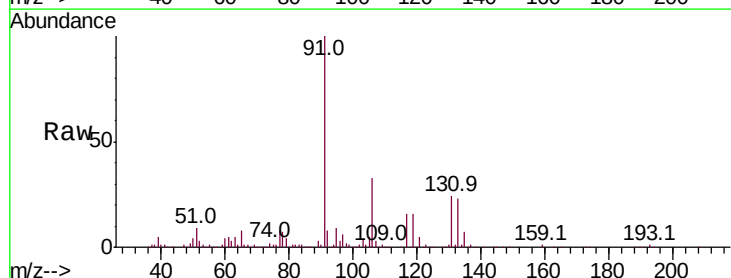
Manual Integrations
APPROVED

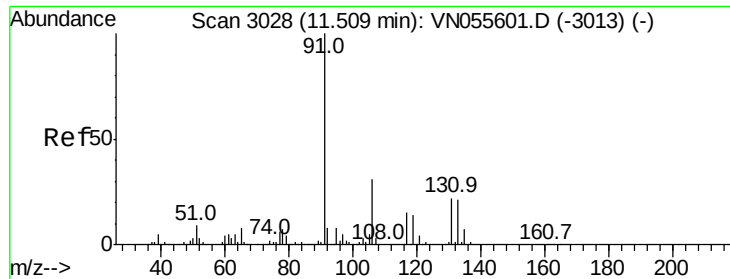
MMDadoda
5/22/2019 4:11:25 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 23.389 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. 0.00 min
Lab File: VN055702.D
Acq: 21 May 2019 12:18

Tgt Ion:131 Resp: 75576
Ion Ratio Lower Upper
131 100
133 93.9 47.8 143.4
119 65.7 33.3 99.8





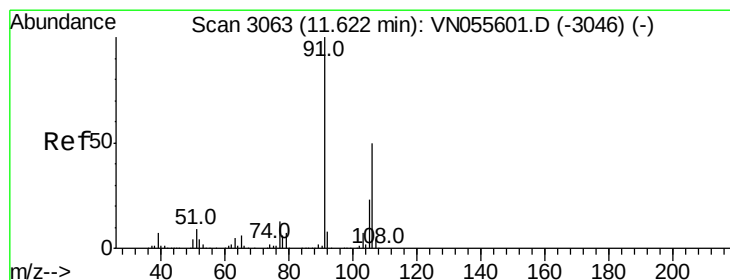
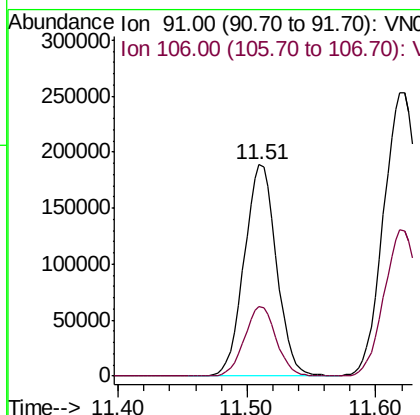
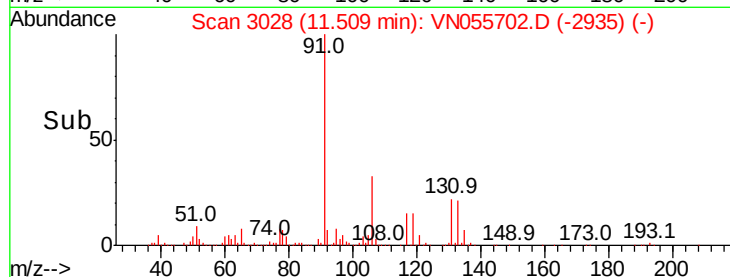
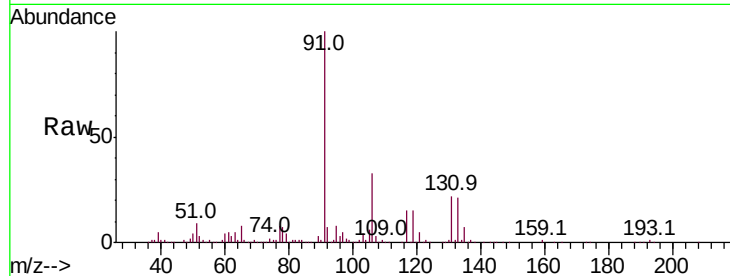
#67
Ethyl Benzene
Concen: 22.764 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN055702.D
Acq: 21 May 2019 12:18

Instrument :
MSVOA_N
ClientSampleId :
VN0521MBSD01

Tot Ion: 91 Resp: 325720
Ion Ratio Lower Upper
91 100
106 33.0 25.2 37.8

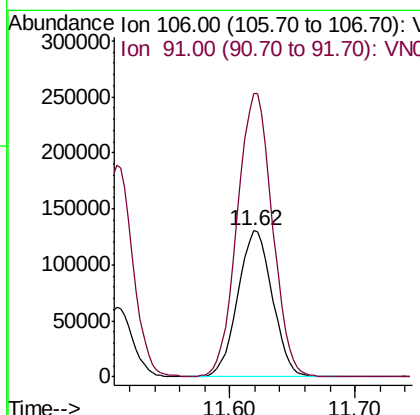
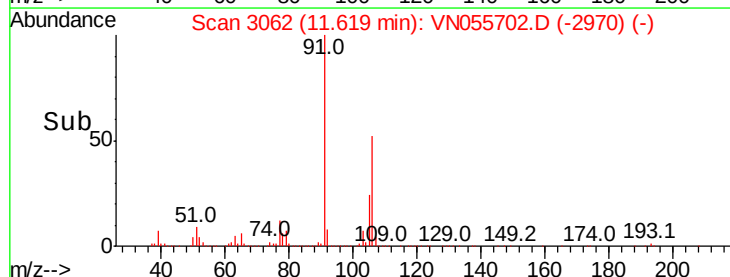
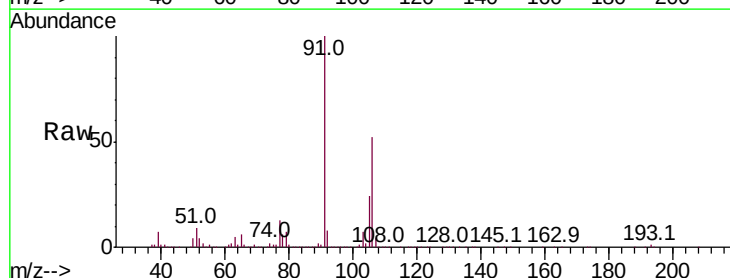
Manual Integrations
APPROVED

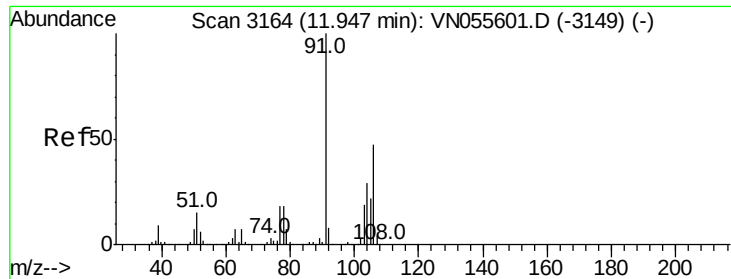
MMDadoda
5/22/2019 4:11:25 PM



#68
m/p-Xylenes
Concen: 46.254 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN055702.D
Acq: 21 May 2019 12:18

Tgt Ion: 106 Resp: 249925
Ion Ratio Lower Upper
106 100
91 196.6 160.5 240.7





#69

o-Xylene

Concen: 23.896 ug/l

RT: 11.95 min Scan# 3164

Delta R.T. 0.00 min

Lab File: VN055702.D

Acq: 21 May 2019 12:18

Instrument :

MSVOA_N

ClientSampled :

VN0521MBSD01

Tot Ion:106 Resp: 126290

Ion Ratio Lower Upper

106 100

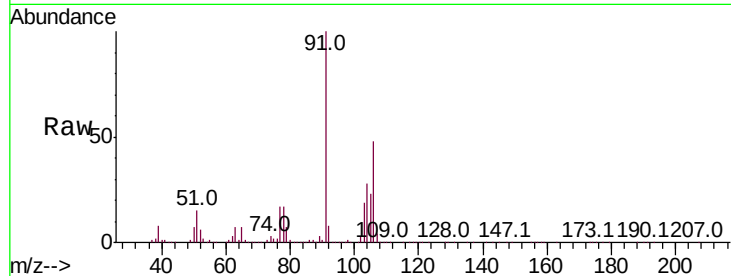
91 203.8 106.7 320.2

Manual Integrations

APPROVED

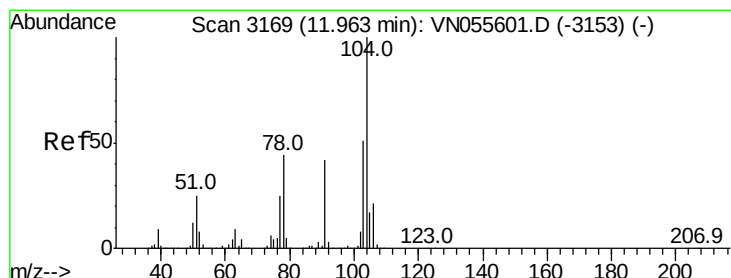
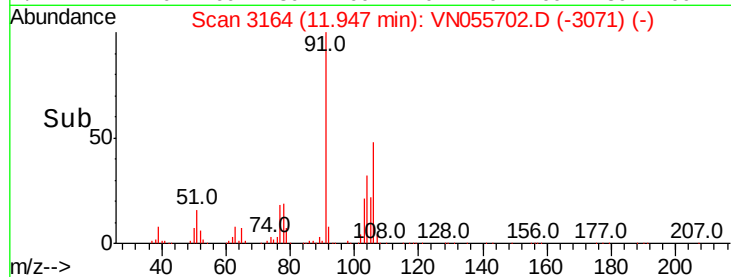
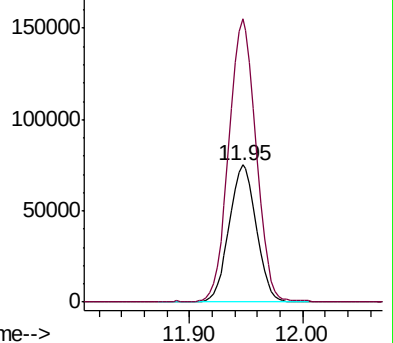
MMDadoda

5/22/2019 4:11:25 PM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN



#70

Styrene

Concen: 23.166 ug/l

RT: 11.96 min Scan# 3169

Delta R.T. 0.00 min

Lab File: VN055702.D

Acq: 21 May 2019 12:18

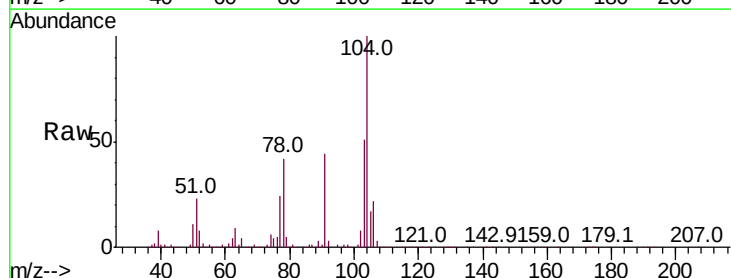
Tgt Ion:104 Resp: 203566

Ion Ratio Lower Upper

104 100

78 47.7 38.6 58.0

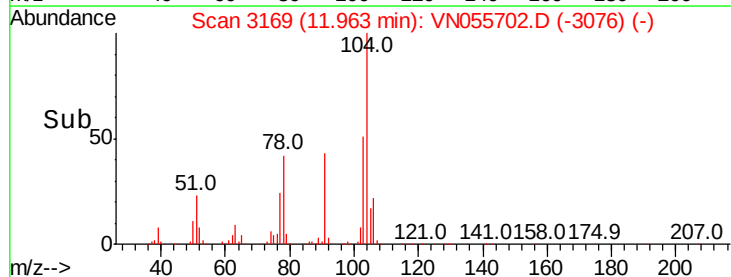
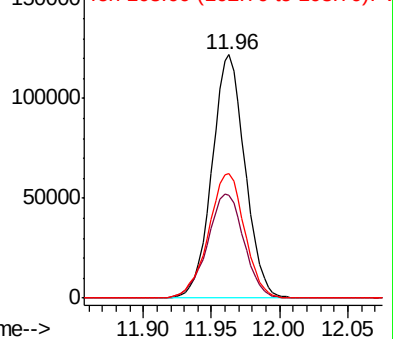
103 56.5 44.4 66.6

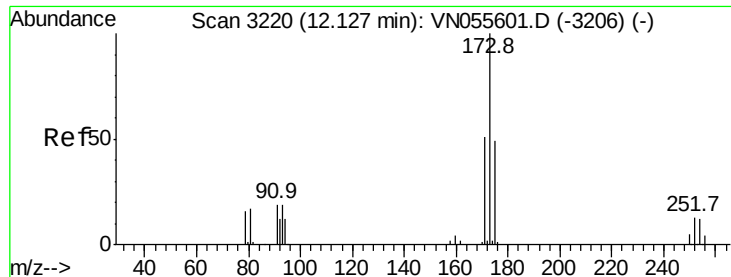


Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN

Ion 103.00 (102.70 to 103.70): V





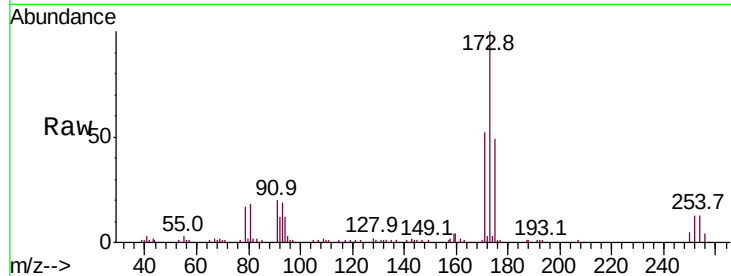
#71
Bromoform
Concen: 23.303 ug/l
RT: 12.12 min Scan# 3219
Delta R.T. -0.00 min
Lab File: VN055702.D
Acq: 21 May 2019 12:18

Instrument :
MSVOA_N
ClientSampleId :
VN0521MBSD01

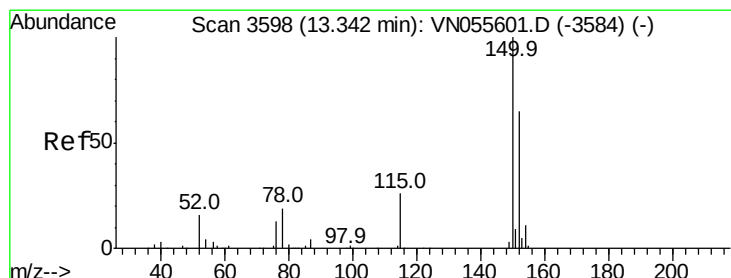
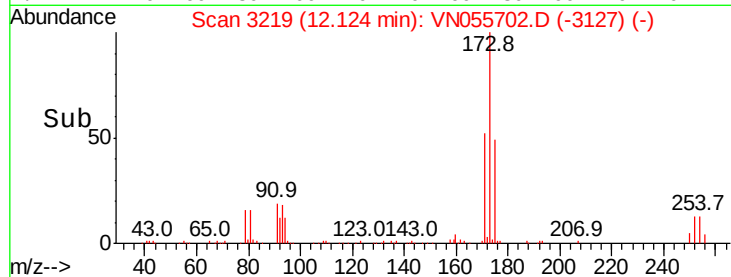
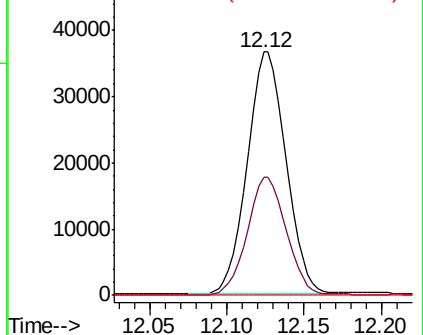
Tot Ion	Ratio	Lower	Upper
173	100		
175	49.2	24.3	72.9
254	0.0	0.1	0.1#

Manual Integrations
APPROVED

MMDadoda
5/22/2019 4:11:25 PM

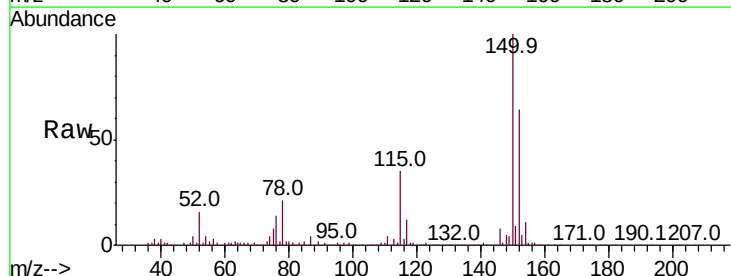


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

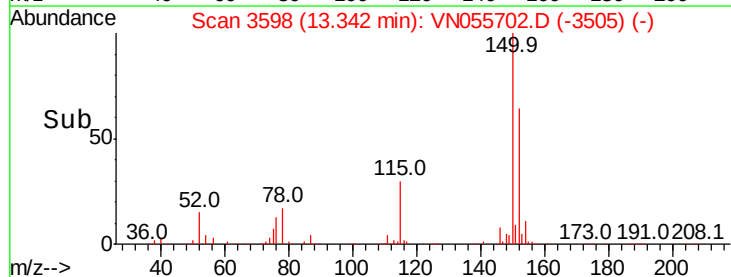
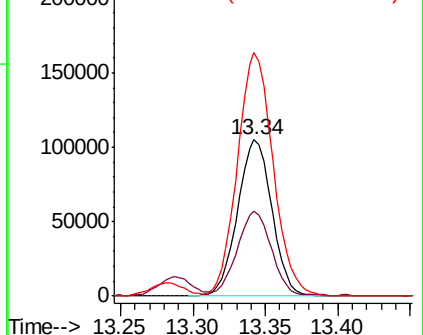


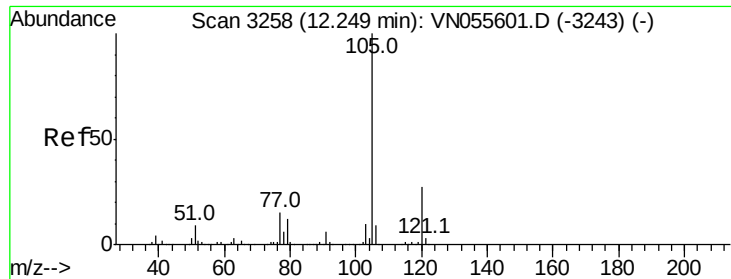
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN055702.D
Acq: 21 May 2019 12:18

Tgt Ion	Ratio	Lower	Upper
152	100		
115	53.4	28.1	84.2
150	162.9	0.0	348.0



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: 26.165 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN055702.D

Acq: 21 May 2019 12:18

Instrument :

MSVOA_N

ClientSampleId :

VN0521MBSD01

Tot Ion:105 Resp: 329057

Ion Ratio Lower Upper

105 100

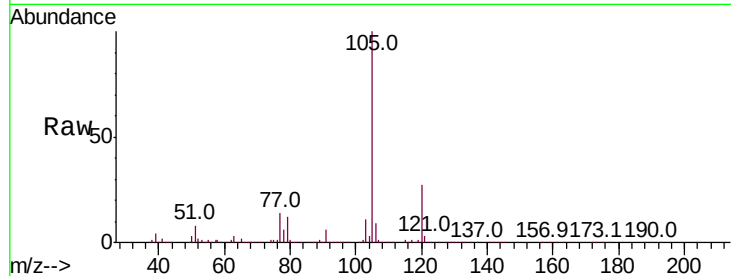
120 27.3 13.4 40.2

Manual Integrations

APPROVED

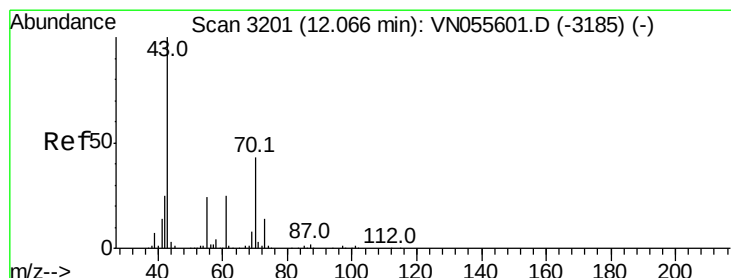
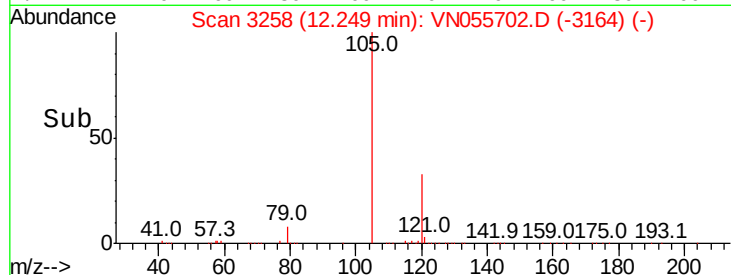
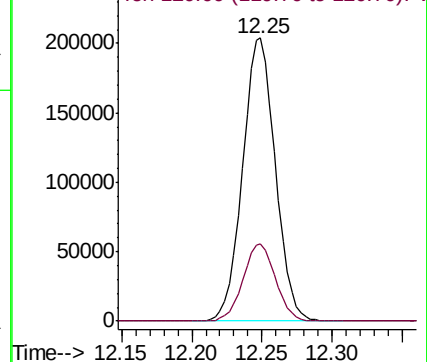
MMDadoda

5/22/2019 4:11:25 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 23.596 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN055702.D

Acq: 21 May 2019 12:18

Tgt Ion: 43 Resp: 113749

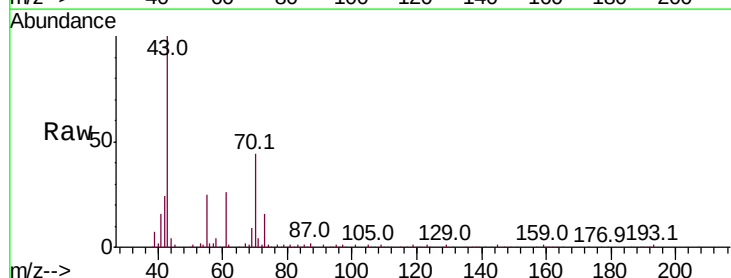
Ion Ratio Lower Upper

43 100

70 45.5 35.0 52.6

55 23.8 18.9 28.3

61 26.3 20.1 30.1

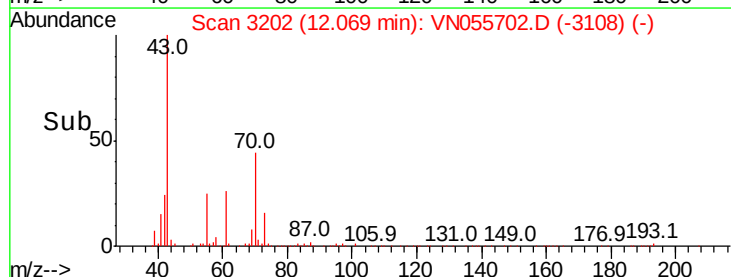
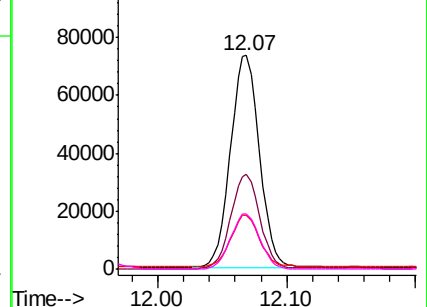


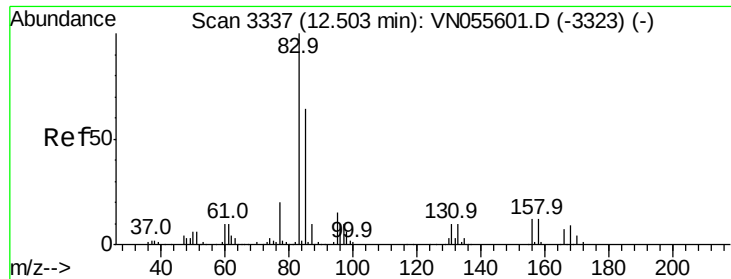
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 25.380 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN055702.D

Acq: 21 May 2019 12:18

Instrument :

MSVOA_N

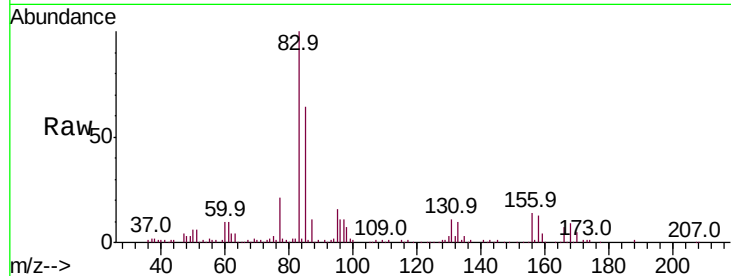
ClientSampleId :

VN0521MBSD01

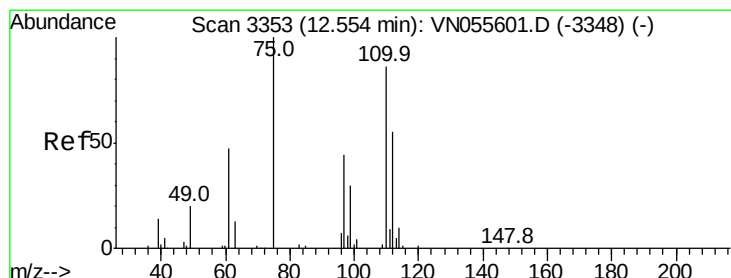
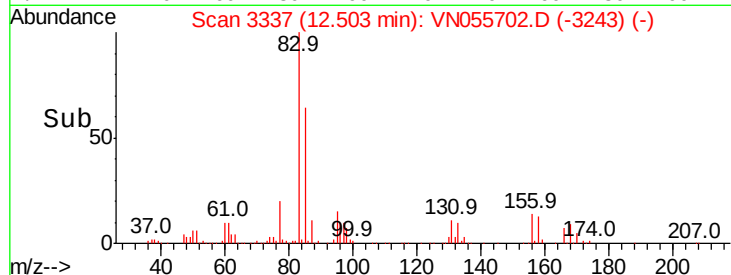
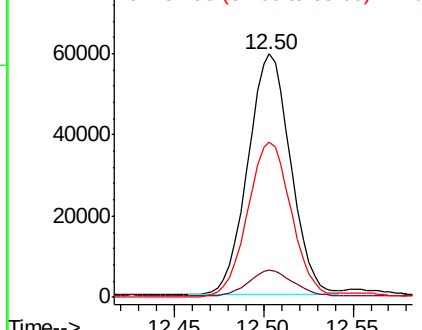
Tot Ion:	83	Resp:	99296
Ion Ratio	Lower	Upper	
83	100		
131	11.1	5.3	16.1
85	65.5	32.0	96.2

Manual Integrations
APPROVED

MMDadoda
5/22/2019 4:11:25 PM



Abundance Ion 82.90 (82.60 to 83.60): VN055702.D (-3243) (-)



#76

1,2,3-Trichloropropane

Concen: 22.853 ug/l m

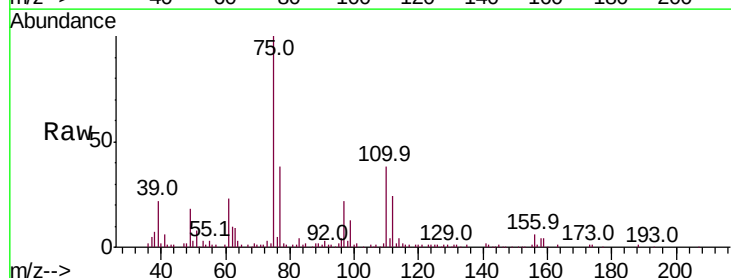
RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

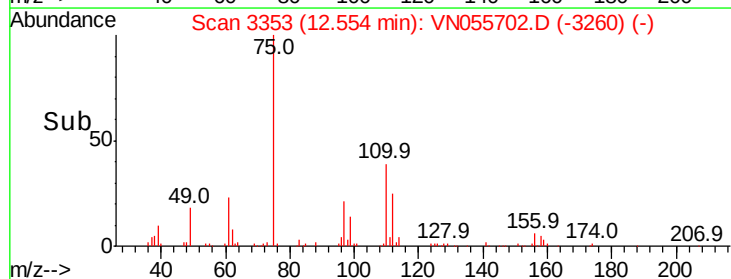
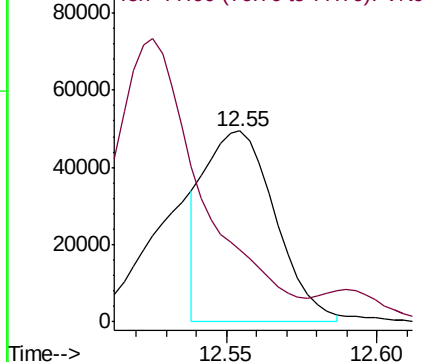
Lab File: VN055702.D

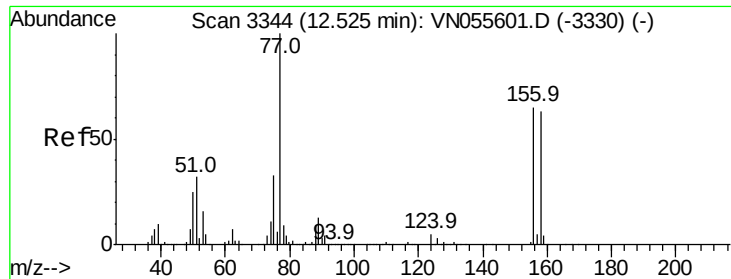
Acq: 21 May 2019 12:18

Tgt Ion:	75	Resp:	80056
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VN055702.D (-3260) (-)





#77

Bromobenzene

Concen: 26.145 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN055702.D

Acq: 21 May 2019 12:18

Instrument :

MSVOA_N

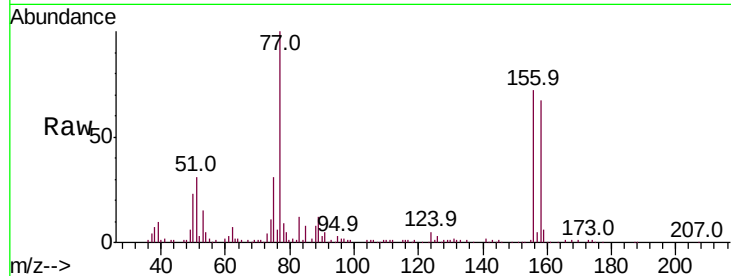
ClientSampleId :

VN0521MBSD01

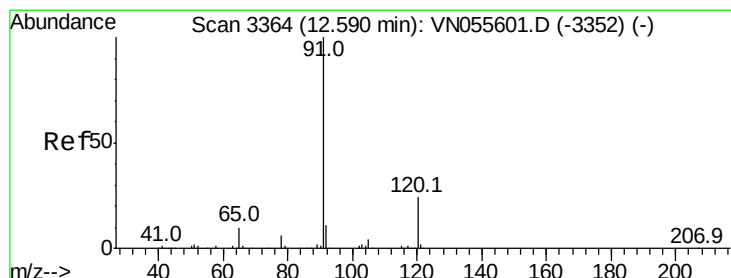
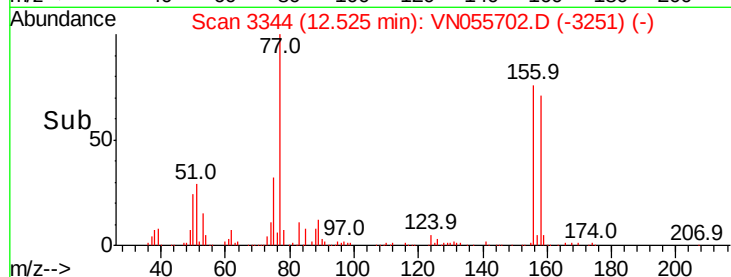
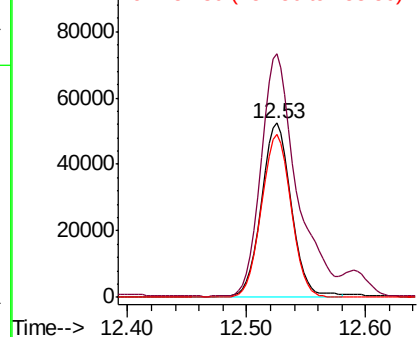
Tot Ion:	156	Resp:	92183
Ion	Ratio	Lower	Upper
156	100		
77	164.9	94.5	283.5
158	92.0	49.0	147.2

Manual Integrations
APPROVED

MMDadoda
5/22/2019 4:11:25 PM



Abundance Ion 155.80 (155.50 to 156.50): V
100000
Ion 77.00 (76.70 to 77.70): VN
Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 22.496 ug/l

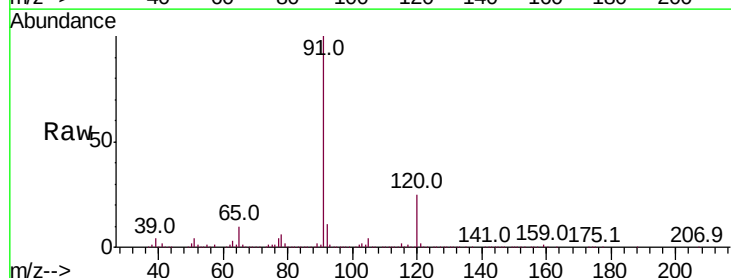
RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

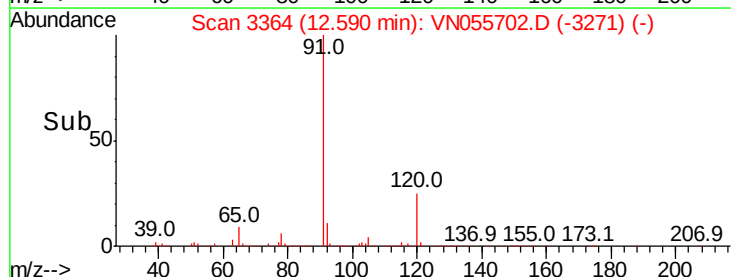
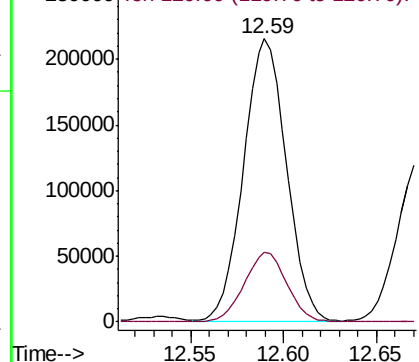
Lab File: VN055702.D

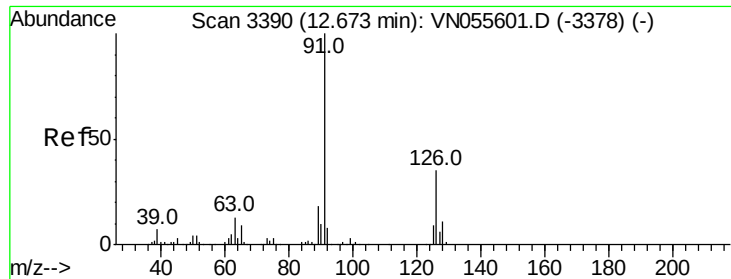
Acq: 21 May 2019 12:18

Tgt Ion:	91	Resp:	342966
Ion	Ratio	Lower	Upper
91	100		
120	24.7	11.9	35.5



Abundance Ion 91.00 (90.70 to 91.70): VN
250000
Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 25.121 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN055702.D

Acq: 21 May 2019 12:18

Instrument :

MSVOA_N

ClientSampleId :

VN0521MBSD01

Tot Ion: 91 Resp: 211790

Ion Ratio Lower Upper

91 100

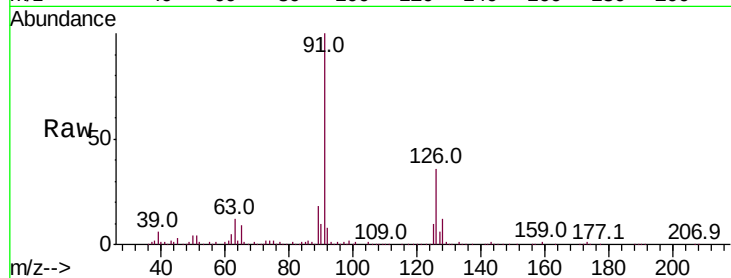
126 36.7 17.8 53.4

Manual Integrations

APPROVED

MMDadoda

5/22/2019 4:11:25 PM



Abundance Ion 91.00 (90.70 to 91.70): VN055601.D (-3378) (-)

Ion 125.90 (125.60 to 126.60): VN055601.D (-3378) (-)

200000

150000

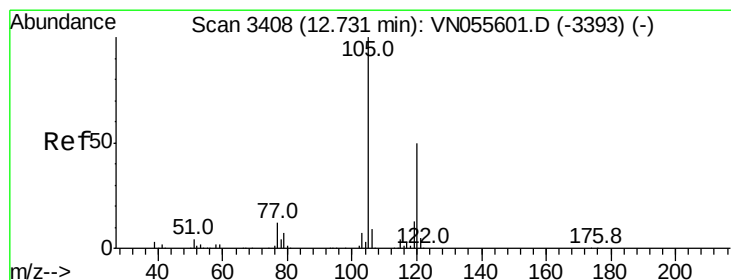
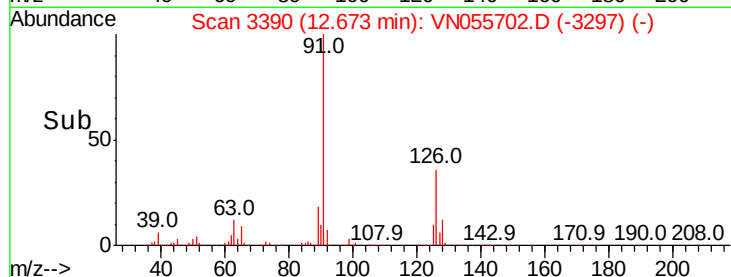
100000

50000

0

12.60 12.65 12.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 26.378 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN055702.D

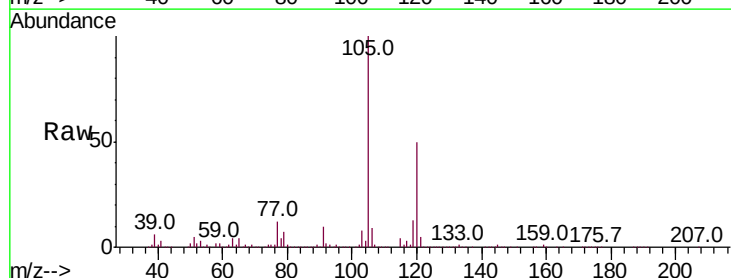
Acq: 21 May 2019 12:18

Tgt Ion:105 Resp: 281397

Ion Ratio Lower Upper

105 100

120 49.4 24.6 74.0



Abundance Ion 105.00 (104.70 to 105.70): VN055601.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN055601.D (-3393) (-)

200000

150000

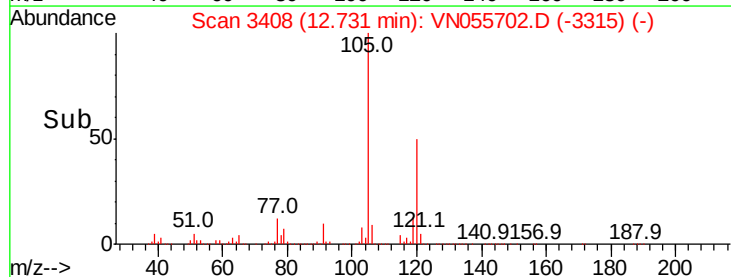
100000

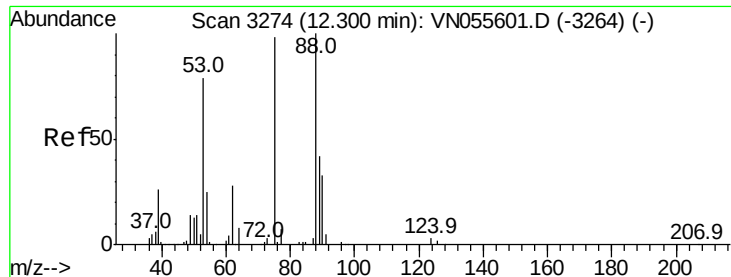
50000

0

12.70 12.80

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 21.477 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN055702.D

Acq: 21 May 2019 12:18

Instrument :

MSVOA_N

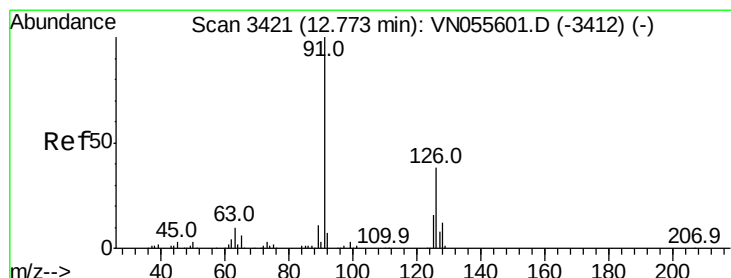
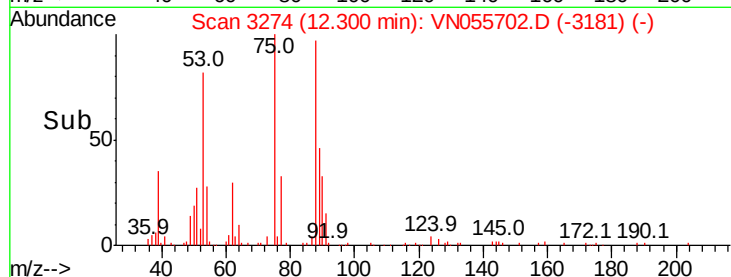
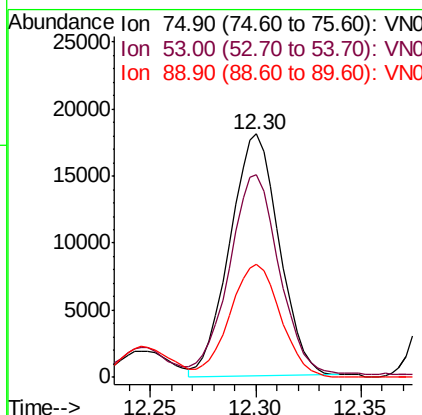
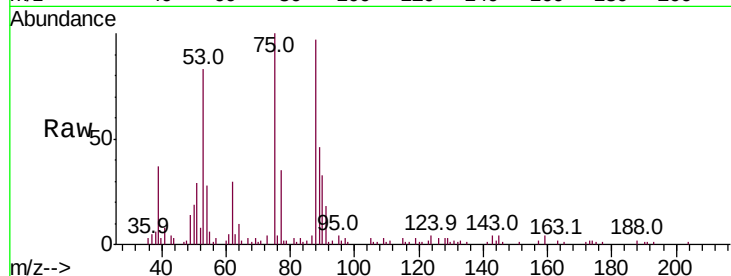
ClientSampleId :

VN0521MBSD01

Tot Ion:	75	Resp:	29268
Ion	Ratio	Lower	Upper
75	100		
53	83.4	65.1	97.7
89	47.9	36.4	54.6

Manual Integrations
APPROVED

MMDadoda
5/22/2019 4:11:25 PM



#82

4-Chlorotoluene

Concen: 22.411 ug/l

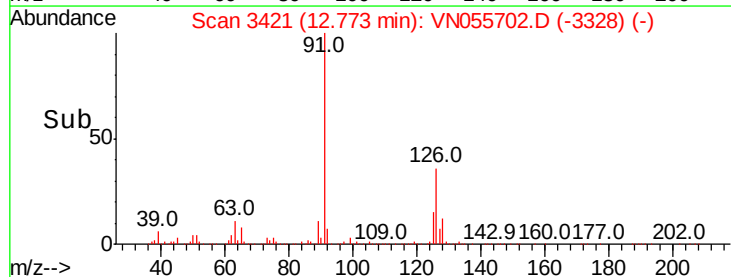
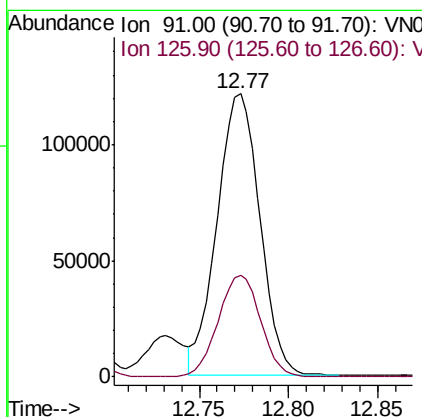
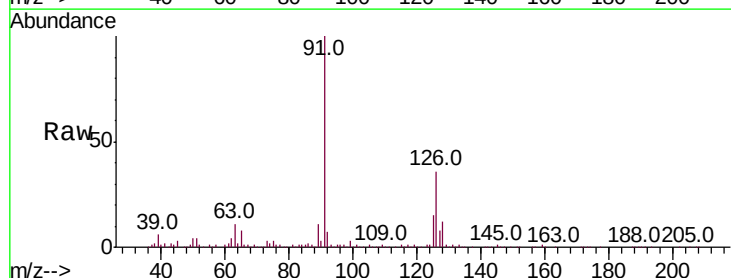
RT: 12.77 min Scan# 3421

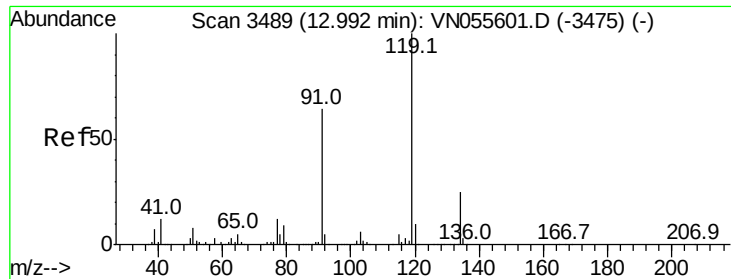
Delta R.T. 0.00 min

Lab File: VN055702.D

Acq: 21 May 2019 12:18

Tgt Ion:	91	Resp:	201306
Ion	Ratio	Lower	Upper
91	100		
126	36.1	17.5	52.6





#83

tert-Butylbenzene

Concen: 26.770 ug/l

RT: 12.99 min Scan# 3489

Delta R.T. 0.00 min

Lab File: VN055702.D

Acq: 21 May 2019 12:18

Instrument :

MSVOA_N

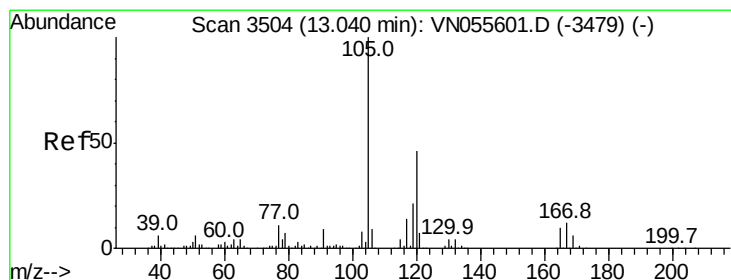
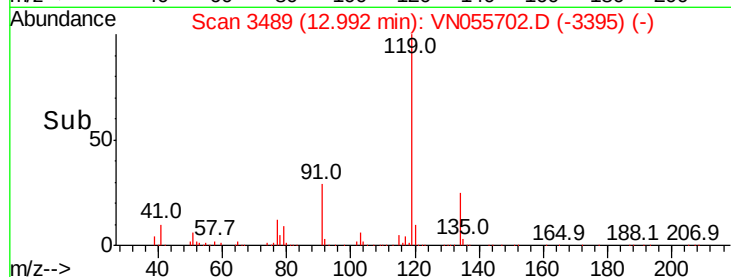
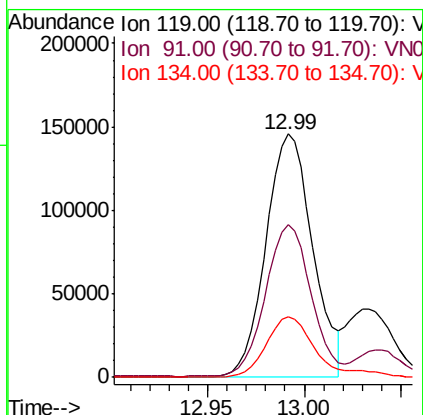
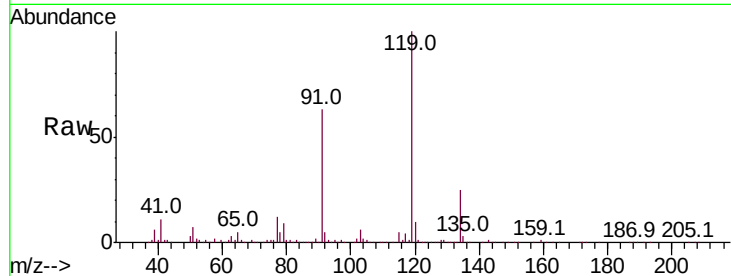
ClientSampleId :

VN0521MBSD01

Tot Ion:	119	Resp:	245094
Ion Ratio	Lower	Upper	
119	100		
91	61.1	31.3	93.8
134	26.7	13.2	39.6

Manual Integrations
APPROVED

MMDadoda
5/22/2019 4:11:25 PM



#84

1,2,4-Trimethylbenzene

Concen: 25.618 ug/l

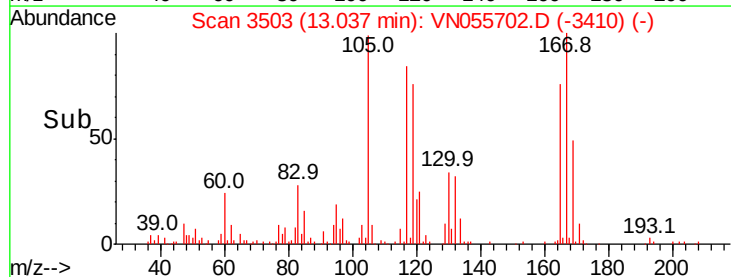
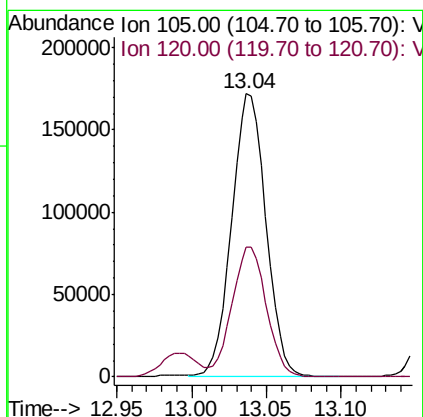
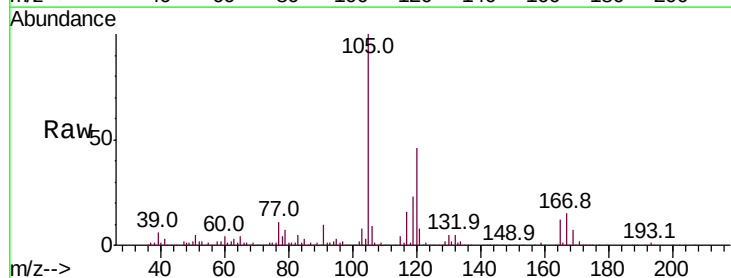
RT: 13.04 min Scan# 3503

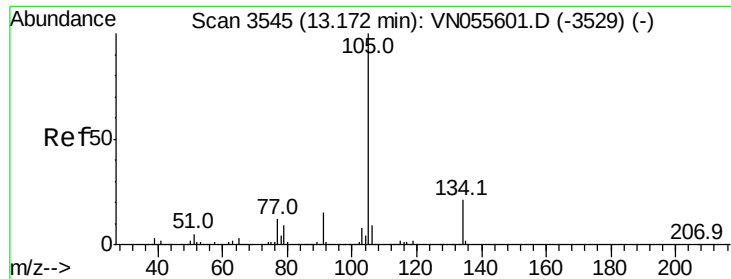
Delta R.T. -0.00 min

Lab File: VN055702.D

Acq: 21 May 2019 12:18

Tgt Ion:	105	Resp:	272002
Ion Ratio	Lower	Upper	
105	100		
120	46.2	23.1	69.2





#85

sec-Butylbenzene

Concen: 25.965 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN055702.D

Acq: 21 May 2019 12:18

Instrument :

MSVOA_N

ClientSampleId :

VN0521MBSD01

Tot Ion:105 Resp: 309809

Ion Ratio Lower Upper

105 100

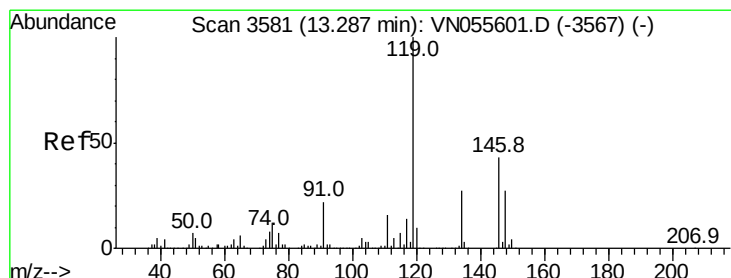
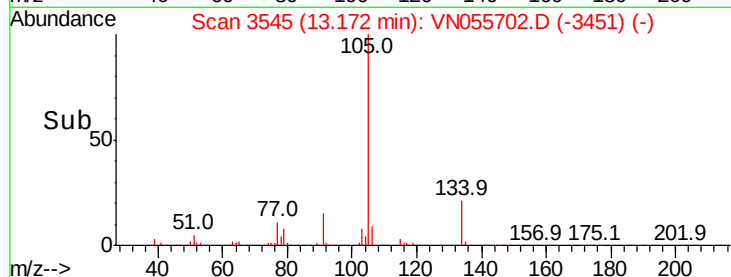
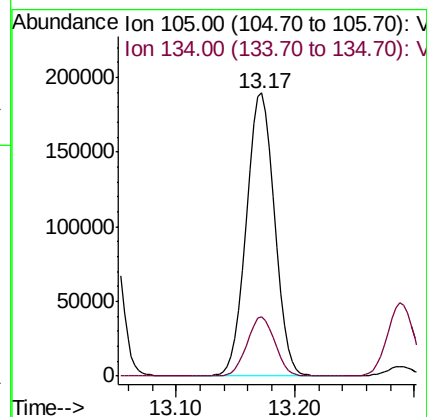
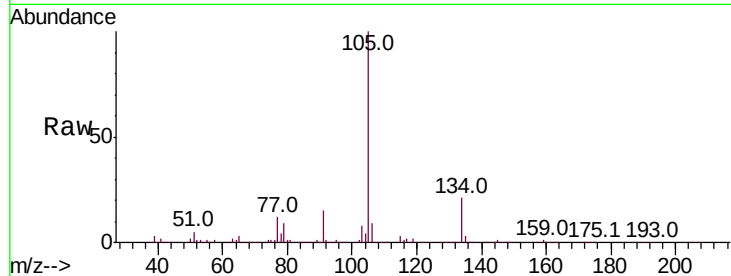
134 20.9 10.3 30.9

Manual Integrations

APPROVED

MMDadoda

5/22/2019 4:11:25 PM



#86

p-Isopropyltoluene

Concen: 25.942 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN055702.D

Acq: 21 May 2019 12:18

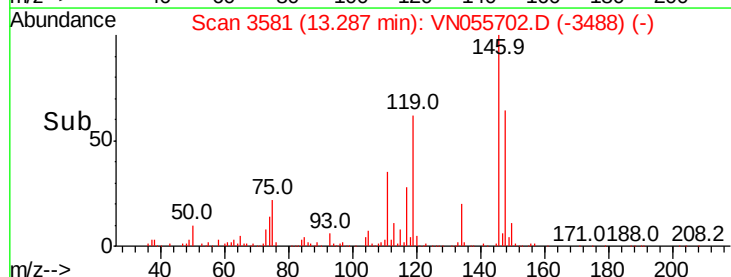
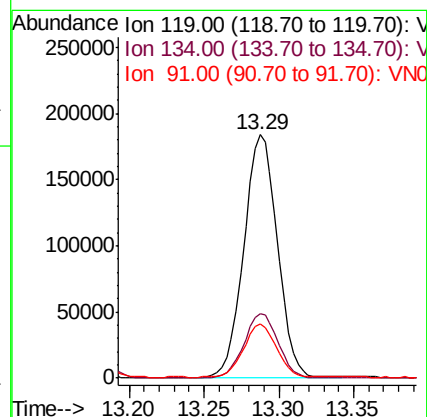
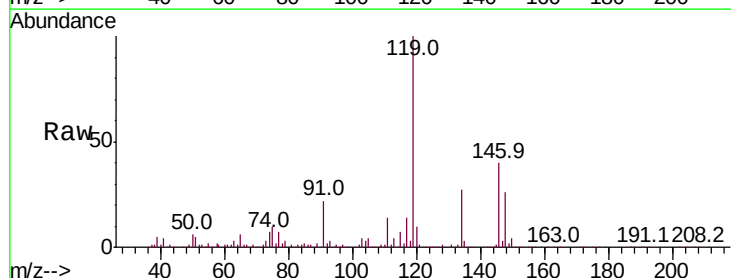
Tgt Ion:119 Resp: 286204

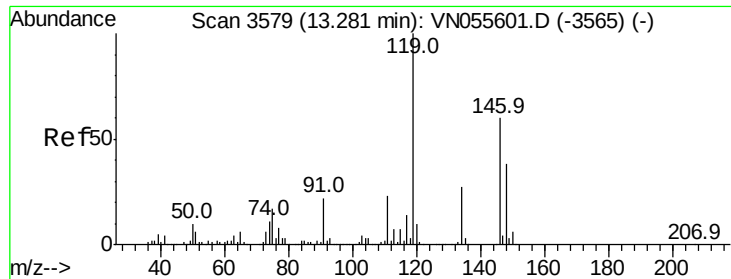
Ion Ratio Lower Upper

119 100

134 27.0 13.4 40.2

91 21.4 11.0 33.0





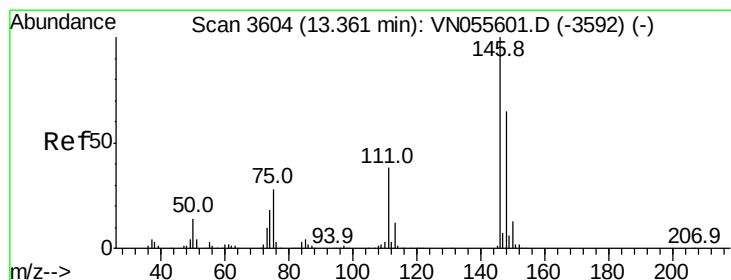
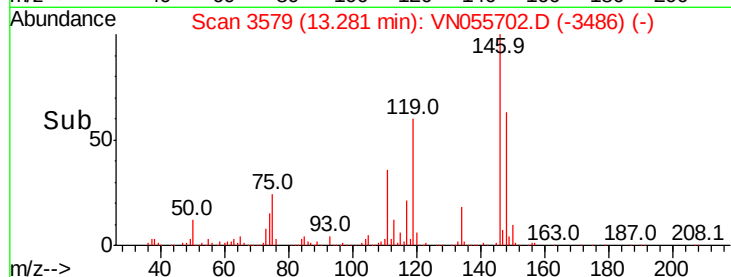
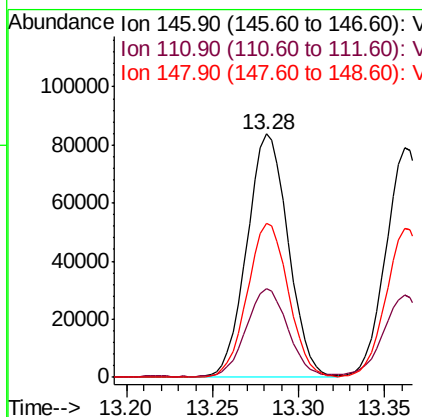
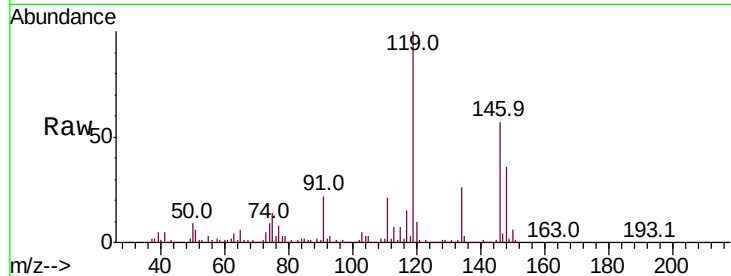
#87
1,3-Dichlorobenzene
Concen: 23.969 ug/l
RT: 13.28 min Scan# 3579
Delta R.T. 0.00 min
Lab File: VN055702.D
Acq: 21 May 2019 12:18

Instrument :
MSVOA_N
ClientSampleId :
VN0521MBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	35.9	18.9	56.9
148	62.9	31.9	95.9

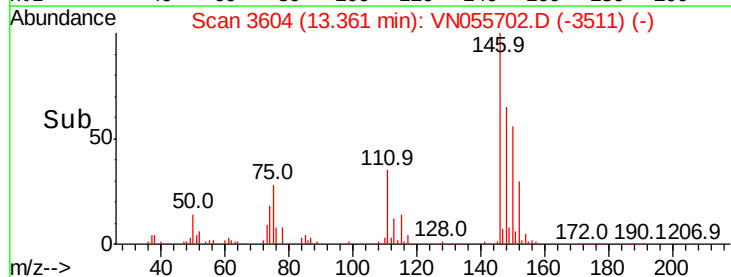
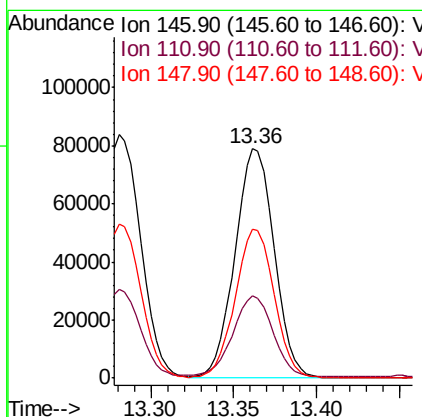
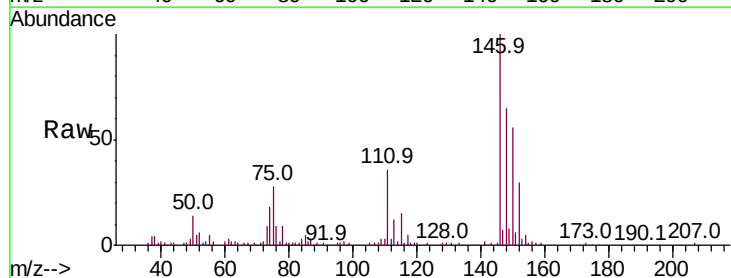
Manual Integrations
APPROVED

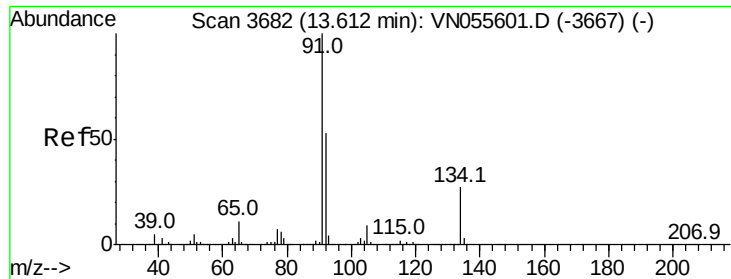
MMDadoda
5/22/2019 4:11:25 PM



#88
1,4-Dichlorobenzene
Concen: 23.235 ug/l
RT: 13.36 min Scan# 3604
Delta R.T. 0.00 min
Lab File: VN055702.D
Acq: 21 May 2019 12:18

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.4	18.8	56.4
148	64.7	32.4	97.0





#89

n-Butylbenzene

Concen: 23.011 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. 0.00 min

Lab File: VN055702.D

Acq: 21 May 2019 12:18

Instrument :

MSVOA_N

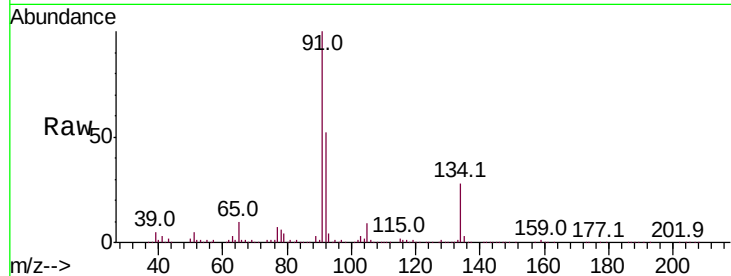
ClientSampleId :

VN0521MBSD01

Tot Ion:	91	Resp:	216777
Ion Ratio	Lower	Upper	
91	100		
92	52.9	26.4	79.0
134	28.9	13.7	41.1

Manual Integrations
APPROVED

MMDadoda
5/22/2019 4:11:25 PM



Abundance Ion 91.00 (90.70 to 91.70): VN055601.D (-3667) (-)

Ion 92.00 (91.70 to 92.70): VN055601.D (-3667) (-)

Ion 134.00 (133.70 to 134.70): VN055601.D (-3667) (-)

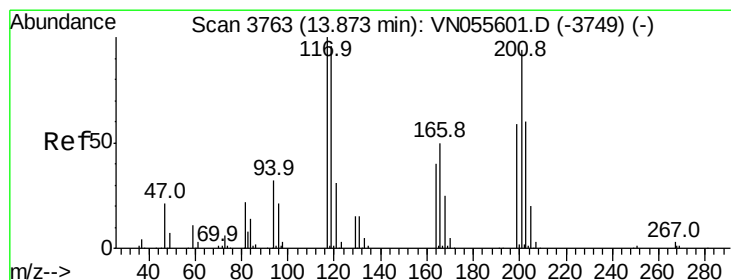
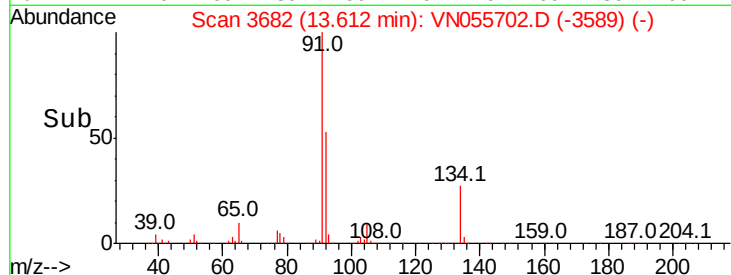
150000

100000

50000

0

Time--> 13.50 13.60 13.70



#90

Hexachloroethane

Concen: 25.033 ug/l

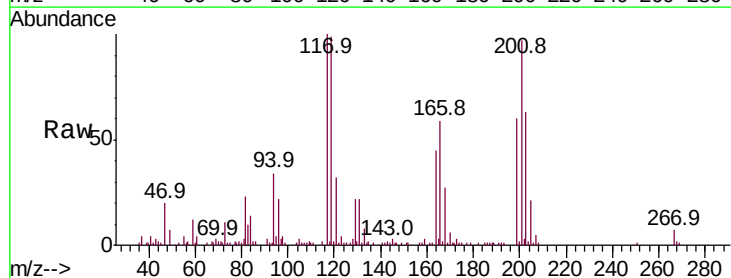
RT: 13.87 min Scan# 3763

Delta R.T. 0.00 min

Lab File: VN055702.D

Acq: 21 May 2019 12:18

Tgt Ion:	117	Resp:	53312
Ion Ratio	Lower	Upper	
117	100		
201	100.2	47.1	141.3



Abundance Ion 116.80 (116.50 to 117.50): VN055601.D (-3749) (-)

Ion 200.70 (200.40 to 201.40): VN055601.D (-3749) (-)

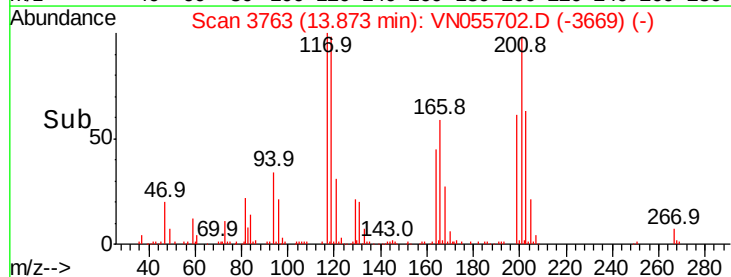
30000

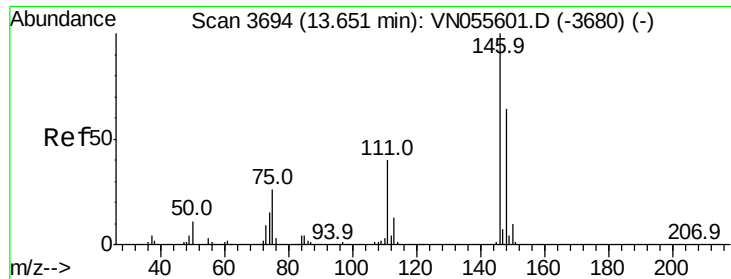
20000

10000

0

Time--> 13.80 13.90





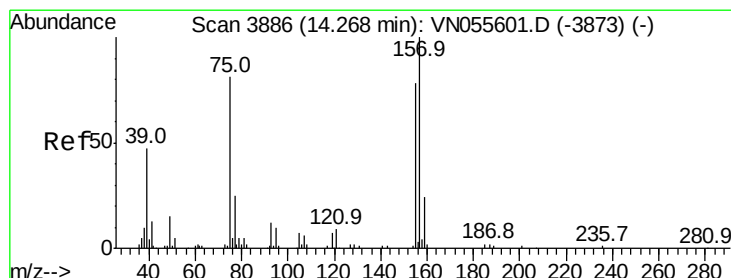
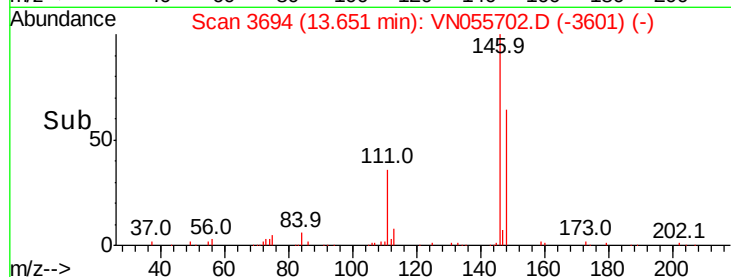
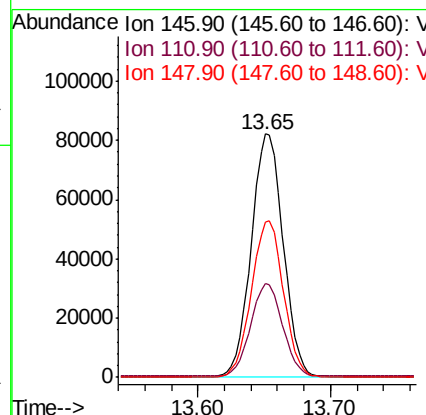
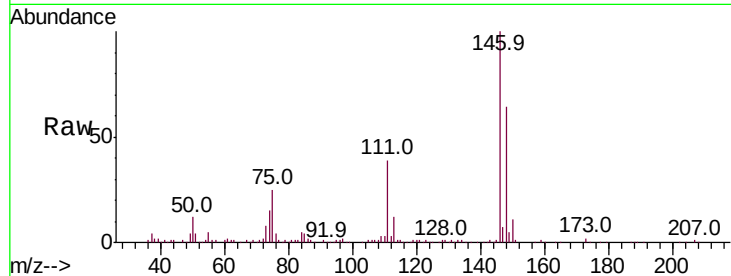
#91
 1,2-Dichlorobenzene
 Concen: 23.728 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. 0.00 min
 Lab File: VN055702.D
 Acq: 21 May 2019 12:18

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0521MBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.7	19.7	59.0
148	64.5	32.1	96.3

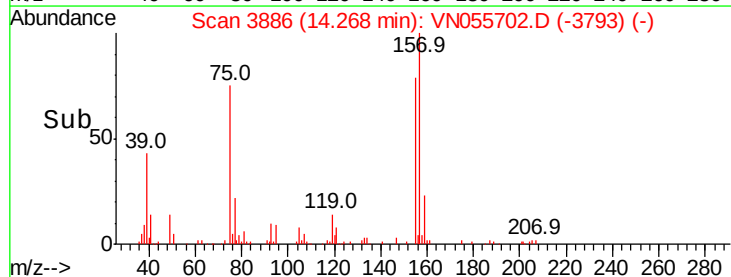
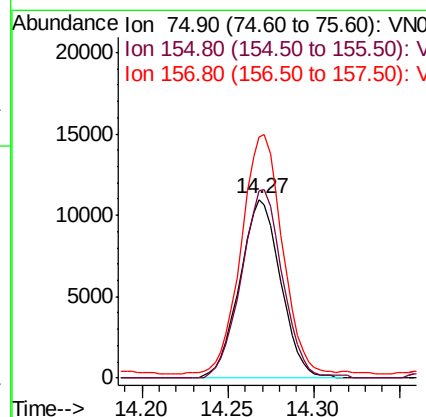
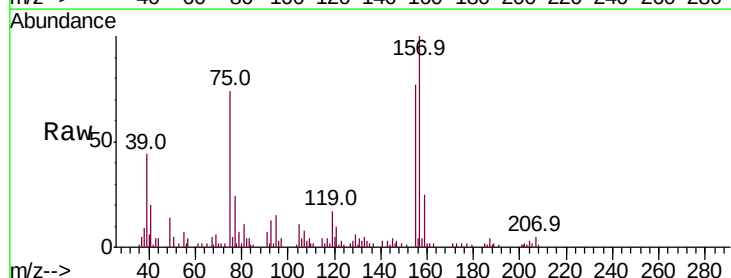
Manual Integrations
 APPROVED

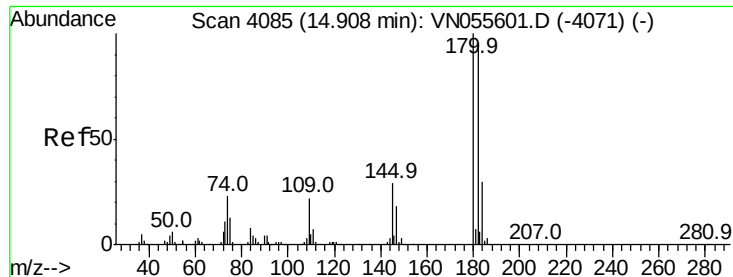
MMDadoda
 5/22/2019 4:11:25 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 23.297 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN055702.D
 Acq: 21 May 2019 12:18

Tgt Ion	Ratio	Lower	Upper
75	100		
155	105.6	48.4	145.0
157	134.5	62.3	186.8





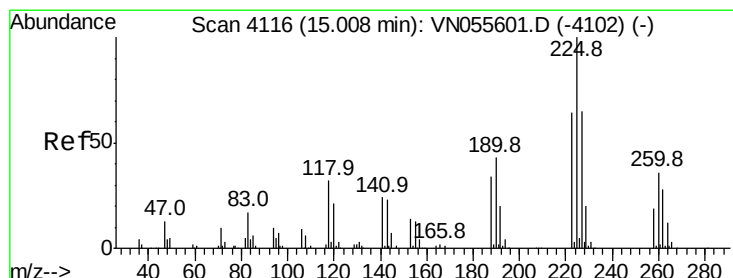
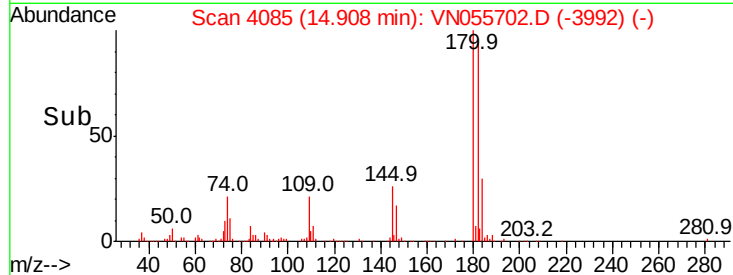
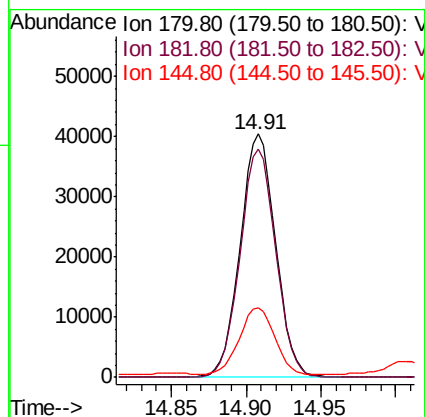
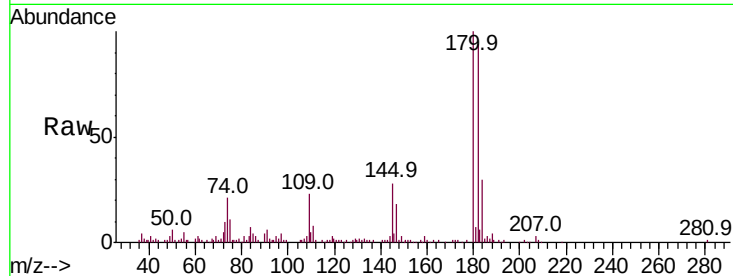
#93
 1,2,4-Trichlorobenzene
 Concen: 22.532 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN055702.D
 Acq: 21 May 2019 12:18

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0521MBSD01

Tot Ion:	180	Resp:	66650
Ion Ratio	Lower	Upper	
180	100		
182	94.1	47.9	143.6
145	26.9	14.3	42.9

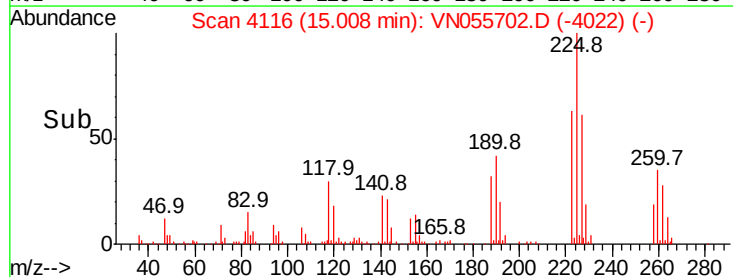
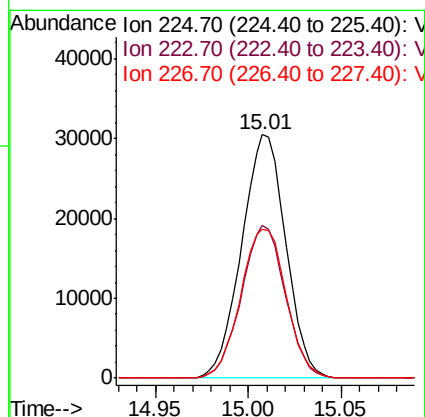
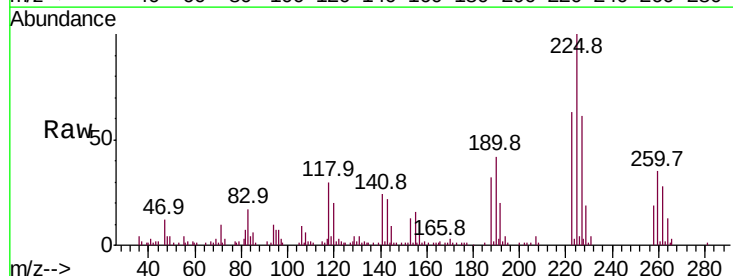
Manual Integrations
 APPROVED

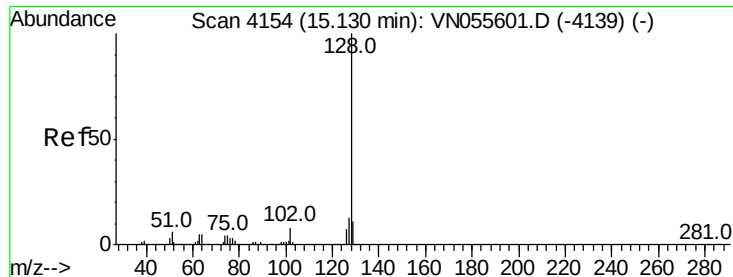
MMDadoda
 5/22/2019 4:11:25 PM



#94
 Hexachlorobutadiene
 Concen: 26.863 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN055702.D
 Acq: 21 May 2019 12:18

Tgt Ion:	225	Resp:	50368
Ion Ratio	Lower	Upper	
225	100		
223	62.3	31.6	94.7
227	63.1	32.4	97.0





#95

Naphthalene

Concen: 22.789 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN055702.D

Acq: 21 May 2019 12:18

Instrument :

MSVOA_N

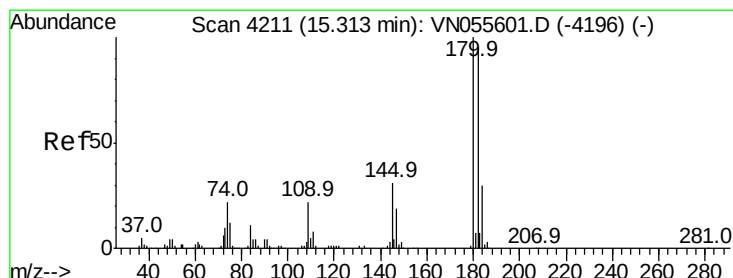
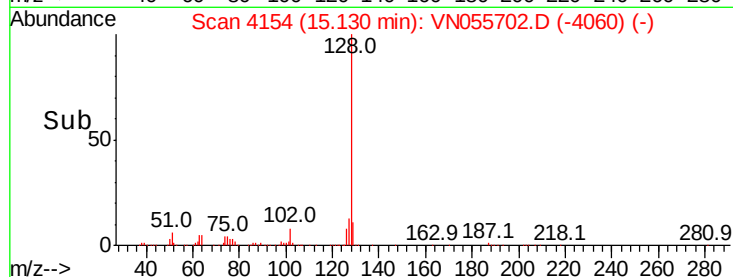
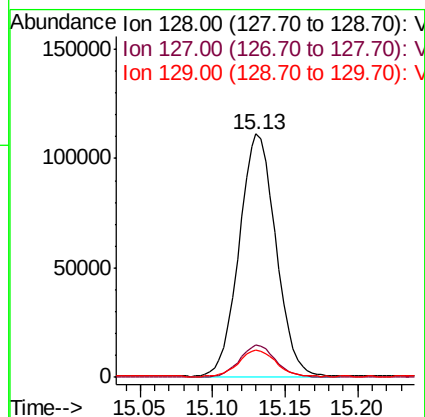
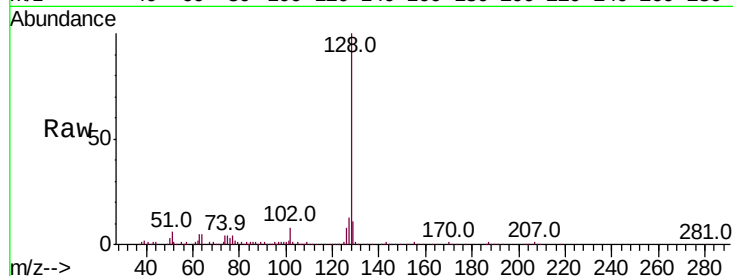
ClientSampleId :

VN0521MBSD01

Tot Ion:	128	Resp:	194563
Ion Ratio	Lower	Upper	
128	100		
127	13.5	10.2	15.4
129	10.8	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
5/22/2019 4:11:25 PM



#96

1,2,3-Trichlorobenzene

Concen: 22.842 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN055702.D

Acq: 21 May 2019 12:18

Tgt Ion:	180	Resp:	70648
Ion Ratio	Lower	Upper	
180	100		
182	95.7	47.9	143.6
145	30.5	15.4	46.1

