

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092619\
 Data File : VN058388.D
 Acq On : 26 Sep 2019 16:04
 Operator : JC/SP
 Sample : VN09216WBSD02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN09216WBSD02

Manual Integrations
 APPROVED

MMDadoda
 9/27/2019 11:19:30 AM

Quant Time: Sep 27 04:57:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091819W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 19 09:27:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	464107	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	791209	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	663700	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	299317	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	329625	50.99	ug/l	0.00
Spiked Amount						
			Recovery	=	101.98%	
35) Dibromofluoromethane	7.57	113	227123	47.22	ug/l	0.00
Spiked Amount						
			Recovery	=	94.44%	
50) Toluene-d8	10.09	98	870353	46.44	ug/l	0.00
Spiked Amount						
			Recovery	=	92.88%	
62) 4-Bromofluorobenzene	12.41	95	297410	42.72	ug/l	0.00
Spiked Amount						
			Recovery	=	85.44%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.83	85	58736	15.406	ug/l	99
3) Chloromethane	2.04	50	49195	16.038	ug/l	99
4) Vinyl Chloride	2.17	62	50453	15.067	ug/l	98
5) Bromomethane	2.50	94	9901	6.459	ug/l	95
6) Chloroethane	2.61	64	16370m	6.426	ug/l	
7) Trichlorofluoromethane	2.92	101	87188	16.754	ug/l	95
8) Diethyl Ether	3.38	74	46819	19.635	ug/l	91
9) 1,1,2-Trichlorotrifluoroet	3.70	101	72608	19.352	ug/l	98
10) Methyl Iodide	3.90	142	13587	4.322	ug/l	98
11) Tert butyl alcohol	4.89	59	50025m	65.059	ug/l	
12) 1,1-Dichloroethene	3.68	96	53580	18.594	ug/l	94
13) Acrolein	3.59	56	5949	52.207	ug/l	93
14) Allyl chloride	4.28	41	89757	14.620	ug/l	96
15) Acrylonitrile	4.97	53	211067	103.029	ug/l	100
16) Acetone	3.81	43	201834	91.986	ug/l	97
17) Carbon Disulfide	4.00	76	55877	14.137	ug/l	97
18) Methyl Acetate	4.30	43	131325	22.746	ug/l	97
19) Methyl tert-butyl Ether	5.02	73	300550	21.238	ug/l	100
20) Methylene Chloride	4.51	84	77909	20.148	ug/l	98
21) trans-1,2-Dichloroethene	5.00	96	58577	18.626	ug/l	96
22) Diisopropyl ether	5.93	45	329185	21.108	ug/l	98
23) Vinyl Acetate	5.87	43	1123907	105.320	ug/l	99
24) 1,1-Dichloroethane	5.81	63	163074	19.592	ug/l	98
25) 2-Butanone	6.82	43	283324	94.779	ug/l	99
26) 2,2-Dichloropropane	6.79	77	127061	17.994	ug/l	98
27) cis-1,2-Dichloroethene	6.80	96	89860	19.093	ug/l	99
28) Bromochloromethane	7.18	49	75992	19.299	ug/l	98
29) Tetrahydrofuran	7.20	42	181343	98.485	ug/l	99
30) Chloroform	7.35	83	171193	19.107	ug/l	97
31) Cyclohexane	7.63	56	106345	18.231	ug/l	98
32) 1,1,1-Trichloroethane	7.55	97	128480	18.837	ug/l	100
36) 1,1-Dichloropropene	7.77	75	96599	16.930	ug/l	98
37) Ethyl Acetate	6.91	43	131196	22.156	ug/l	99
38) Carbon Tetrachloride	7.75	117	96908	16.896	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092619\
 Data File : VN058388.D
 Acq On : 26 Sep 2019 16:04
 Operator : JC/SP
 Sample : VN09216WBSD02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN09216WBSD02

Manual Integrations
 APPROVED

MMDadoda
 9/27/2019 11:19:30 AM

Quant Time: Sep 27 04:57:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091819W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 19 09:27:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	97951	17.801	ug/l	96
40) Benzene	8.02	78	324913	18.644	ug/l	99
41) Methacrylonitrile	7.16	41	51025	17.704	ug/l #	100
42) 1,2-Dichloroethane	8.11	62	141476	19.347	ug/l	99
43) Isopropyl Acetate	8.16	43	264658	23.932	ug/l #	86
44) Trichloroethene	8.82	130	76692	17.983	ug/l	100
45) 1,2-Dichloropropane	9.11	63	103444	19.876	ug/l	95
46) Dibromomethane	9.20	93	59214	18.713	ug/l	98
47) Bromodichloromethane	9.39	83	119585	18.040	ug/l	99
48) Methyl methacrylate	9.19	41	96602	19.239	ug/l	99
49) 1,4-Dioxane	9.21	88	13833	167.799	ug/l	89
51) 4-Methyl-2-Pentanone	9.99	43	624043	106.239	ug/l	99
52) Toluene	10.15	92	195526	17.902	ug/l	97
53) t-1,3-Dichloropropene	10.38	75	124650	18.357	ug/l	100
54) cis-1,3-Dichloropropene	9.83	75	135164	18.029	ug/l	97
55) 1,1,2-Trichloroethane	10.56	97	95330	19.668	ug/l	98
56) Ethyl methacrylate	10.43	69	132560	18.955	ug/l	98
57) 1,3-Dichloropropane	10.71	76	161084	19.332	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	382712	114.892	ug/l	99
59) 2-Hexanone	10.76	43	443712	101.710	ug/l	97
60) Dibromochloromethane	10.90	129	78789	16.897	ug/l	98
61) 1,2-Dibromoethane	11.00	107	83331	18.552	ug/l	98
64) Tetrachloroethene	10.63	164	61284	18.942	ug/l	98
65) Chlorobenzene	11.44	112	223631	19.156	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	82138	19.404	ug/l	100
67) Ethyl Benzene	11.51	91	399182	19.956	ug/l	98
68) m/p-Xylenes	11.63	106	284055	37.704	ug/l	97
69) o-Xylene	11.95	106	143713	19.400	ug/l	99
70) Styrene	11.97	104	244963	19.192	ug/l	98
71) Bromoform	12.13	173	44987	16.899	ug/l #	98
73) Isopropylbenzene	12.25	105	409876	21.877	ug/l	100
74) N-amyl acetate	12.08	43	179603	22.915	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.51	83	139745	22.274	ug/l	99
76) 1,2,3-Trichloropropane	12.56	75	121636m	22.707	ug/l	
77) Bromobenzene	12.53	156	93864	19.917	ug/l	96
78) n-propylbenzene	12.60	91	465576	21.868	ug/l	99
79) 2-Chlorotoluene	12.68	91	282980	21.268	ug/l	99
80) 1,3,5-Trimethylbenzene	12.74	105	339498	21.429	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.31	75	27527	19.306	ug/l	88
82) 4-Chlorotoluene	12.78	91	286472	20.482	ug/l	100
83) tert-Butylbenzene	13.00	119	306442	21.690	ug/l	99
84) 1,2,4-Trimethylbenzene	13.05	105	346323	21.966	ug/l	99
85) sec-Butylbenzene	13.18	105	401406	21.727	ug/l	100
86) p-Isopropyltoluene	13.30	119	357596	21.772	ug/l	99
87) 1,3-Dichlorobenzene	13.29	146	175415	20.379	ug/l	100
88) 1,4-Dichlorobenzene	13.37	146	178120	20.269	ug/l	98
89) n-Butylbenzene	13.62	91	325749	20.919	ug/l	99
90) Hexachloroethane	13.89	117	49532	19.049	ug/l	99
91) 1,2-Dichlorobenzene	13.66	146	181772	21.052	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.28	75	23807	21.077	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092619\
Data File : VN058388.D
Acq On : 26 Sep 2019 16:04
Operator : JC/SP
Sample : VN09216WBSD02
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN09216WBSD02

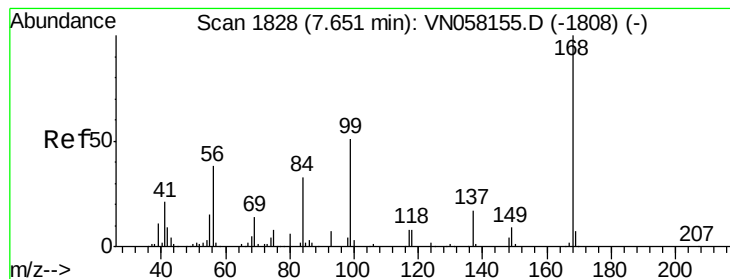
Manual Integrations
APPROVED

MMDadoda
9/27/2019 11:19:30 AM

Quant Time: Sep 27 04:57:43 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091819W.M
Quant Title : SW846 8260
QLast Update : Thu Sep 19 09:27:53 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.92	180	114937	20.834	ug/l	99
94) Hexachlorobutadiene	15.02	225	53546	20.081	ug/l	97
95) Naphthalene	15.14	128	354972	24.828	ug/l	100
96) 1,2,3-Trichlorobenzene	15.30	180	109717	21.041	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.01 min

Lab File: VN058388.D

Acq: 26 Sep 2019 16:04

Instrument :

MSVOA_N

ClientSampleId :

VN09216WBSD02

Tot Ion:168 Resp: 464107

Ion Ratio Lower Upper

168 100

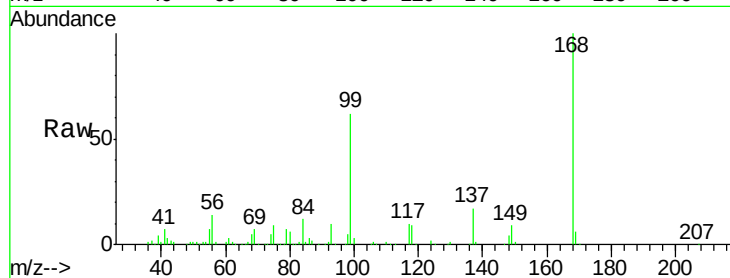
99 61.4 47.4 71.2

Manual Integrations

APPROVED

MMDadoda

9/27/2019 11:19:30 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.64

200000

150000

100000

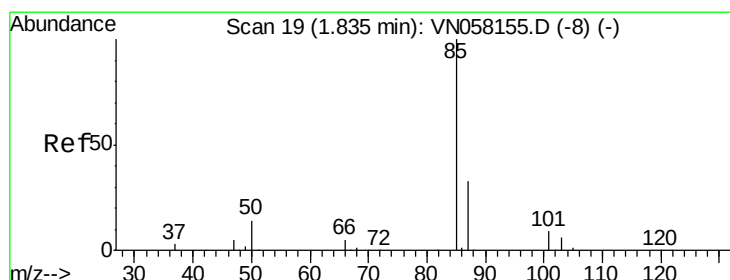
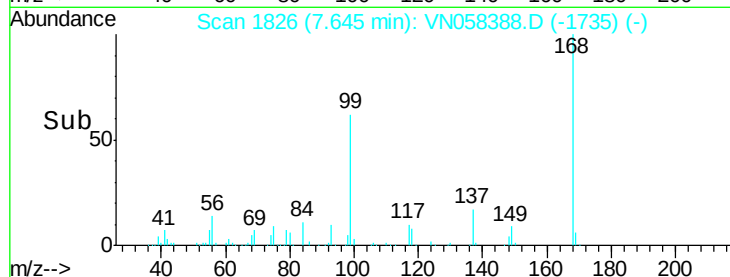
50000

0

7.60

7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 15.406 ug/l

RT: 1.83 min Scan# 19

Delta R.T. 0.00 min

Lab File: VN058388.D

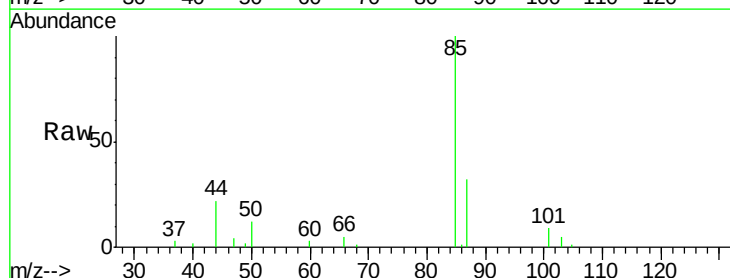
Acq: 26 Sep 2019 16:04

Tgt Ion: 85 Resp: 58736

Ion Ratio Lower Upper

85 100

87 31.9 16.3 48.9



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.83

30000

25000

20000

15000

10000

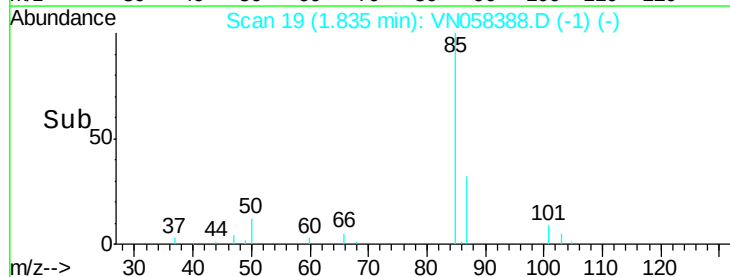
5000

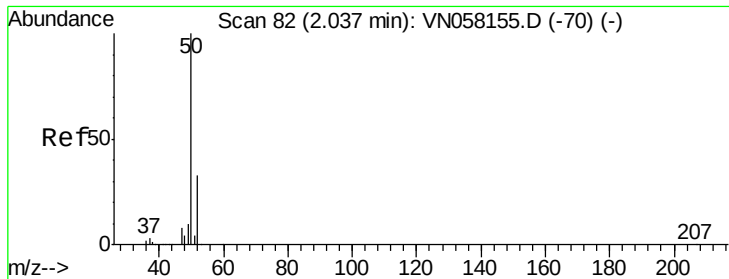
0

1.80

1.90

Time-->





#3

Chloromethane

Concen: 16.038 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN058388.D

Acq: 26 Sep 2019 16:04

Instrument :

MSVOA_N

ClientSampleId :

VN09216WBSD02

Tot Ion: 50 Resp: 49195

Ion Ratio Lower Upper

50 100

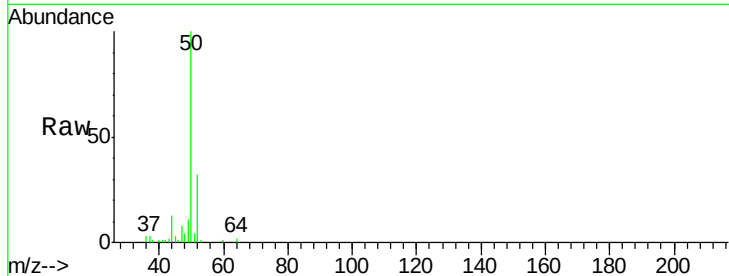
52 32.5 26.3 39.5

Manual Integrations

APPROVED

MMDadoda

9/27/2019 11:19:30 AM



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.04

30000

25000

20000

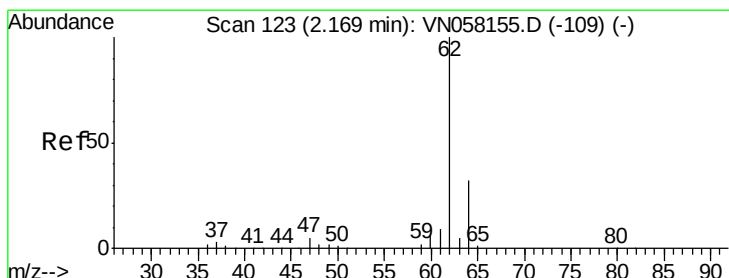
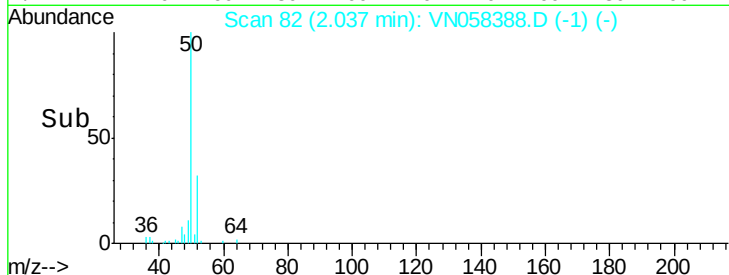
15000

10000

5000

0

Time--> 1.95 2.00 2.05 2.10



#4

Vinyl Chloride

Concen: 15.067 ug/l

RT: 2.17 min Scan# 124

Delta R.T. 0.00 min

Lab File: VN058388.D

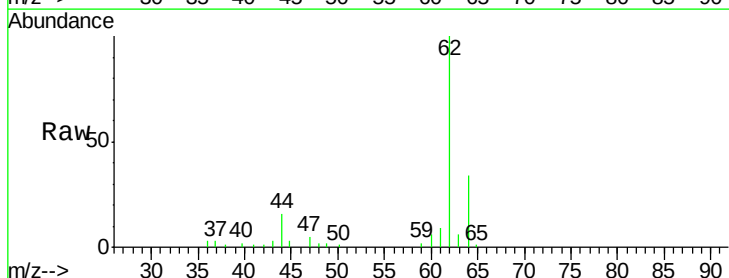
Acq: 26 Sep 2019 16:04

Tgt Ion: 62 Resp: 50453

Ion Ratio Lower Upper

62 100

64 33.0 25.4 38.2



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0

2.17

20000

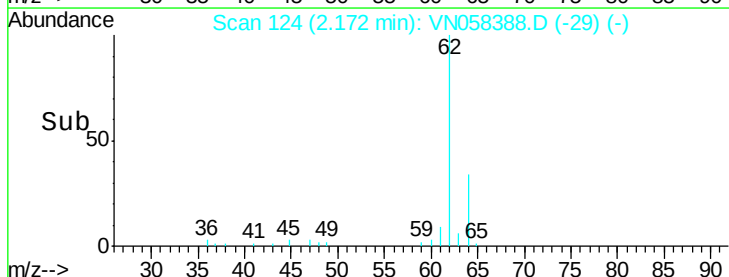
15000

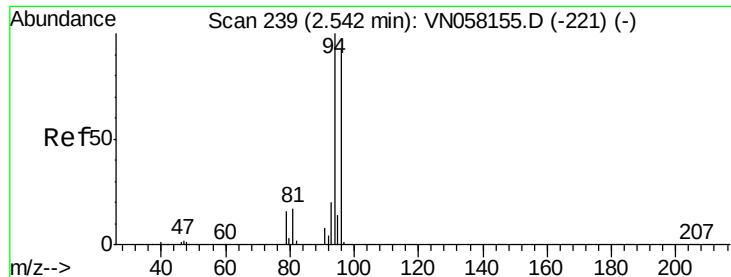
10000

5000

0

Time--> 2.10 2.20 2.30





#5

Bromomethane

Concen: 6.459 ug/l

RT: 2.50 min Scan# 226

Delta R.T. -0.04 min

Lab File: VN058388.D

Acq: 26 Sep 2019 16:04

Instrument :

MSVOA_N

ClientSampleId :

VN09216WBSD02

Tot Ion: 94 Resp: 9901

Ion Ratio Lower Upper

94 100

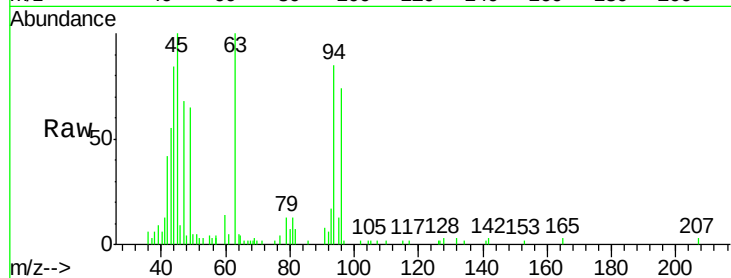
96 86.5 73.3 109.9

Manual Integrations

APPROVED

MMDadoda

9/27/2019 11:19:30 AM



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.50

6000

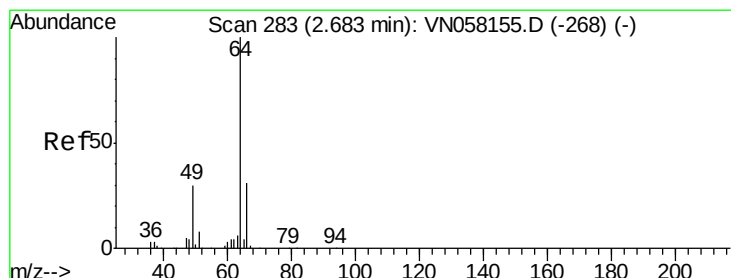
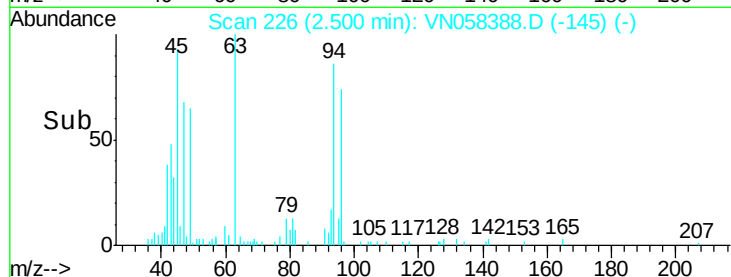
4000

2000

0

2.45 2.50 2.55

Time-->



#6

Chloroethane

Concen: 6.426 ug/l m

RT: 2.61 min Scan# 259

Delta R.T. -0.08 min

Lab File: VN058388.D

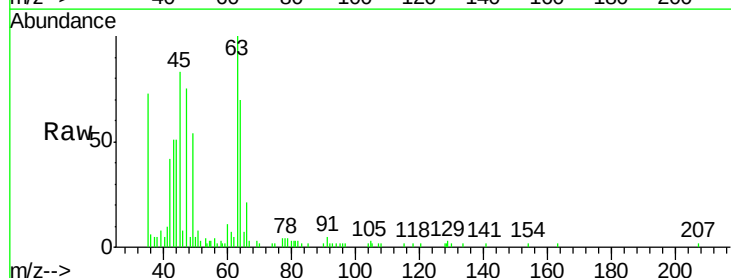
Acq: 26 Sep 2019 16:04

Tgt Ion: 64 Resp: 16370

Ion Ratio Lower Upper

64 100

66 30.7 24.6 37.0



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

2.61

6000

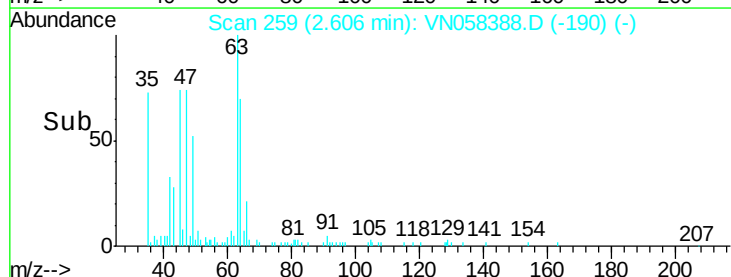
4000

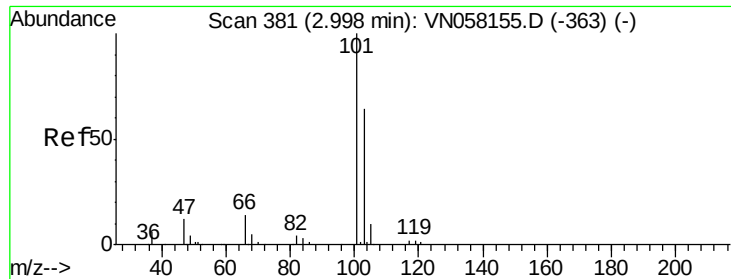
2000

0

2.55 2.60 2.65 2.70

Time-->





#7

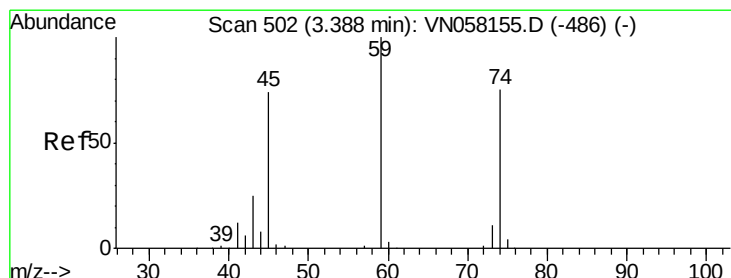
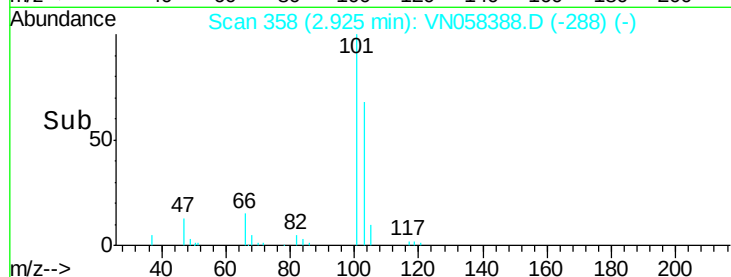
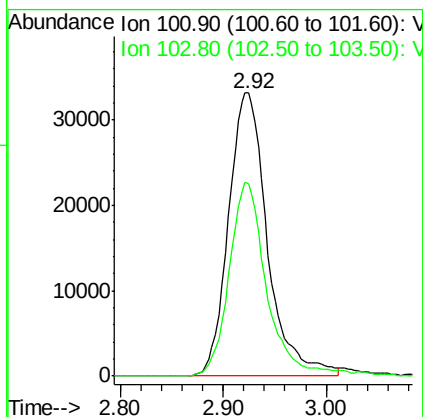
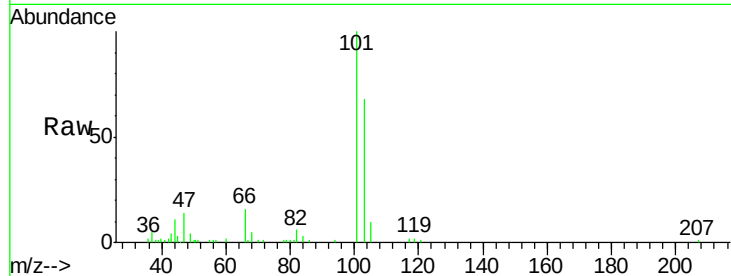
Trichlorofluoromethane
 Concen: 16.754 ug/l
 RT: 2.92 min Scan# 358
 Delta R.T. -0.07 min
 Lab File: VN058388.D
 Acq: 26 Sep 2019 16:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VN09216WBSD02

Tot Ion	Ratio	Lower	Upper
101	100		
103	68.0	51.0	76.6

Manual Integrations
 APPROVED

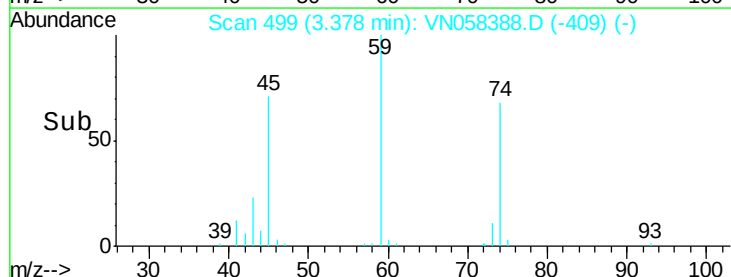
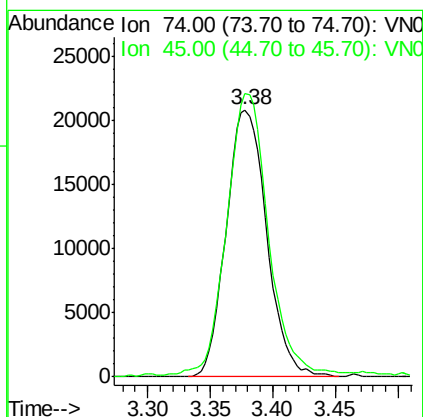
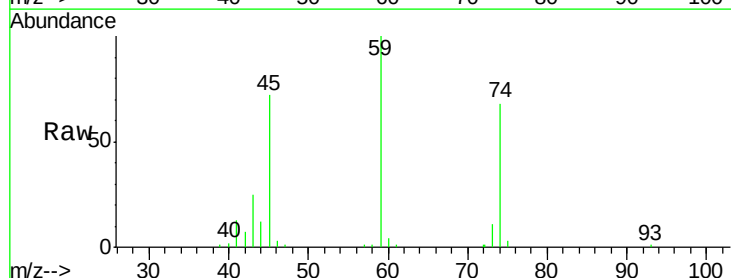
MMDadoda
 9/27/2019 11:19:30 AM

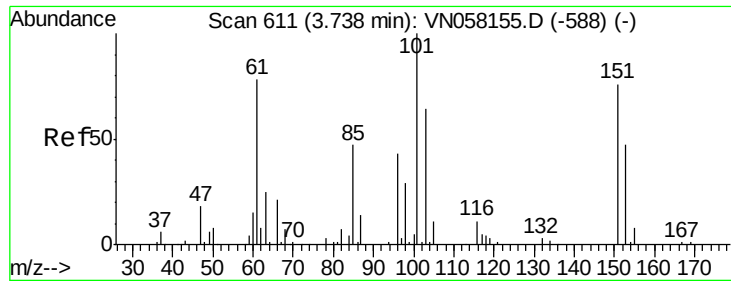


#8

Diethyl Ether
 Concen: 19.635 ug/l
 RT: 3.38 min Scan# 499
 Delta R.T. -0.01 min
 Lab File: VN058388.D
 Acq: 26 Sep 2019 16:04

Tgt Ion	Ratio	Lower	Upper
74	100		
45	105.8	48.5	145.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.352 ug/l

RT: 3.70 min Scan# 598

Delta R.T. -0.04 min

Lab File: VN058388.D

Acq: 26 Sep 2019 16:04

Instrument :

MSVOA_N

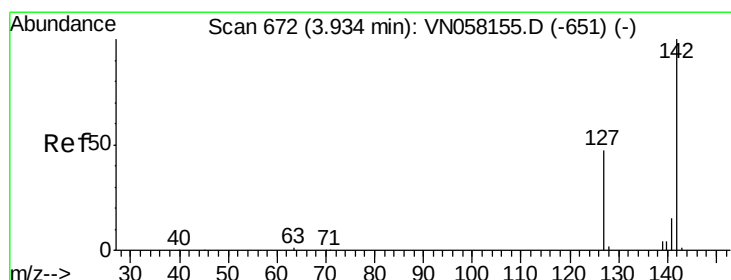
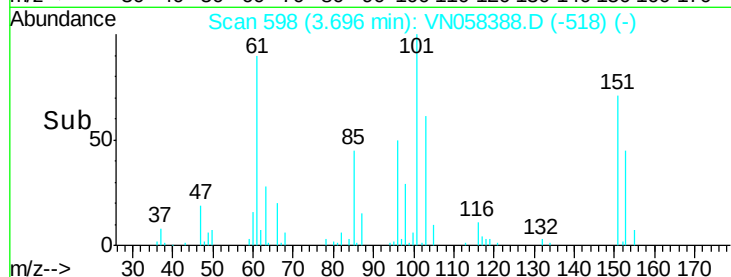
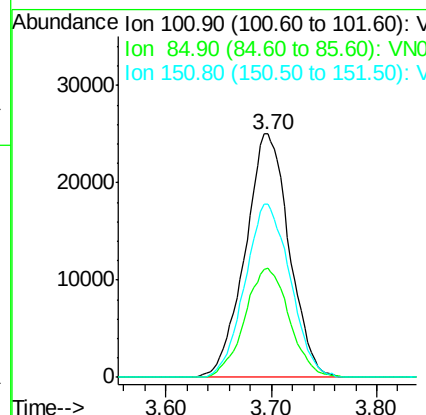
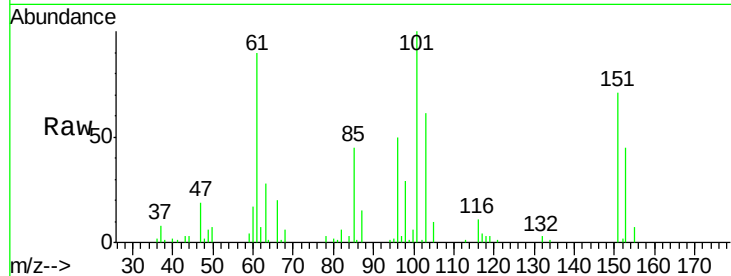
ClientSampleId :

VN09216WBSD02

Tot Ion:	101	Resp:	72608
Ion Ratio	Lower	Upper	
101	100		
85	45.3	37.3	55.9
151	73.0	59.6	89.4

Manual Integrations
APPROVED

MMDadoda
9/27/2019 11:19:30 AM



#10

Methyl Iodide

Concen: 4.322 ug/l

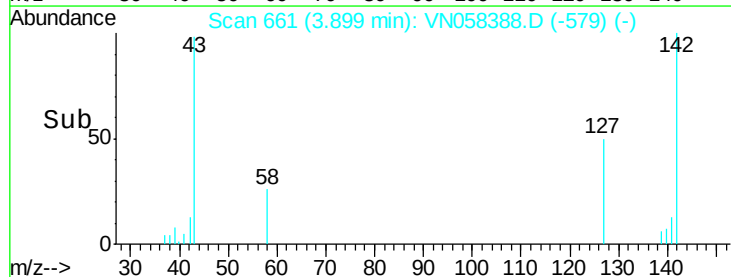
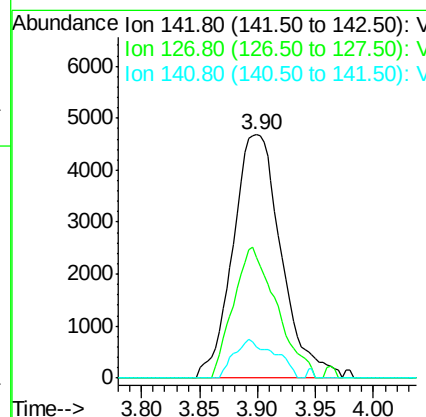
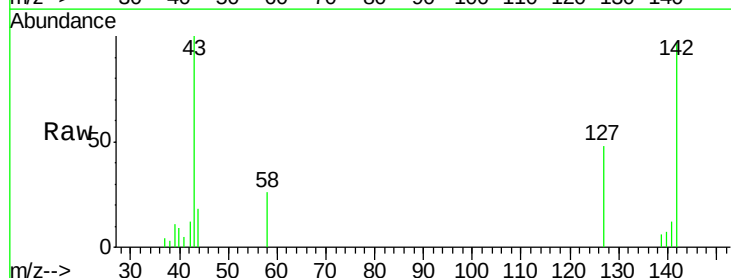
RT: 3.90 min Scan# 661

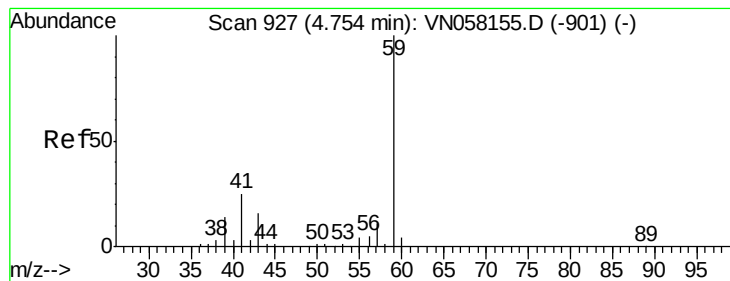
Delta R.T. -0.04 min

Lab File: VN058388.D

Acq: 26 Sep 2019 16:04

Tgt Ion:	142	Resp:	13587
Ion Ratio	Lower	Upper	
142	100		
127	48.1	37.5	56.3
141	13.3	11.4	17.2





#11

Tert butyl alcohol

Concen: 65.059 ug/l m

RT: 4.89 min Scan# 969

Delta R.T. 0.14 min

Lab File: VN058388.D

Acq: 26 Sep 2019 16:04

Instrument :

MSVOA_N

ClientSampleId :

VN09216WBSD02

Tot Ion: 59 Resp: 50025

Ion Ratio Lower Upper

59 100

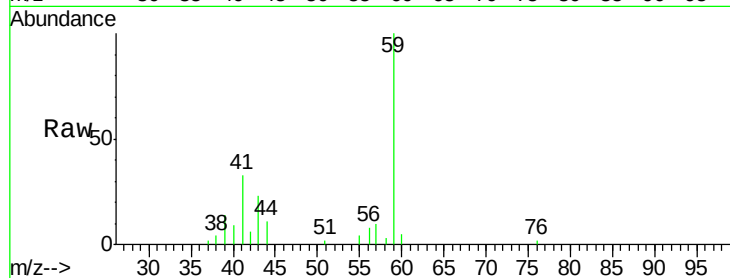
57 0.0 8.6 13.0#

Manual Integrations

APPROVED

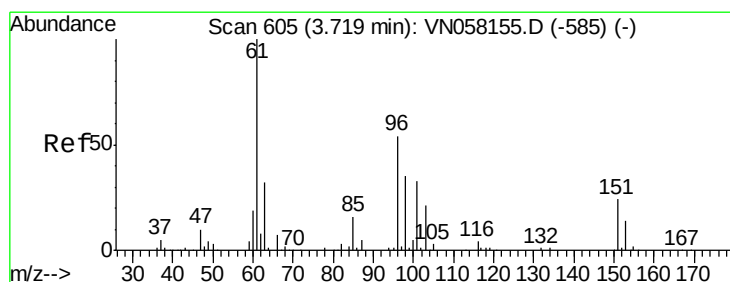
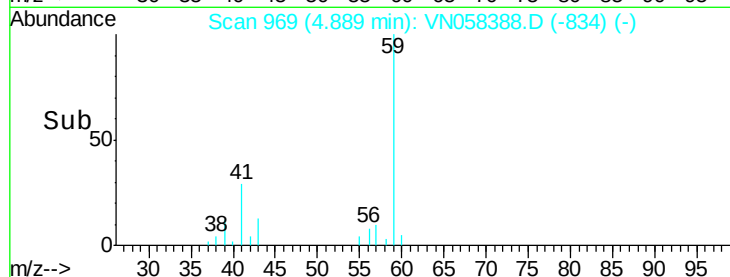
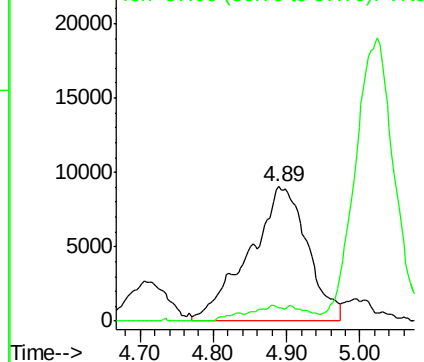
MMDadoda

9/27/2019 11:19:30 AM



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0



#12

1,1-Dichloroethene

Concen: 18.594 ug/l

RT: 3.68 min Scan# 594

Delta R.T. -0.03 min

Lab File: VN058388.D

Acq: 26 Sep 2019 16:04

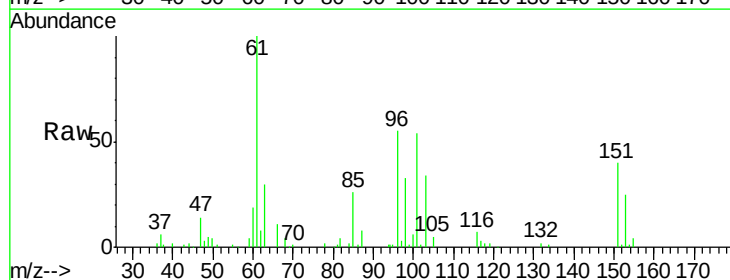
Tgt Ion: 96 Resp: 53580

Ion Ratio Lower Upper

96 100

61 179.3 149.5 224.3

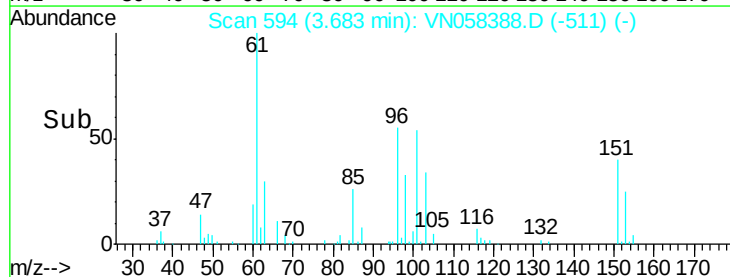
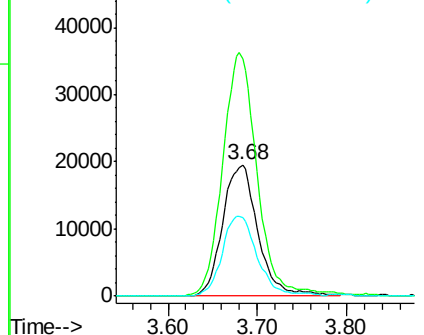
98 59.6 52.4 78.6

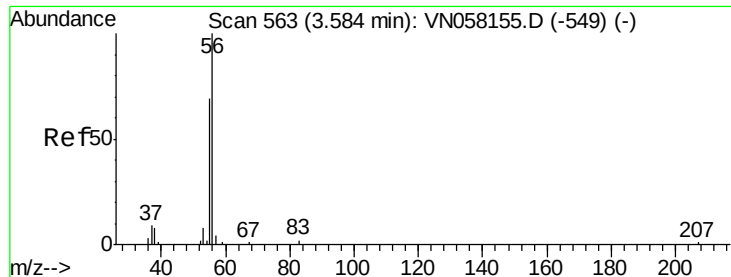


Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0





#13

Acrolein

Concen: 52.207 ug/l

RT: 3.59 min Scan# 566

Delta R.T. 0.01 min

Lab File: VN058388.D

Acq: 26 Sep 2019 16:04

Instrument :

MSVOA_N

ClientSampleId :

VN09216WBSD02

Tot Ion: 56 Resp: 5949

Ion Ratio Lower Upper

56 100

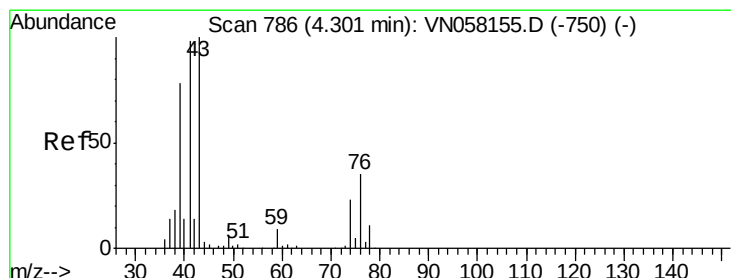
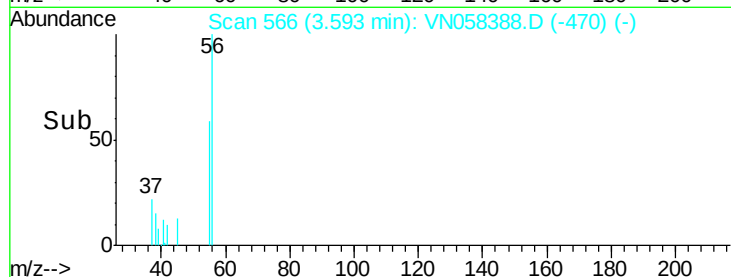
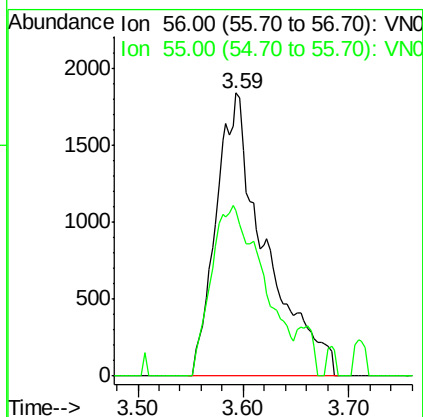
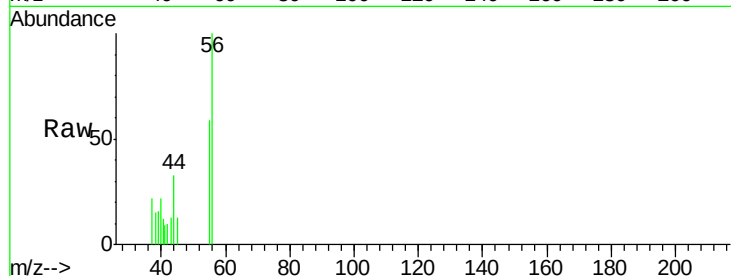
55 64.0 56.1 84.1

Manual Integrations

APPROVED

MMDadoda

9/27/2019 11:19:30 AM



#14

Allyl chloride

Concen: 14.620 ug/l

RT: 4.28 min Scan# 780

Delta R.T. -0.02 min

Lab File: VN058388.D

Acq: 26 Sep 2019 16:04

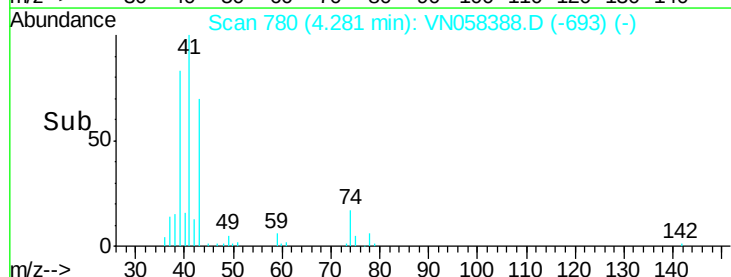
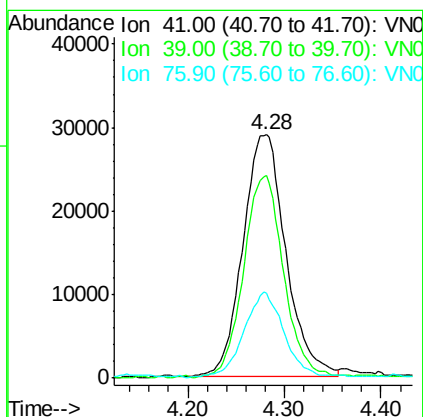
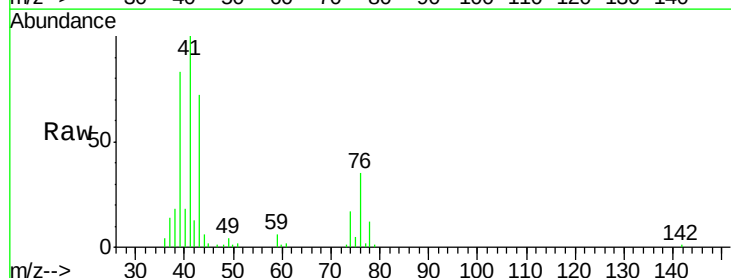
Tgt Ion: 41 Resp: 89757

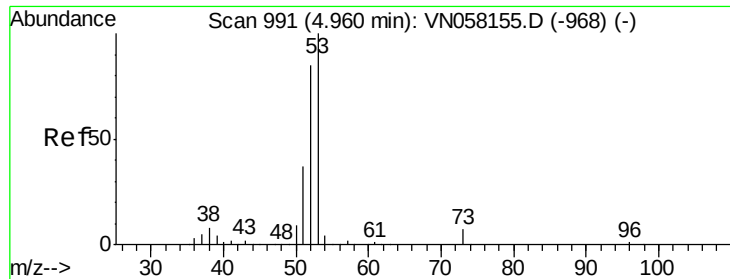
Ion Ratio Lower Upper

41 100

39 77.9 59.1 88.7

76 33.5 25.1 37.7





#15

Acrylonitrile

Concen: 103.029 ug/l

RT: 4.97 min Scan# 995

Delta R.T. 0.01 min

Lab File: VN058388.D

Acq: 26 Sep 2019 16:04

Instrument :

MSVOA_N

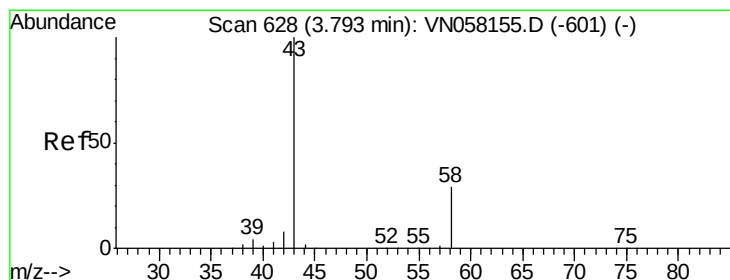
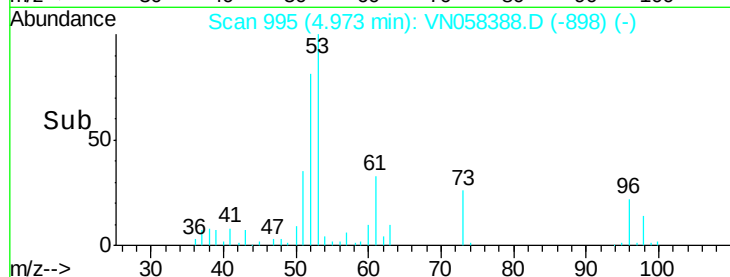
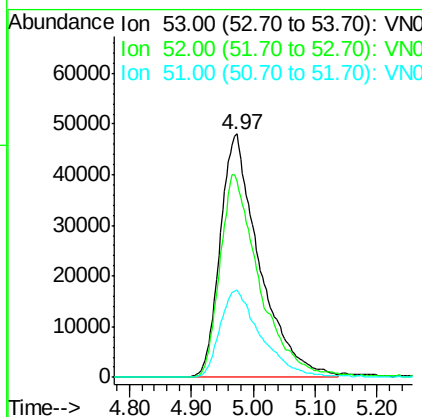
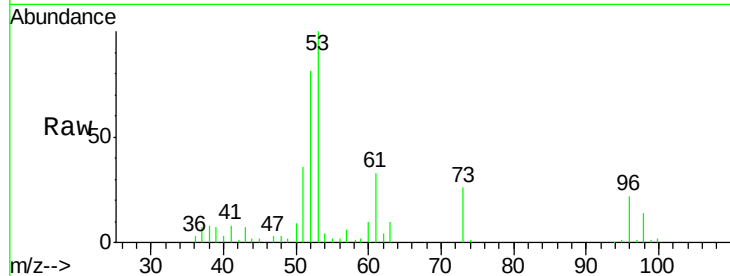
ClientSampleId :

VN09216WBSD02

Tot Ion:	53	Resp:	211067
Ion Ratio		Lower	Upper
53	100		
52	83.5	66.6	100.0
51	37.6	29.7	44.5

Manual Integrations
APPROVED

MMDadoda
9/27/2019 11:19:30 AM



#16

Acetone

Concen: 91.986 ug/l

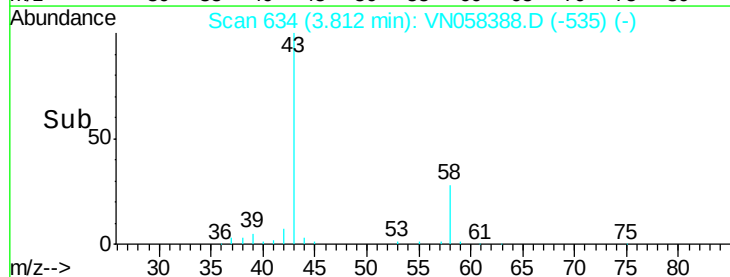
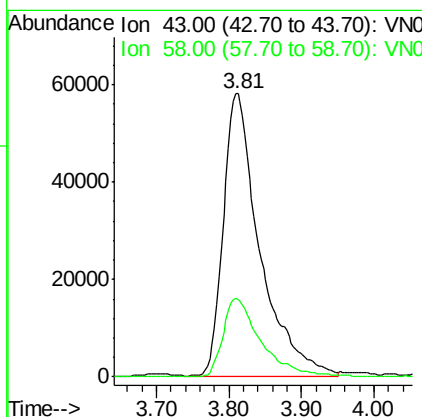
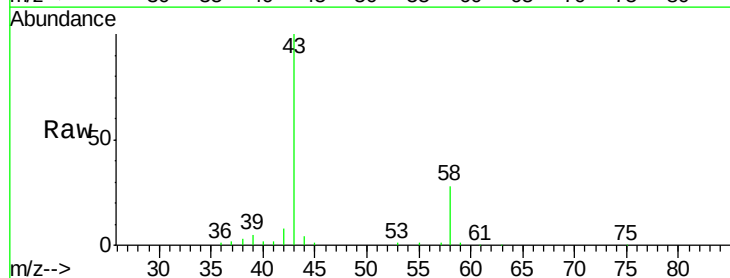
RT: 3.81 min Scan# 634

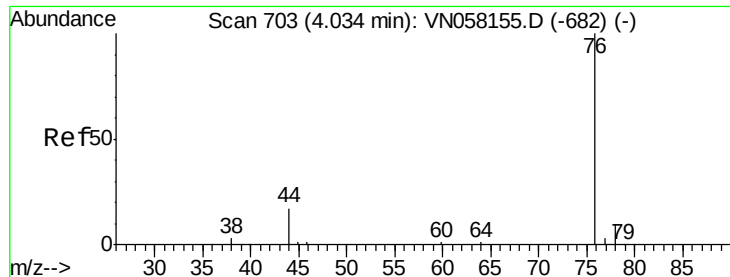
Delta R.T. 0.02 min

Lab File: VN058388.D

Acq: 26 Sep 2019 16:04

Tgt Ion:	43	Resp:	201834
Ion Ratio		Lower	Upper
43	100		
58	27.6	23.4	35.2





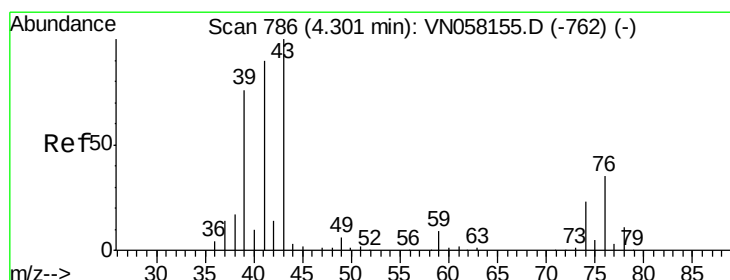
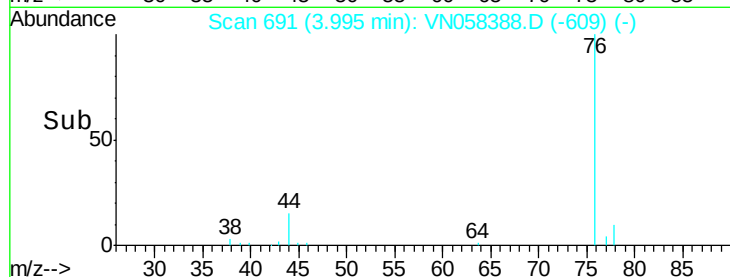
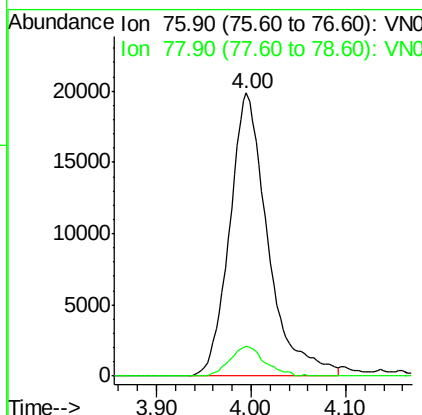
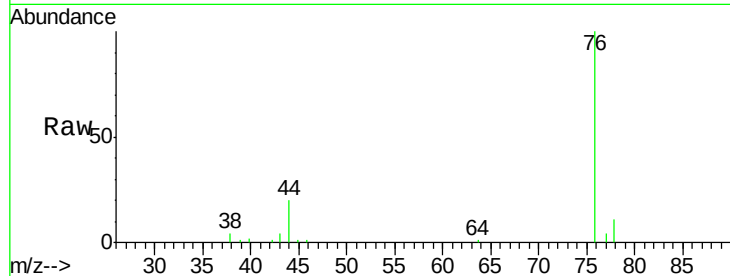
#17
Carbon Disulfide
Concen: 14.137 ug/l
RT: 4.00 min Scan# 691
Delta R.T. -0.04 min
Lab File: VN058388.D
Acq: 26 Sep 2019 16:04

Instrument :
MSVOA_N
ClientSampleId :
VN09216WBSD02

Tot Ion: 76 Resp: 55877
Ion Ratio Lower Upper
76 100
78 10.7 7.7 11.5

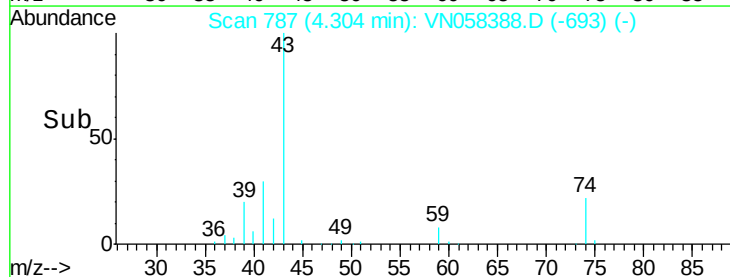
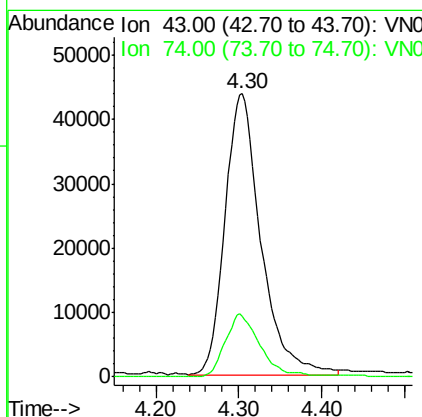
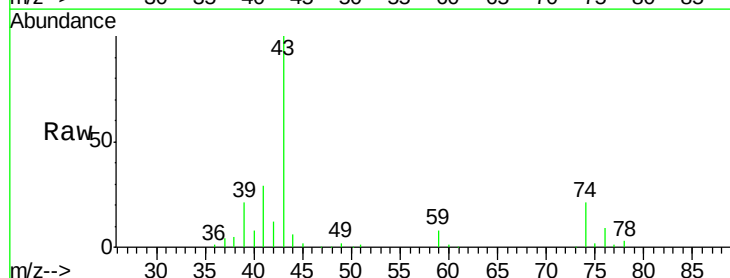
Manual Integrations
APPROVED

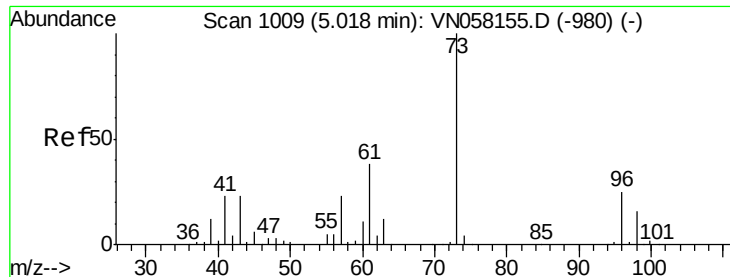
MMDadoda
9/27/2019 11:19:30 AM



#18
Methyl Acetate
Concen: 22.746 ug/l
RT: 4.30 min Scan# 787
Delta R.T. 0.00 min
Lab File: VN058388.D
Acq: 26 Sep 2019 16:04

Tgt Ion: 43 Resp: 131325
Ion Ratio Lower Upper
43 100
74 21.1 18.0 27.0





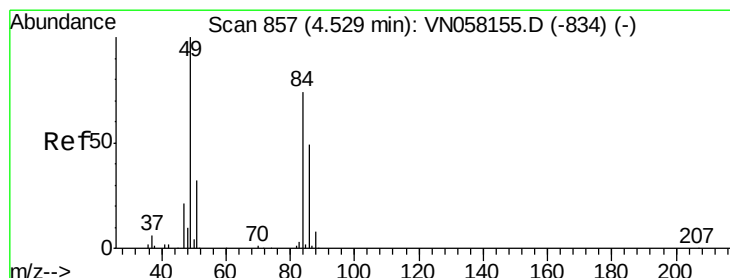
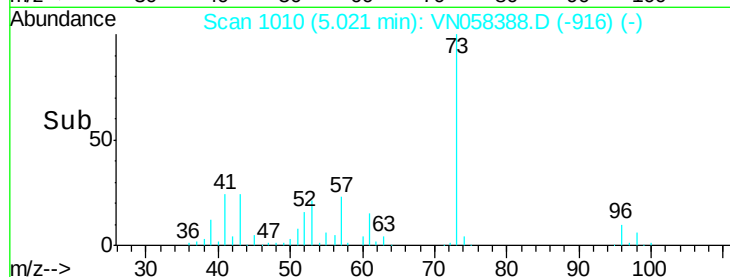
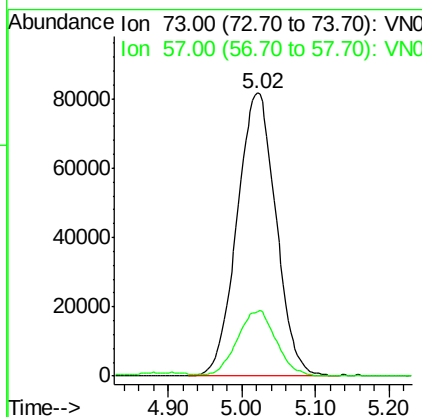
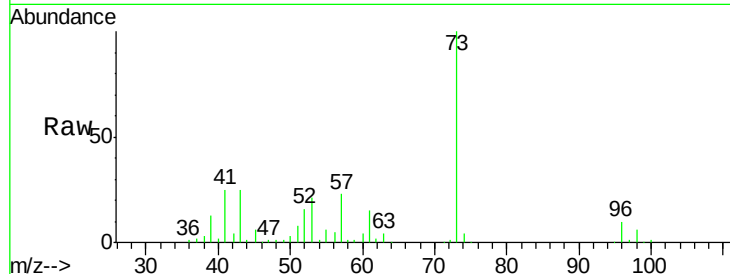
#19
Methyl tert-butyl Ether
Concen: 21.238 ug/l
RT: 5.02 min Scan# 1010
Delta R.T. 0.00 min
Lab File: VN058388.D
Acq: 26 Sep 2019 16:04

Instrument :
MSVOA_N
ClientSampleId :
VN09216WBSD02

Tot Ion: 73 Resp: 300550
Ion Ratio Lower Upper
73 100
57 22.6 18.1 27.1

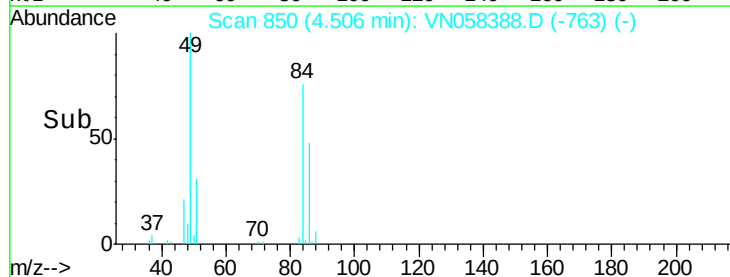
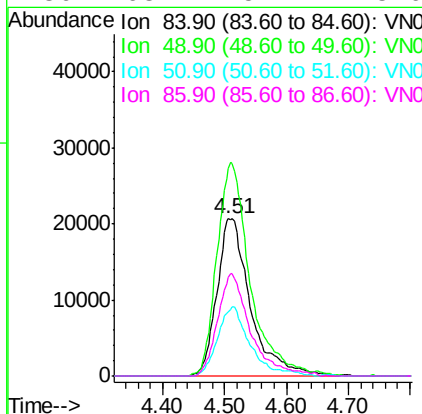
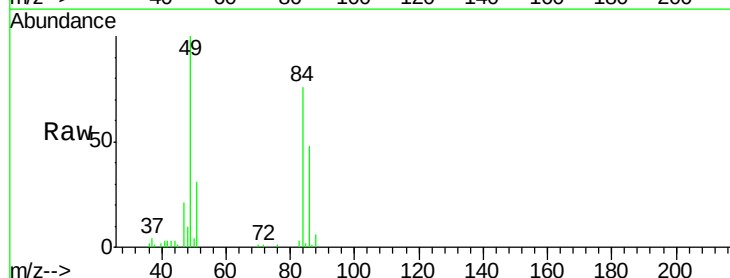
Manual Integrations
APPROVED

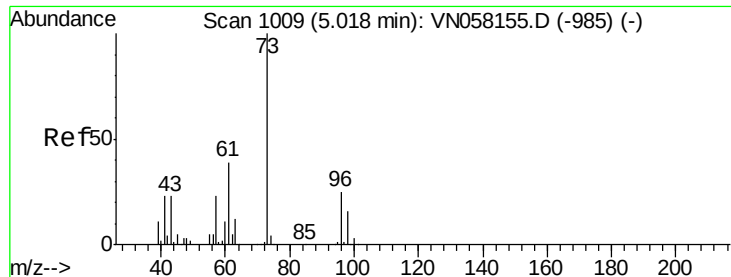
MMDadoda
9/27/2019 11:19:30 AM



#20
Methylene Chloride
Concen: 20.148 ug/l
RT: 4.51 min Scan# 850
Delta R.T. -0.02 min
Lab File: VN058388.D
Acq: 26 Sep 2019 16:04

Tgt Ion: 84 Resp: 77909
Ion Ratio Lower Upper
84 100
49 132.3 107.5 161.3
51 41.0 33.9 50.9
86 63.1 52.4 78.6





#21

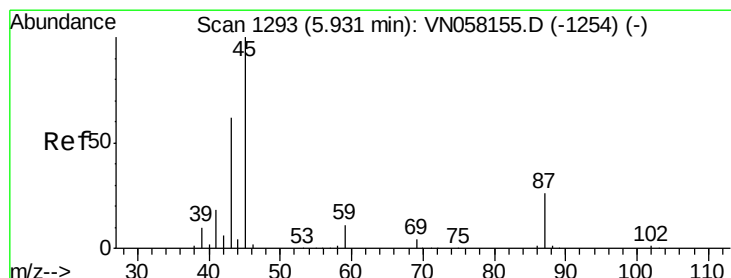
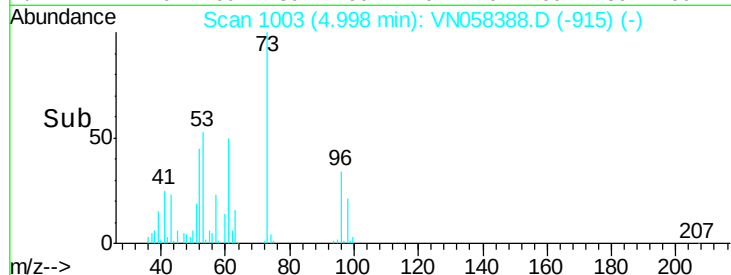
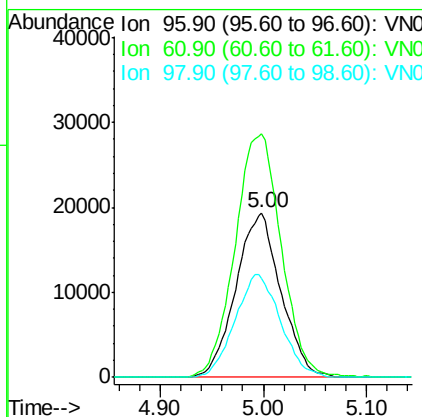
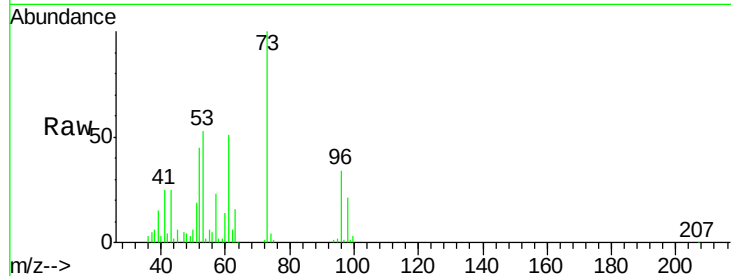
trans-1,2-Dichloroethene
Concen: 18.626 ug/l
RT: 5.00 min Scan# 1003
Delta R.T. -0.02 min
Lab File: VN058388.D
Acq: 26 Sep 2019 16:04

Instrument :
MSVOA_N
ClientSampleId :
VN09216WBSD02

Tot Ion	Ion	Ratio	Resp	Lower	Upper
96	100		58577		
61	147.7	122.2	183.4		
98	59.8	49.9	74.9		

Manual Integrations
APPROVED

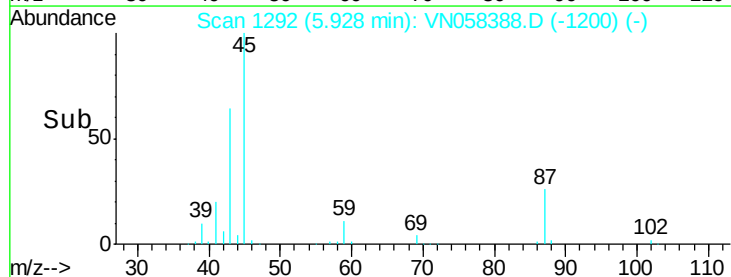
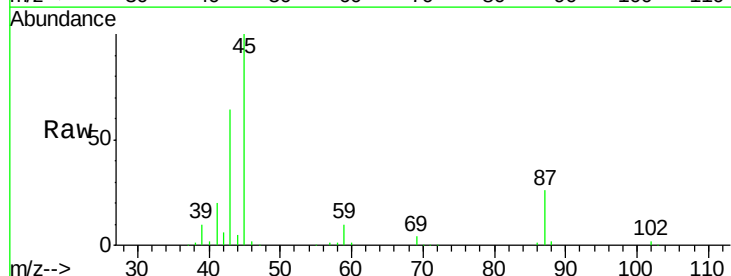
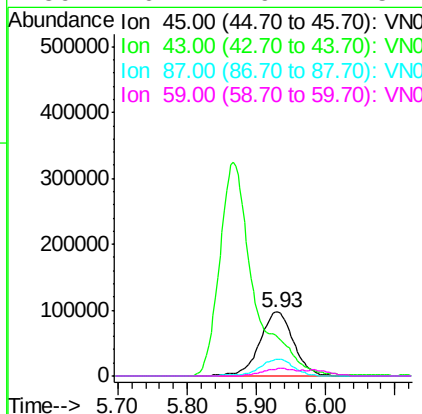
MMDadoda
9/27/2019 11:19:30 AM

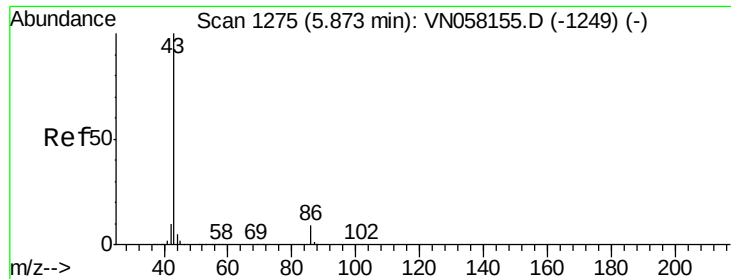


#22

Diisopropyl ether
Concen: 21.108 ug/l
RT: 5.93 min Scan# 1292
Delta R.T. -0.00 min
Lab File: VN058388.D
Acq: 26 Sep 2019 16:04

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
45	100		329185		
43	63.9	49.7	74.5		
87	25.3	20.7	31.1		
59	10.2	9.1	13.7		





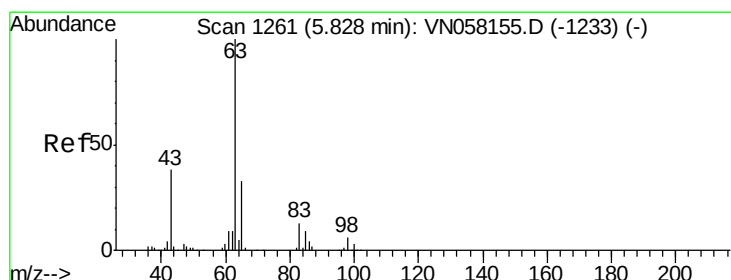
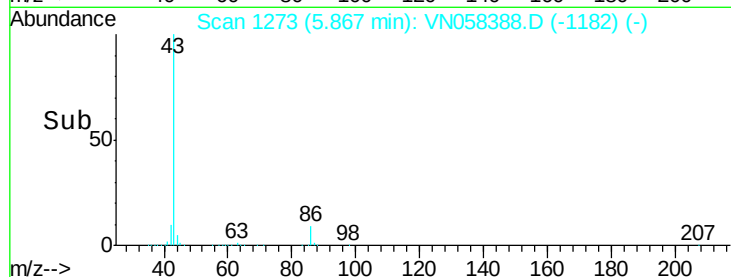
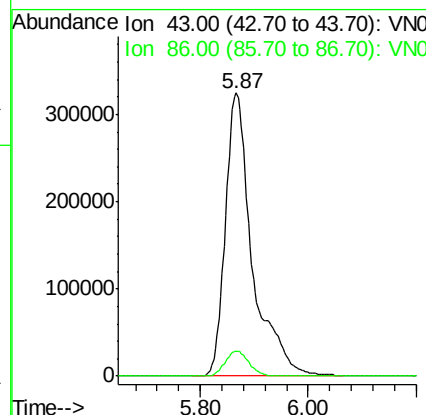
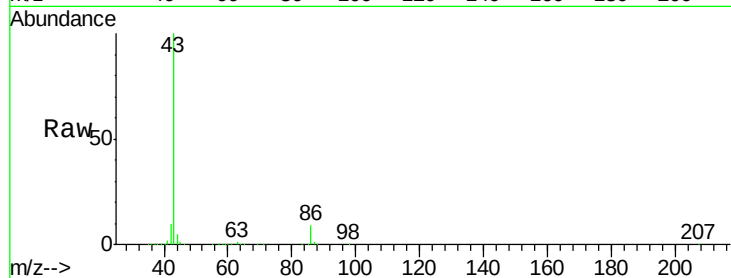
#23
 Vinyl Acetate
 Concen: 105.320 ug/l
 RT: 5.87 min Scan# 1273
 Delta R.T. -0.01 min
 Lab File: VN058388.D
 Acq: 26 Sep 2019 16:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VN09216WBSD02

Tot Ion: 43 Resp: 1123907
 Ion Ratio Lower Upper
 43 100
 86 8.9 7.4 11.2

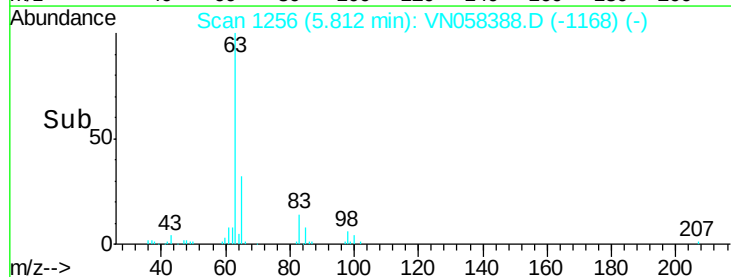
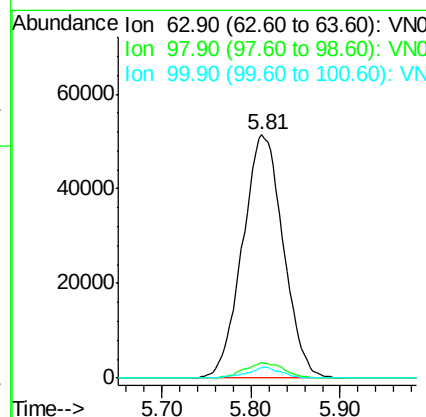
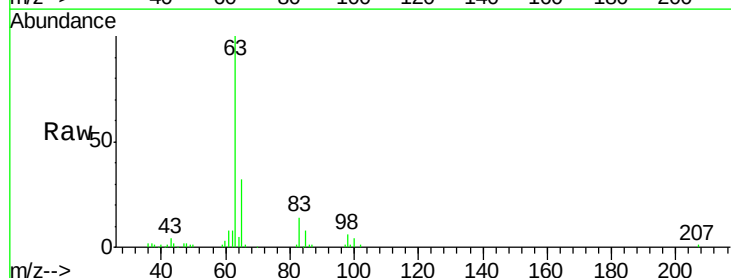
Manual Integrations
 APPROVED

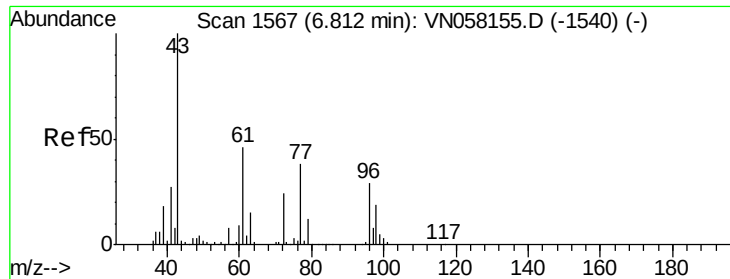
MMDadoda
 9/27/2019 11:19:30 AM



#24
 1,1-Dichloroethane
 Concen: 19.592 ug/l
 RT: 5.81 min Scan# 1256
 Delta R.T. -0.02 min
 Lab File: VN058388.D
 Acq: 26 Sep 2019 16:04

Tgt Ion: 63 Resp: 163074
 Ion Ratio Lower Upper
 63 100
 98 6.4 2.9 8.6
 100 4.2 1.8 5.3





#25

2-Butanone

Concen: 94.779 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. 0.01 min

Lab File: VN058388.D

Acq: 26 Sep 2019 16:04

Instrument :

MSVOA_N

ClientSampleId :

VN09216WBSD02

Tot Ion: 43 Resp: 283324

Ion Ratio Lower Upper

43 100

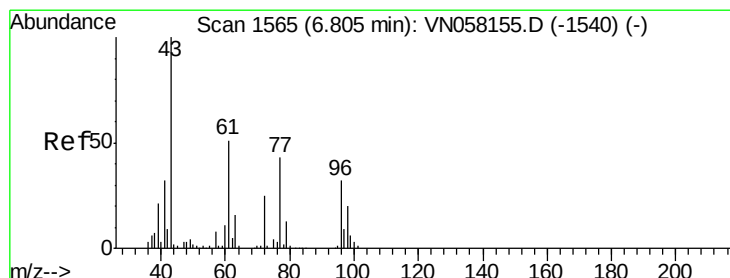
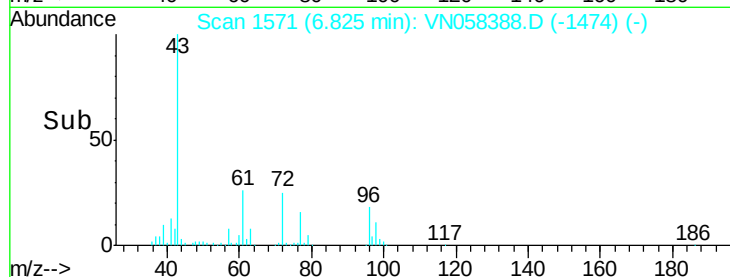
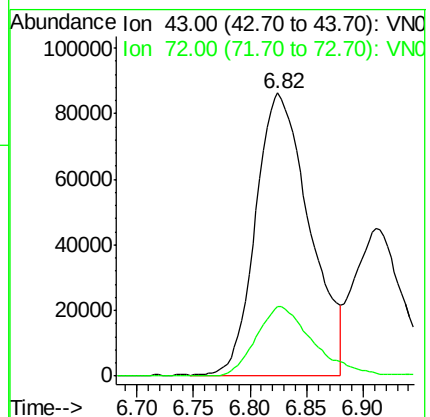
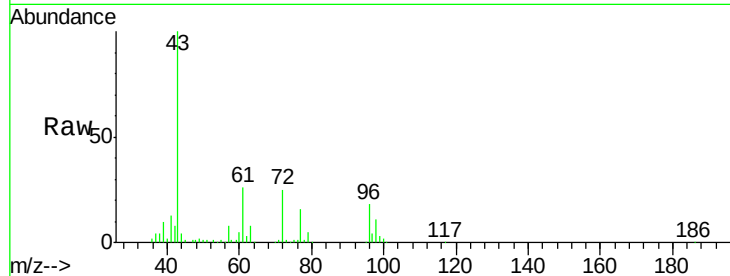
72 24.9 19.5 29.3

Manual Integrations

APPROVED

MMDadoda

9/27/2019 11:19:30 AM



#26

2,2-Dichloropropane

Concen: 17.994 ug/l

RT: 6.79 min Scan# 1561

Delta R.T. -0.01 min

Lab File: VN058388.D

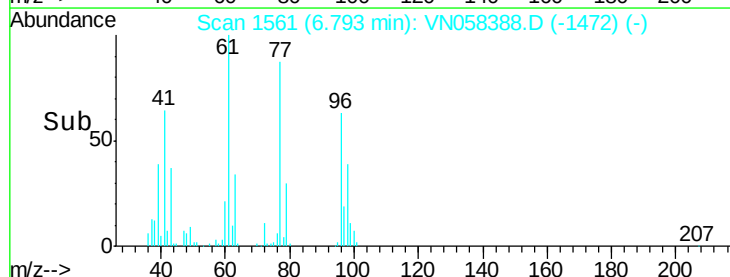
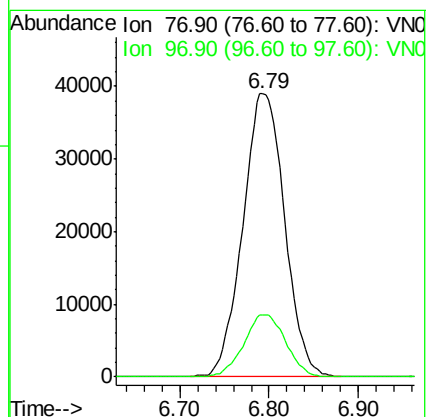
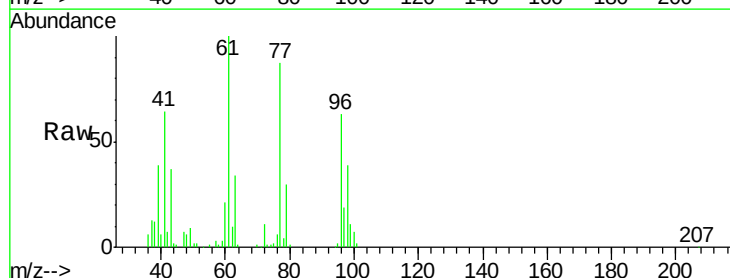
Acq: 26 Sep 2019 16:04

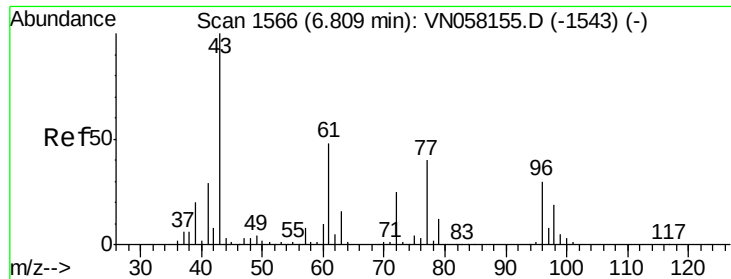
Tgt Ion: 77 Resp: 127061

Ion Ratio Lower Upper

77 100

97 22.0 10.5 31.6





#27

cis-1,2-Dichloroethene

Concen: 19.093 ug/l

RT: 6.80 min Scan# 1563

Delta R.T. -0.01 min

Lab File: VN058388.D

Acq: 26 Sep 2019 16:04

Instrument :

MSVOA_N

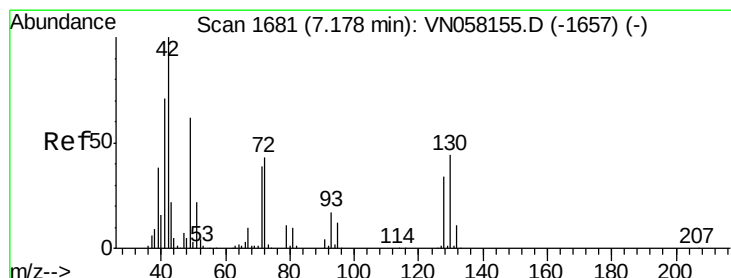
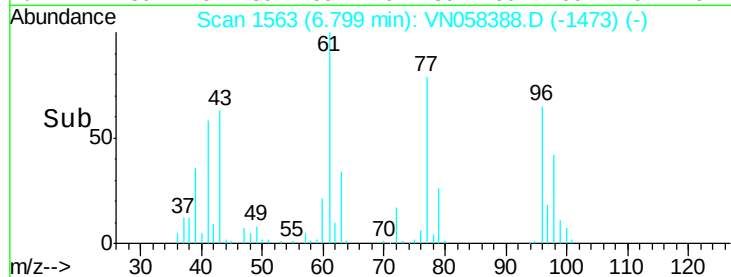
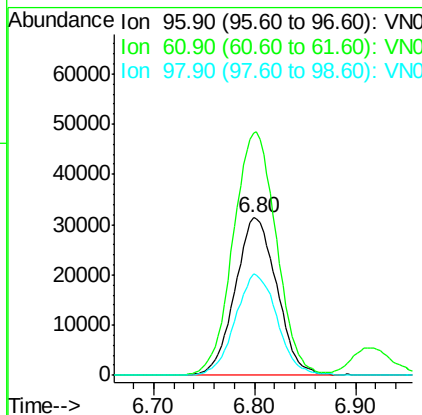
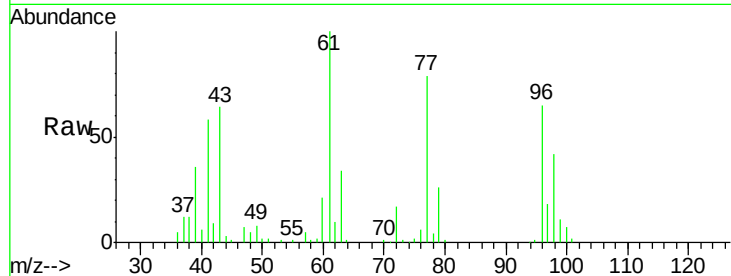
ClientSampleId :

VN09216WBSD02

Tot Ion:	96	Resp:	89860
Ion Ratio	Lower	Upper	
96	100		
61	159.7	0.0	319.0
98	64.6	0.0	126.6

Manual Integrations
APPROVED

MMDadoda
9/27/2019 11:19:30 AM



#28

Bromochloromethane

Concen: 19.299 ug/l

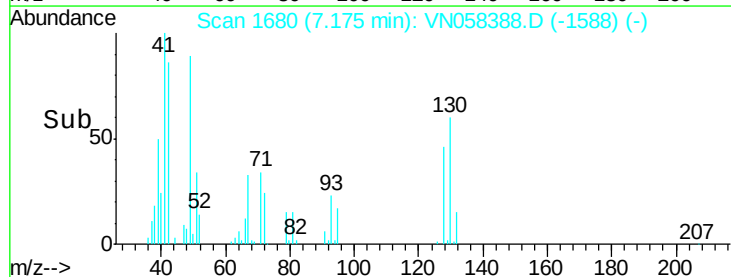
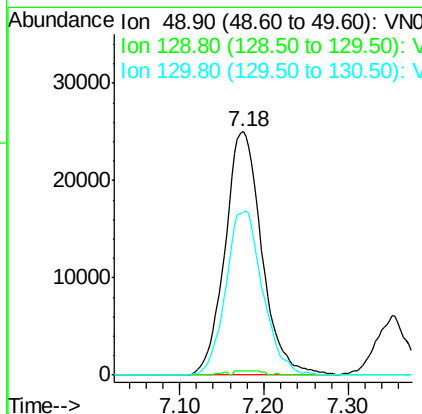
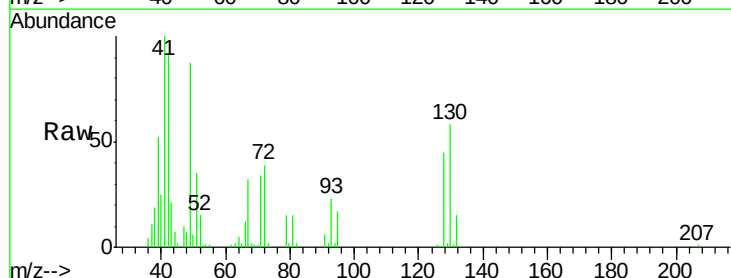
RT: 7.18 min Scan# 1680

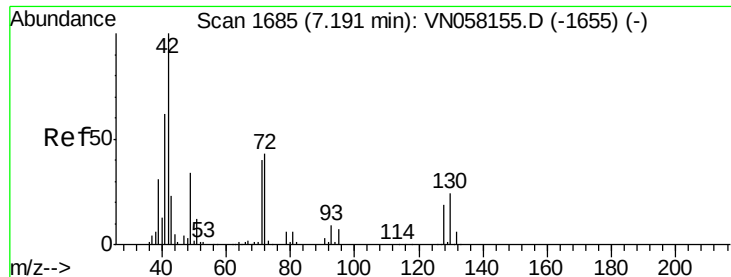
Delta R.T. -0.00 min

Lab File: VN058388.D

Acq: 26 Sep 2019 16:04

Tgt Ion:	49	Resp:	75992
Ion Ratio	Lower	Upper	
49	100		
129	0.7	0.0	1.8
130	67.3	55.4	83.2





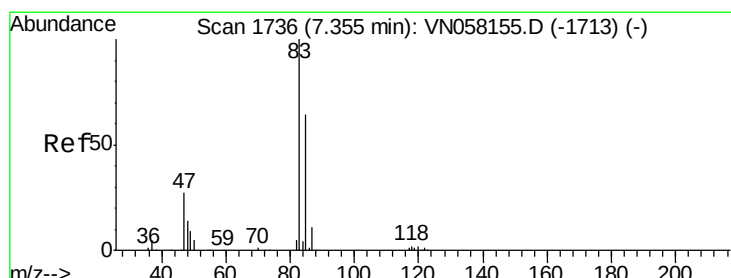
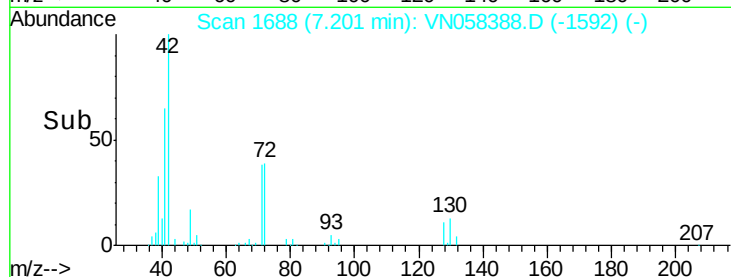
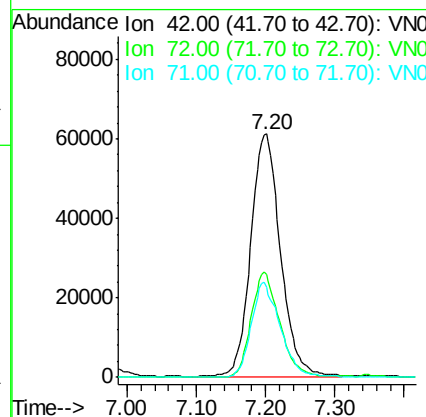
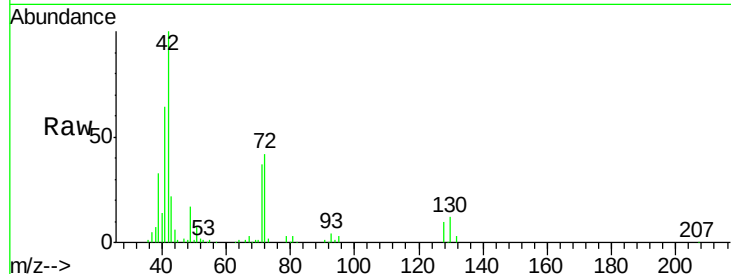
#29
Tetrahydrofuran
Concen: 98.485 ug/l
RT: 7.20 min Scan# 1688
Delta R.T. 0.01 min
Lab File: VN058388.D
Acq: 26 Sep 2019 16:04

Instrument :
MSVOA_N
ClientSampleId :
VN09216WBSD02

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.5	33.8	50.6
71	38.4	31.4	47.0

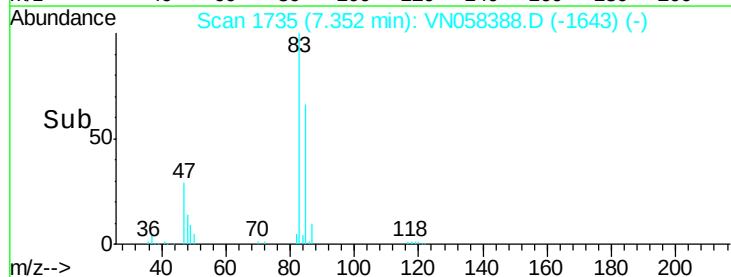
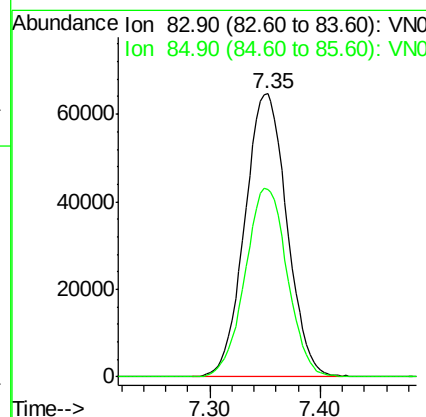
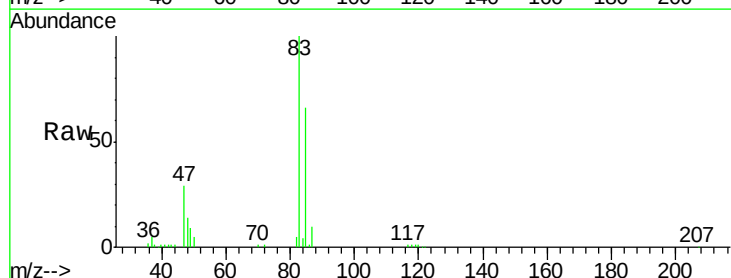
Manual Integrations
APPROVED

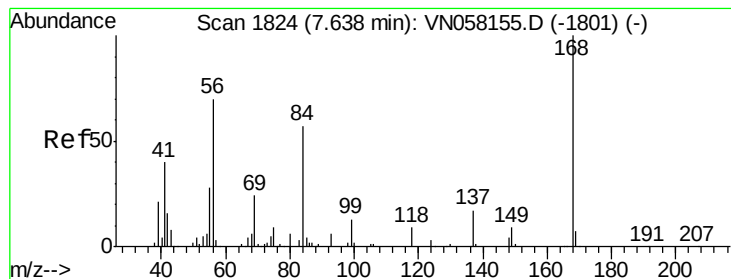
MMDadoda
9/27/2019 11:19:30 AM



#30
Chloroform
Concen: 19.107 ug/l
RT: 7.35 min Scan# 1735
Delta R.T. -0.00 min
Lab File: VN058388.D
Acq: 26 Sep 2019 16:04

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.3	51.4	77.2





#31

Cyclohexane

Concen: 18.231 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. -0.01 min

Lab File: VN058388.D

Acq: 26 Sep 2019 16:04

Instrument :

MSVOA_N

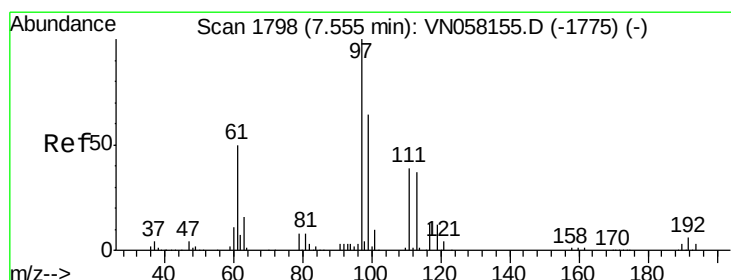
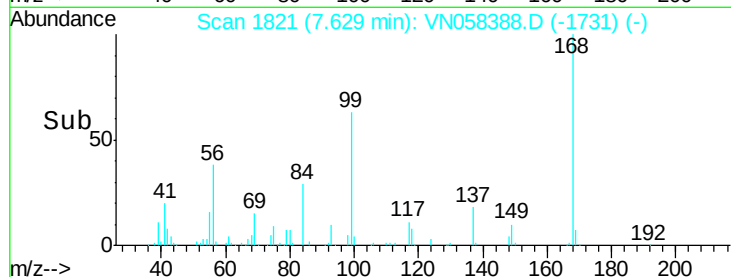
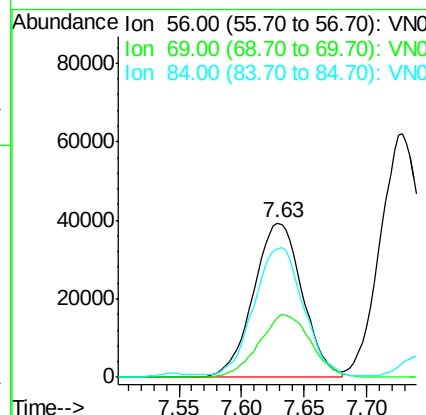
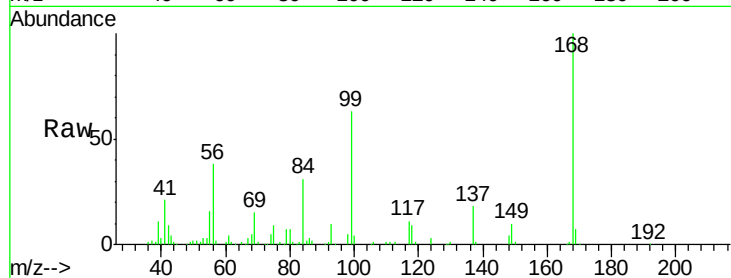
ClientSampleId :

VN09216WBSD02

Tot Ion	56	Resp	106345
Ion	Ratio	Lower	Upper
56	100		
69	38.8	27.3	40.9
84	81.2	65.0	97.4

Manual Integrations
APPROVED

MMDadoda
9/27/2019 11:19:30 AM



#32

1,1,1-Trichloroethane

Concen: 18.837 ug/l

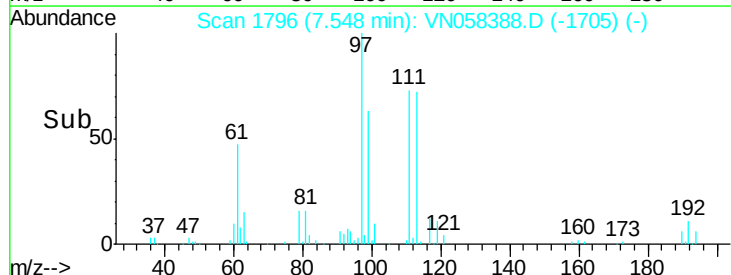
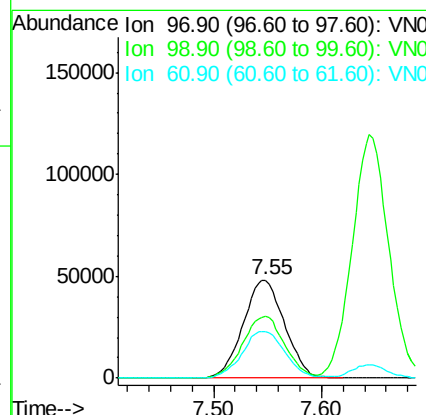
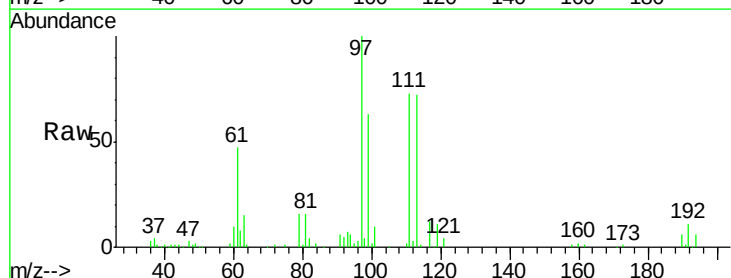
RT: 7.55 min Scan# 1796

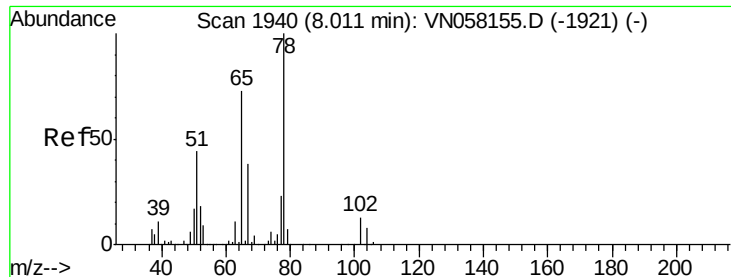
Delta R.T. -0.01 min

Lab File: VN058388.D

Acq: 26 Sep 2019 16:04

Tgt Ion	97	Resp	128480
Ion	Ratio	Lower	Upper
97	100		
99	64.0	50.9	76.3
61	48.8	39.2	58.8





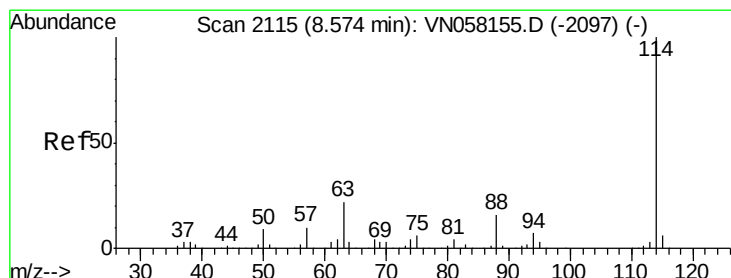
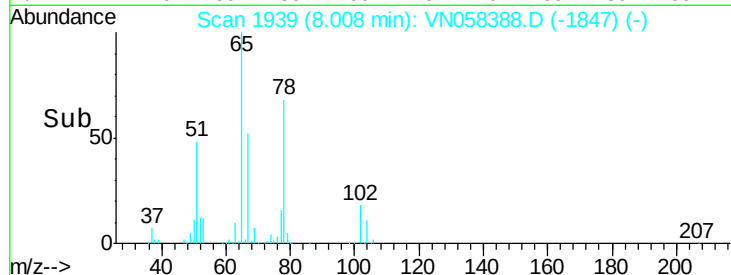
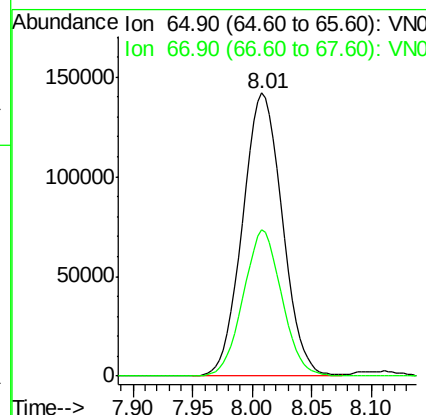
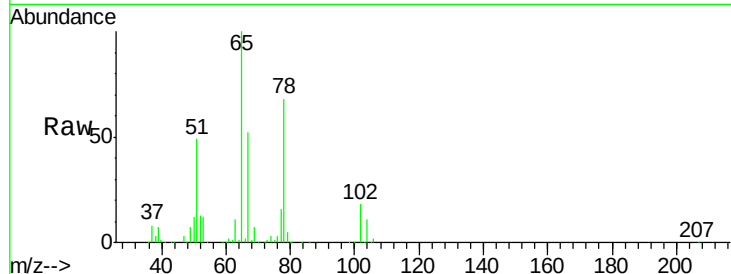
#33
 1,2-Dichloroethane-d4
 Concen: 50.993 ug/l
 RT: 8.01 min Scan# 1939
 Delta R.T. -0.00 min
 Lab File: VN058388.D
 Acq: 26 Sep 2019 16:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VN09216WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	49.9	0.0	103.4	

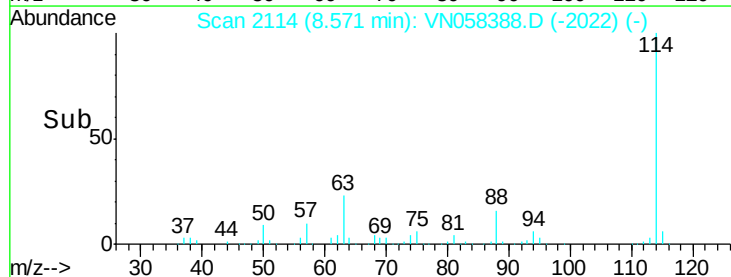
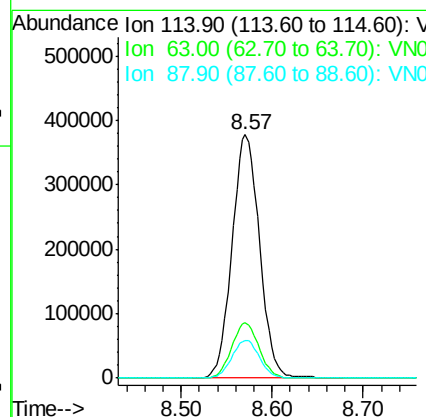
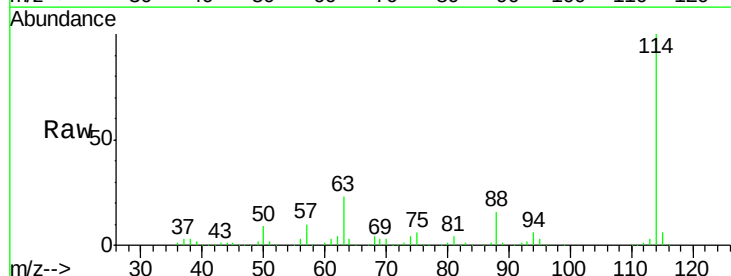
Manual Integrations
 APPROVED

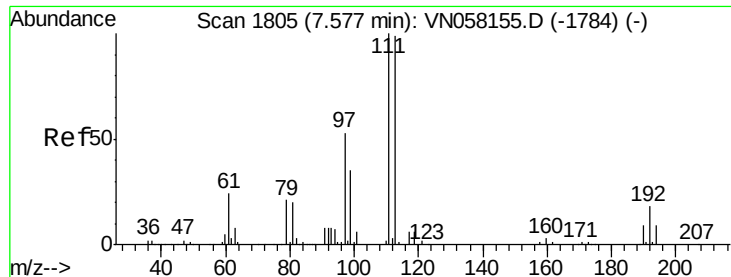
MMDadoda
 9/27/2019 11:19:30 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2114
 Delta R.T. -0.00 min
 Lab File: VN058388.D
 Acq: 26 Sep 2019 16:04

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	22.8	0.0	44.2	
88	15.6	0.0	31.6	





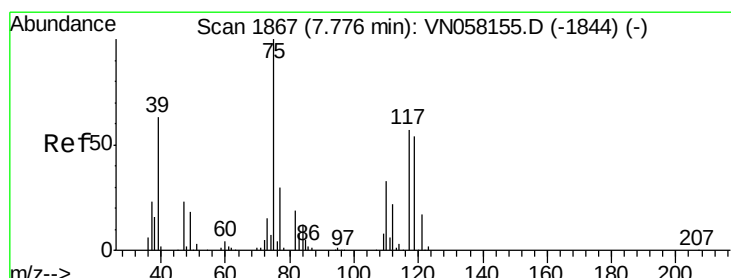
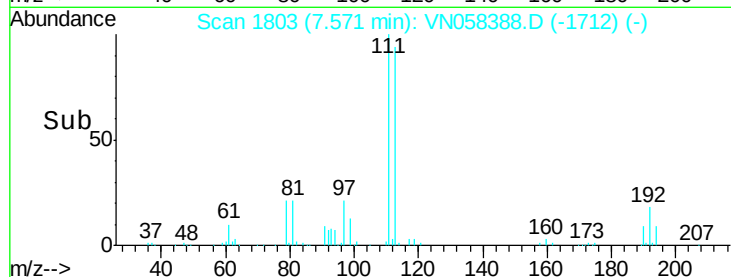
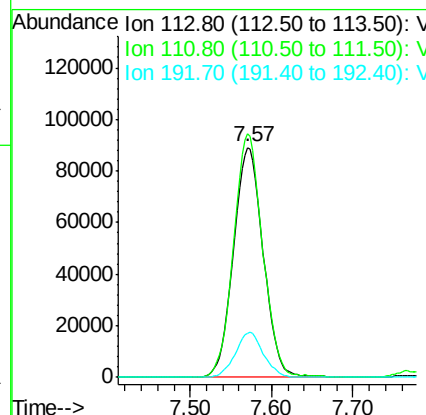
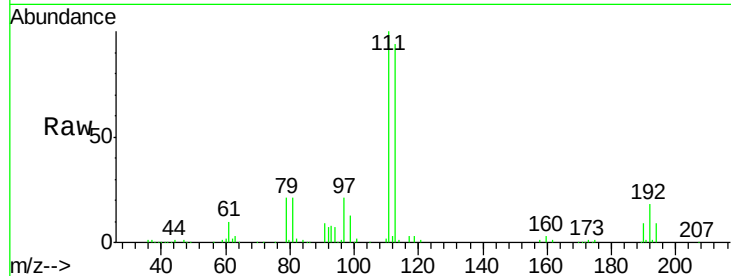
#35
Dibromofluoromethane
Concen: 47.220 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. -0.01 min
Lab File: VN058388.D
Acq: 26 Sep 2019 16:04

Instrument :
MSVOA_N
ClientSampleId :
VN09216WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
113	100	227123		
111	103.8	81.8	122.6	
192	18.6	14.5	21.7	

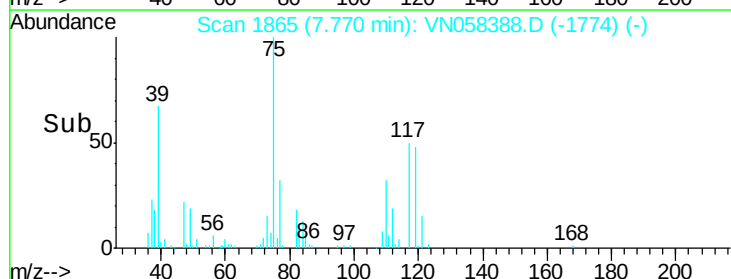
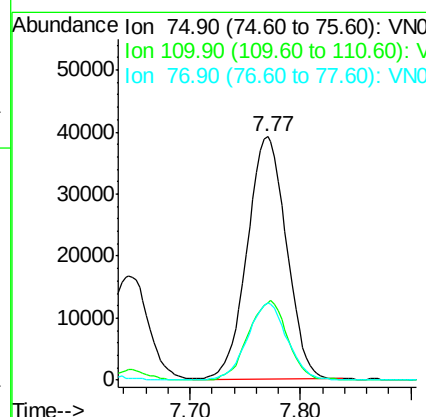
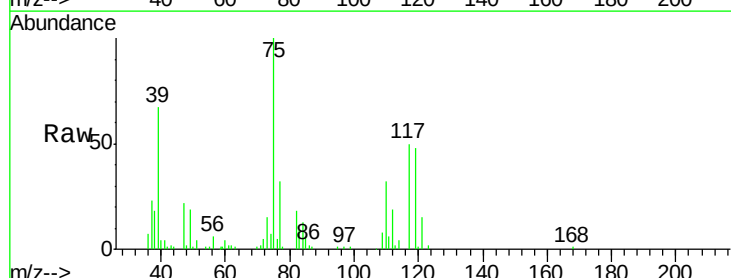
Manual Integrations
APPROVED

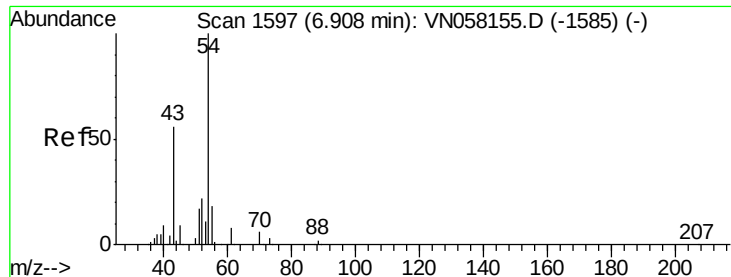
MMDadoda
9/27/2019 11:19:30 AM



#36
1,1-Dichloropropene
Concen: 16.930 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. -0.01 min
Lab File: VN058388.D
Acq: 26 Sep 2019 16:04

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	96599		
110	32.7	16.6	49.7	
77	32.2	24.3	36.5	





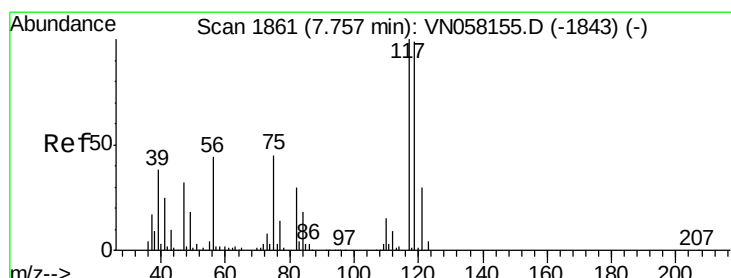
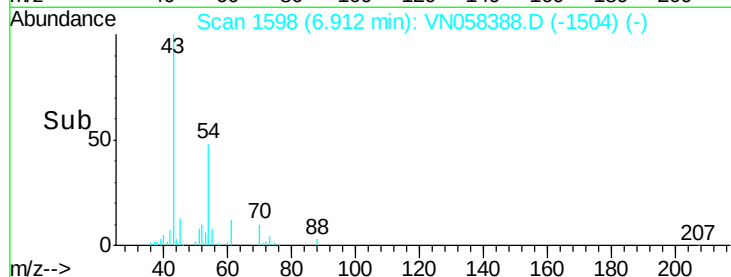
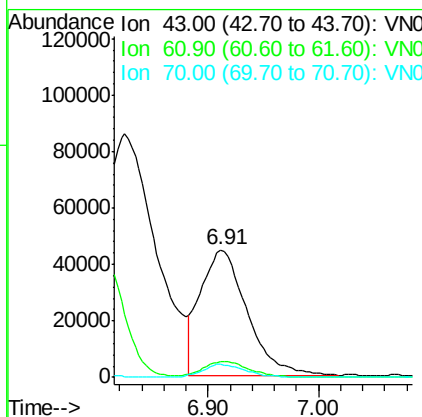
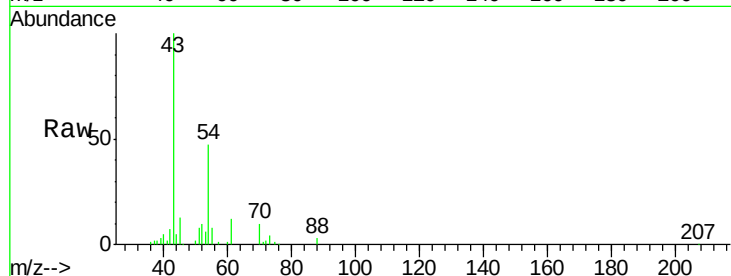
#37
Ethyl Acetate
Concen: 22.156 ug/l
RT: 6.91 min Scan# 1598
Delta R.T. 0.00 min
Lab File: VN058388.D
Acq: 26 Sep 2019 16:04

Instrument :
MSVOA_N
ClientSampleId :
VN09216WBSD02

Tot Ion	Ratio	Lower	Upper
43	100		
61	12.5	10.7	16.1
70	9.5	7.6	11.4

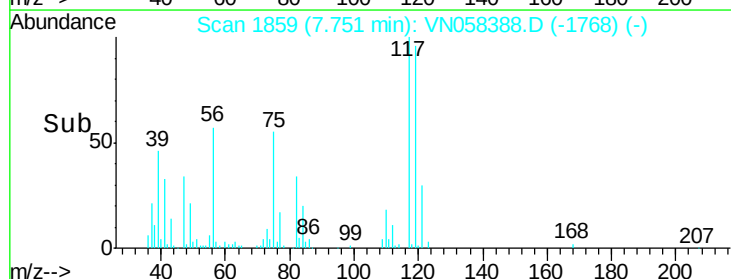
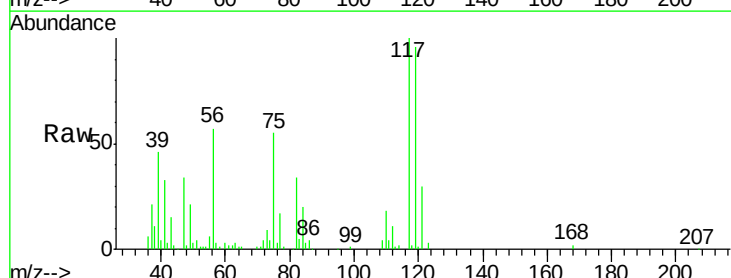
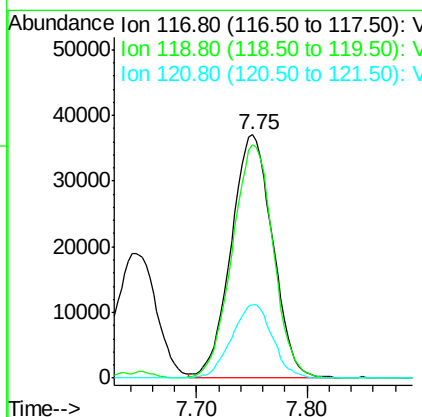
Manual Integrations
APPROVED

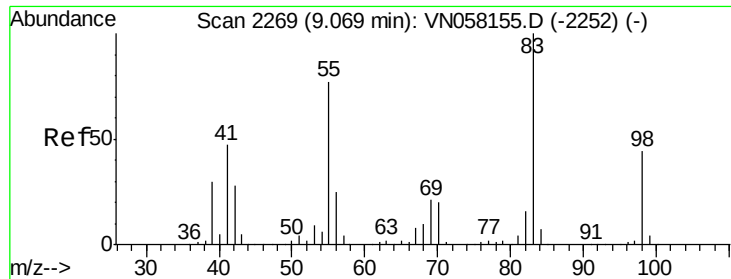
MMDadoda
9/27/2019 11:19:30 AM



#38
Carbon Tetrachloride
Concen: 16.896 ug/l
RT: 7.75 min Scan# 1859
Delta R.T. -0.01 min
Lab File: VN058388.D
Acq: 26 Sep 2019 16:04

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.1	78.6	117.8
121	30.4	24.1	36.1





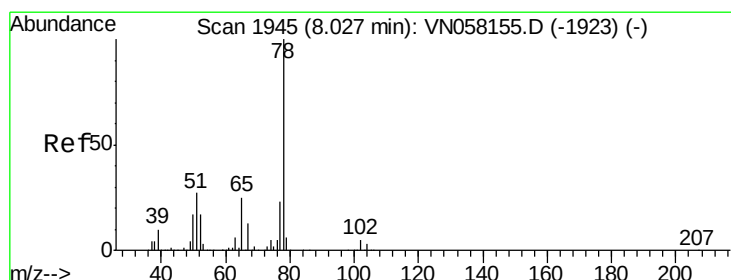
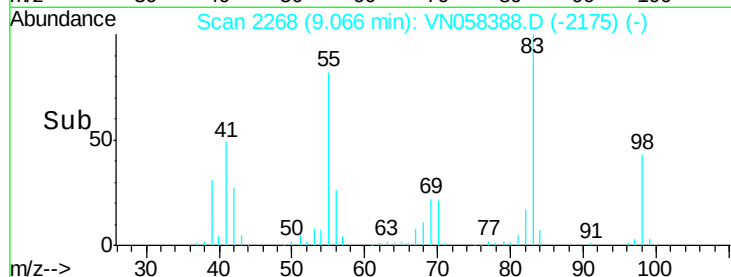
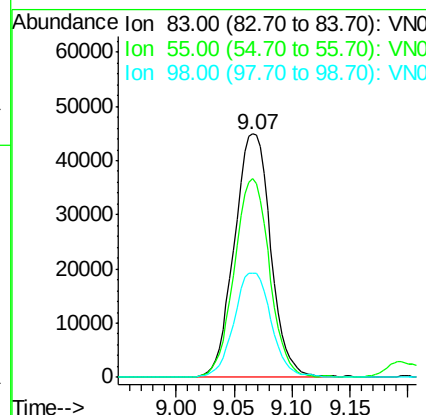
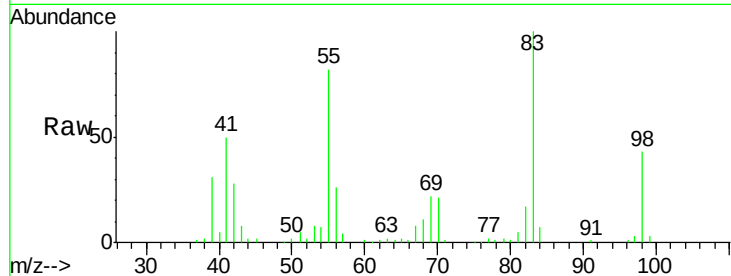
#39
Methylvlcyclohexane
Concen: 17.801 ug/l
RT: 9.07 min Scan# 2268
Delta R.T. -0.00 min
Lab File: VN058388.D
Acq: 26 Sep 2019 16:04

Instrument :
MSVOA_N
ClientSampleId :
VN09216WBSD02

Tot Ion	Ratio	Lower	Upper
83	100		
55	81.6	61.9	92.9
98	42.9	35.4	53.2

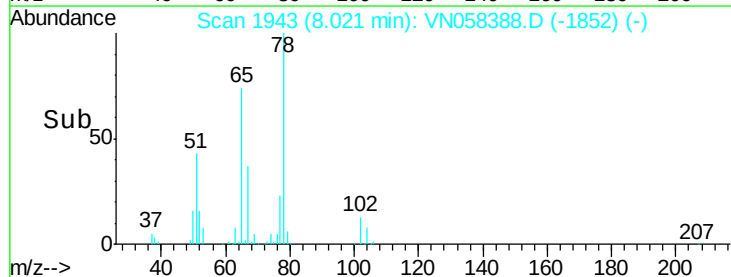
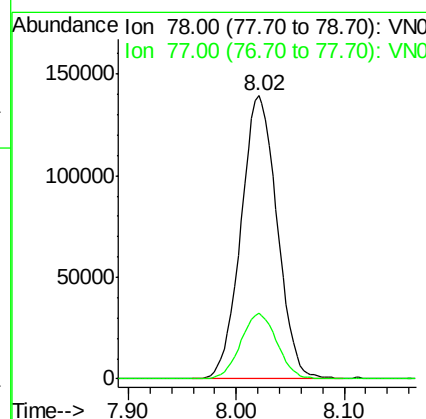
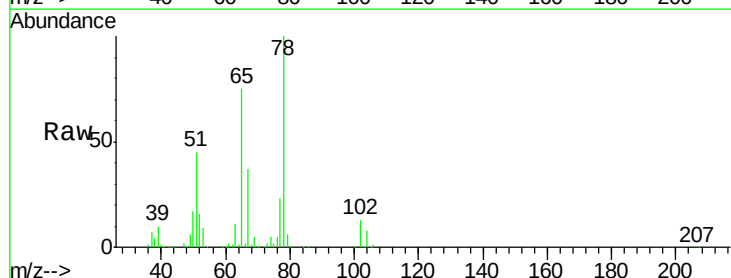
Manual Integrations
APPROVED

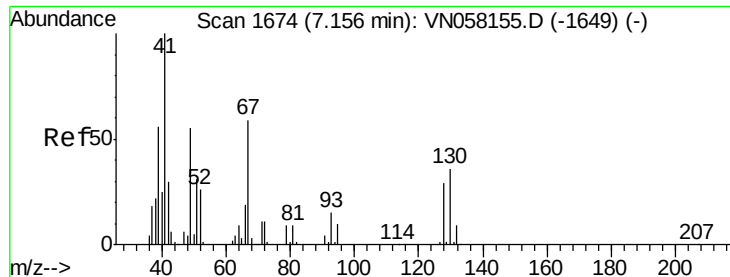
MMDadoda
9/27/2019 11:19:30 AM



#40
Benzene
Concen: 18.644 ug/l
RT: 8.02 min Scan# 1943
Delta R.T. -0.01 min
Lab File: VN058388.D
Acq: 26 Sep 2019 16:04

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.1	18.8	28.2





#41

Methacrylonitrile

Concen: 17.704 ug/l

RT: 7.16 min Scan# 1674

Delta R.T. 0.00 min

Lab File: VN058388.D

Acq: 26 Sep 2019 16:04

Instrument :

MSVOA_N

ClientSampleId :

VN09216WBSD02

Tot Ion: 41 Resp: 51025

Ion Ratio Lower Upper

41 100

39 68.5 0.0 0.0#

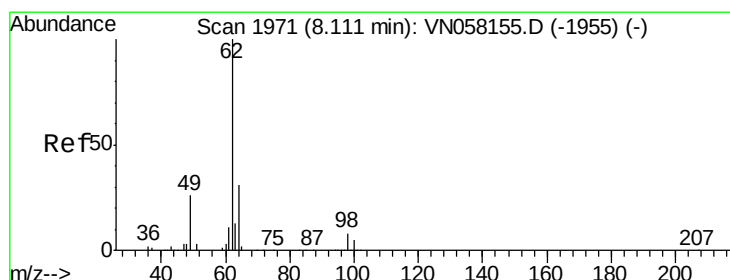
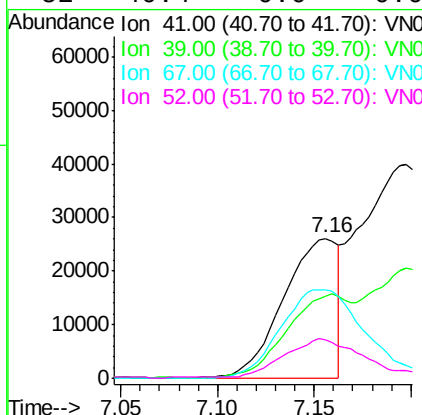
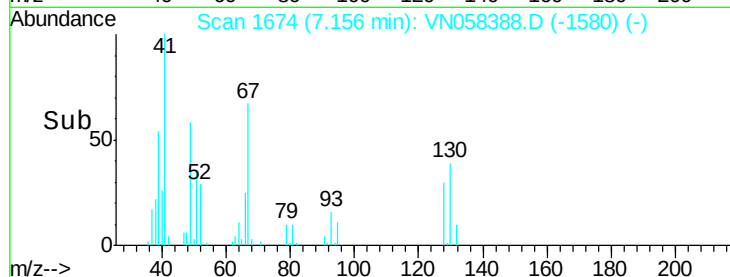
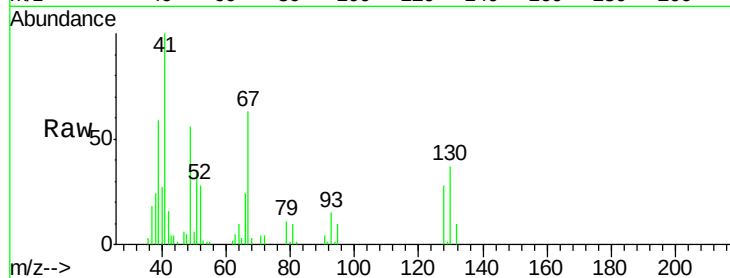
67 101.0 0.0 0.0#

52 40.4 0.0 0.0#

Manual Integrations
APPROVED

MMDadoda

9/27/2019 11:19:30 AM



#42

1,2-Dichloroethane

Concen: 19.347 ug/l

RT: 8.11 min Scan# 1970

Delta R.T. -0.00 min

Lab File: VN058388.D

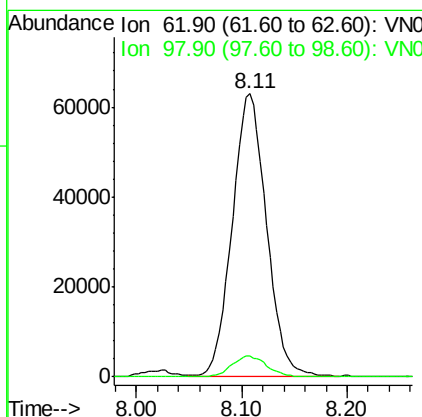
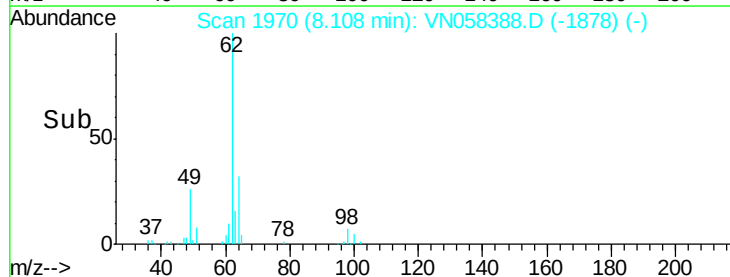
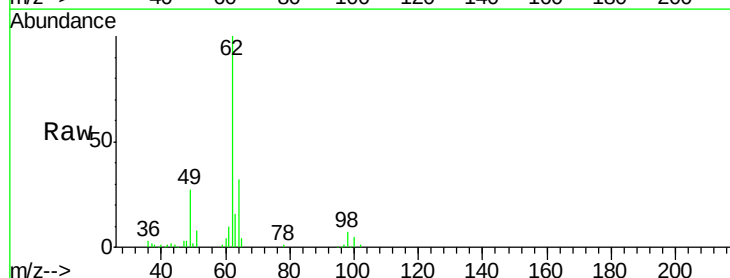
Acq: 26 Sep 2019 16:04

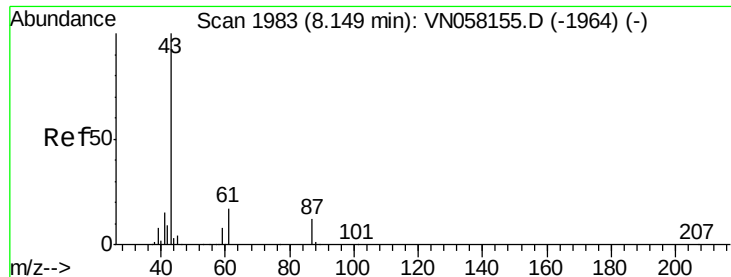
Tgt Ion: 62 Resp: 141476

Ion Ratio Lower Upper

62 100

98 7.5 0.0 15.6





#43

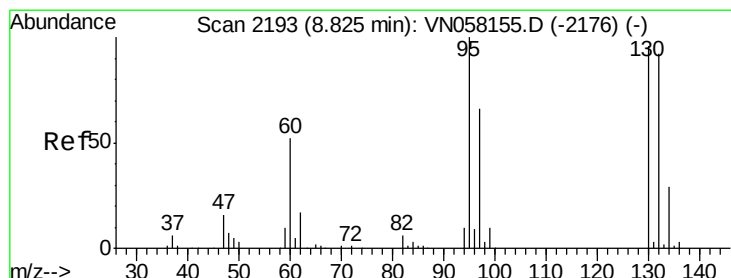
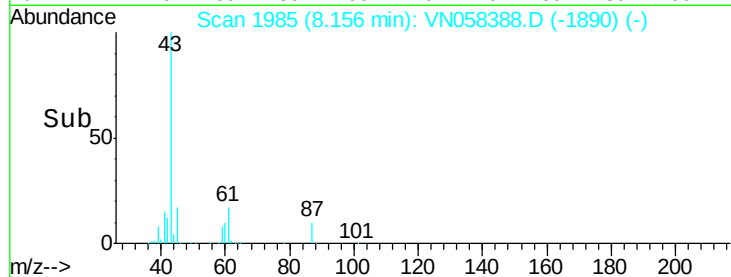
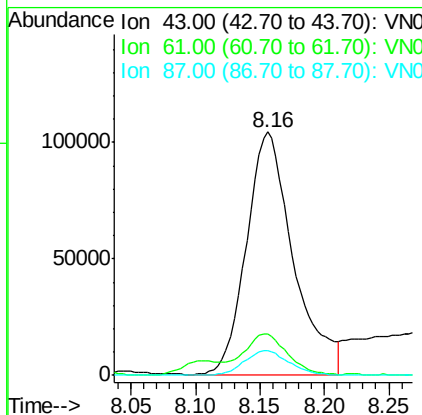
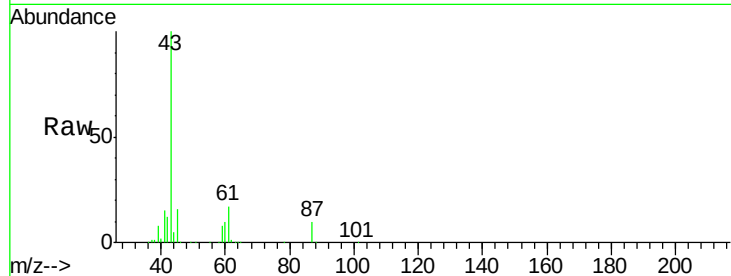
Isopropyl Acetate
 Concen: 23.932 ug/l
 RT: 8.16 min Scan# 1985
 Delta R.T. 0.01 min
 Lab File: VN058388.D
 Acq: 26 Sep 2019 16:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VN09216WBSD02

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.2	19.7	29.5#
87	9.8	9.4	14.2

Manual Integrations
 APPROVED

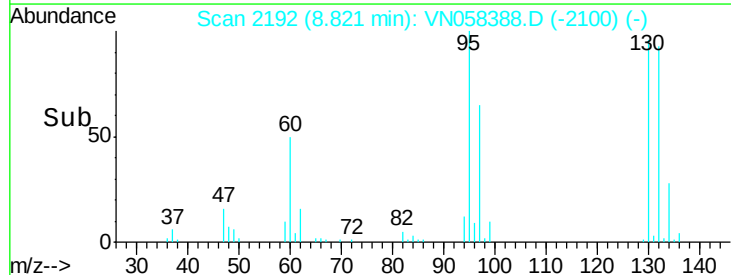
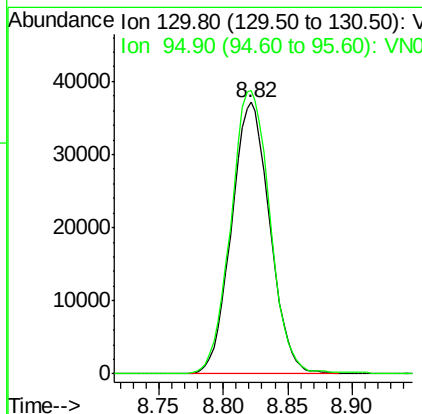
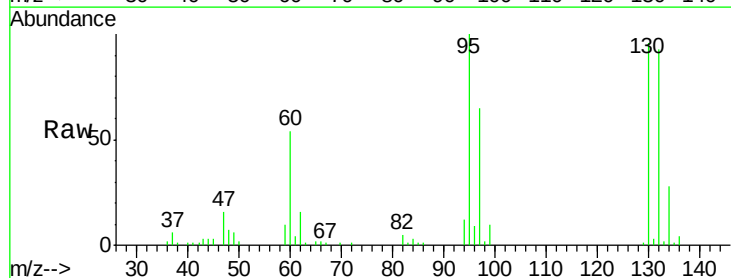
MMDadoda
 9/27/2019 11:19:30 AM

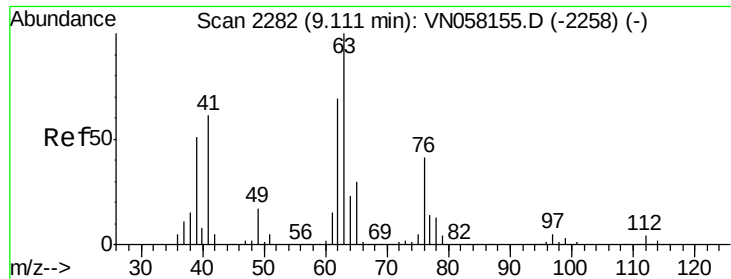


#44

Trichloroethene
 Concen: 17.983 ug/l
 RT: 8.82 min Scan# 2192
 Delta R.T. -0.00 min
 Lab File: VN058388.D
 Acq: 26 Sep 2019 16:04

Tgt Ion	Ratio	Lower	Upper
130	100		
95	104.3	0.0	207.8





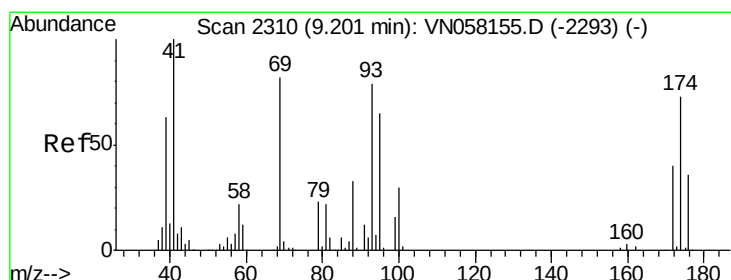
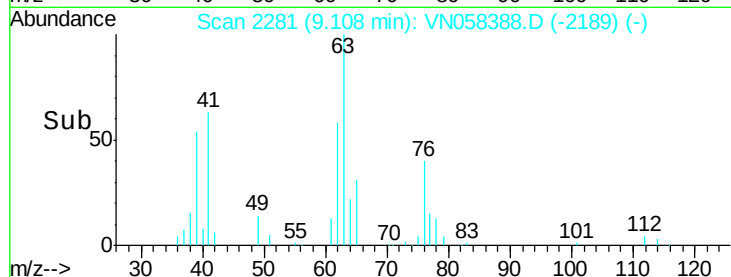
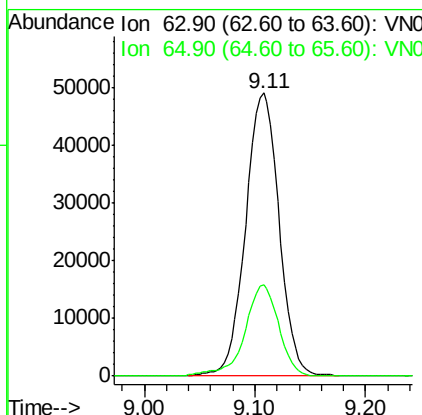
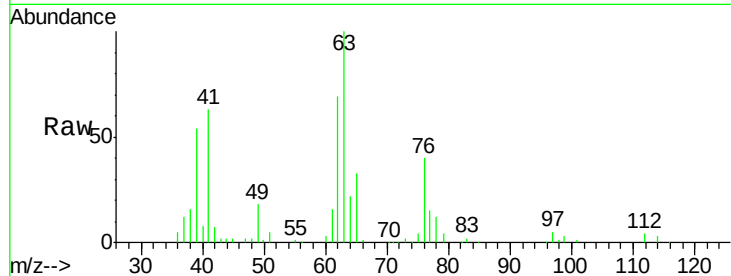
#45
 1,2-Dichloropropane
 Concen: 19.876 ug/l
 RT: 9.11 min Scan# 2281
 Delta R.T. -0.00 min
 Lab File: VN058388.D
 Acq: 26 Sep 2019 16:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VN09216WBSD02

Tot Ion: 63 Resp: 103444
 Ion Ratio Lower Upper
 63 100
 65 32.2 23.8 35.6

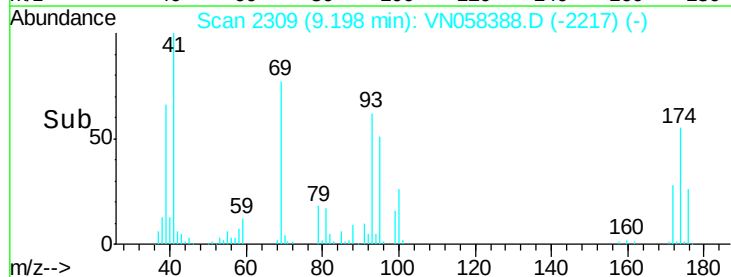
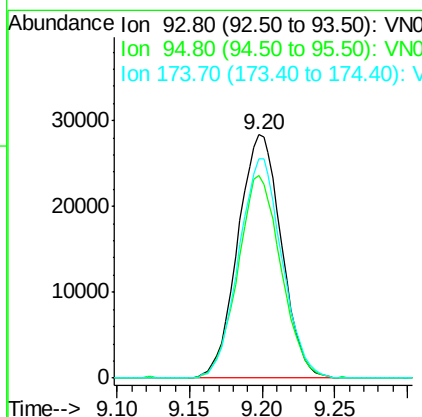
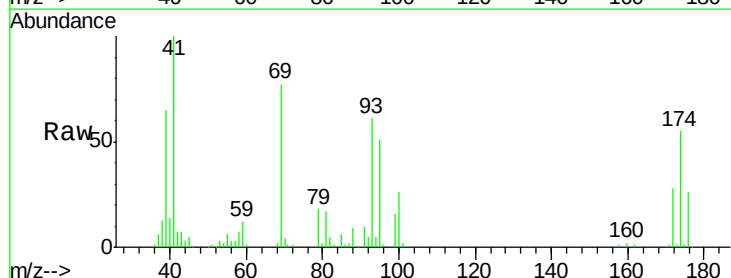
Manual Integrations
 APPROVED

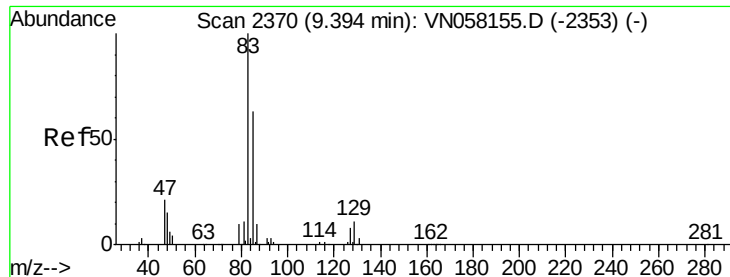
MMDadoda
 9/27/2019 11:19:30 AM



#46
 Dibromomethane
 Concen: 18.713 ug/l
 RT: 9.20 min Scan# 2309
 Delta R.T. -0.00 min
 Lab File: VN058388.D
 Acq: 26 Sep 2019 16:04

Tgt Ion: 93 Resp: 59214
 Ion Ratio Lower Upper
 93 100
 95 82.3 66.8 100.2
 174 89.4 73.8 110.8





#47

Bromodichloromethane

Concen: 18.040 ug/l

RT: 9.39 min Scan# 2370

Delta R.T. 0.00 min

Lab File: VN058388.D

Acq: 26 Sep 2019 16:04

Instrument :

MSVOA_N

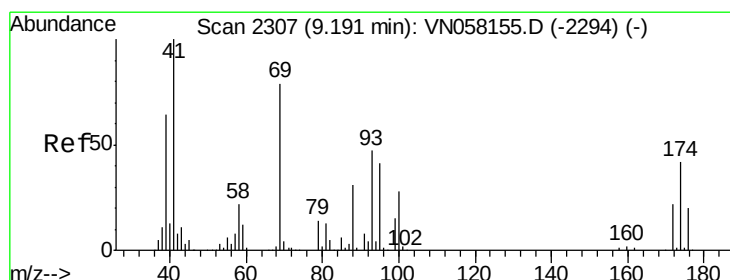
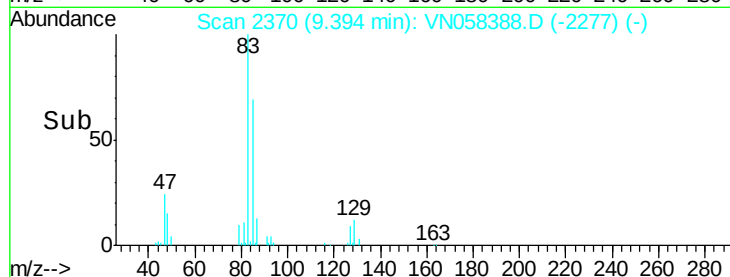
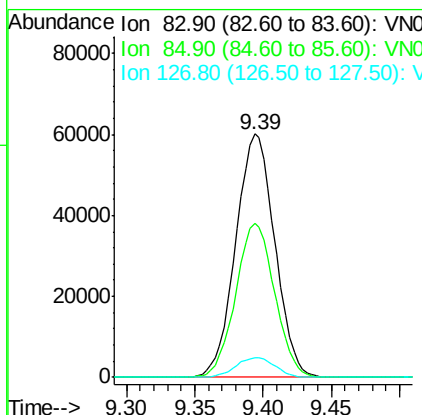
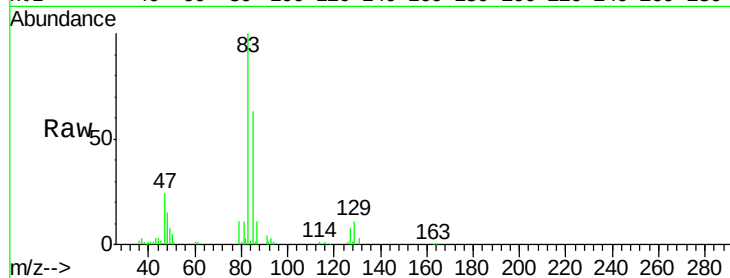
ClientSampleId :

VN09216WBSD02

Tot Ion:	83	Resp:	119585
Ion Ratio	Lower	Upper	
83	100		
85	63.3	50.1	75.1
127	8.1	6.4	9.6

Manual Integrations
APPROVED

MMDadoda
9/27/2019 11:19:30 AM



#48

Methyl methacrylate

Concen: 19.239 ug/l

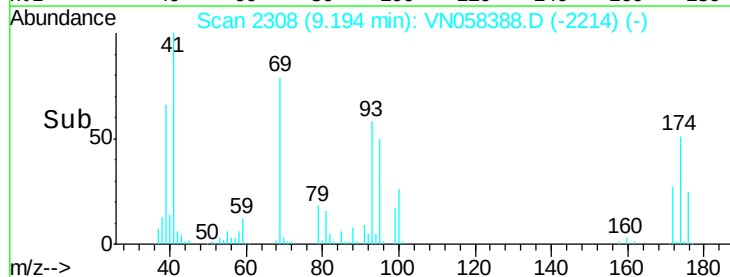
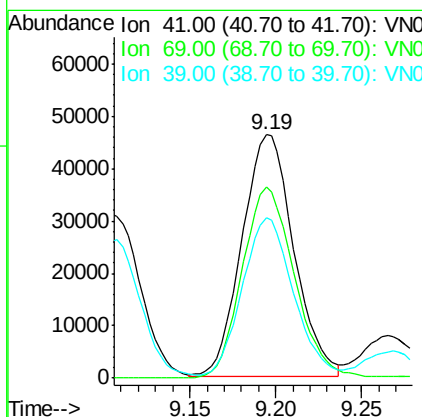
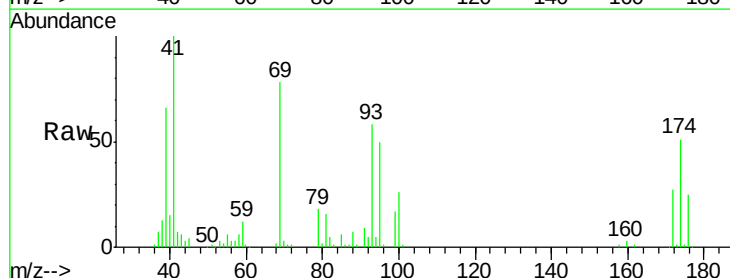
RT: 9.19 min Scan# 2308

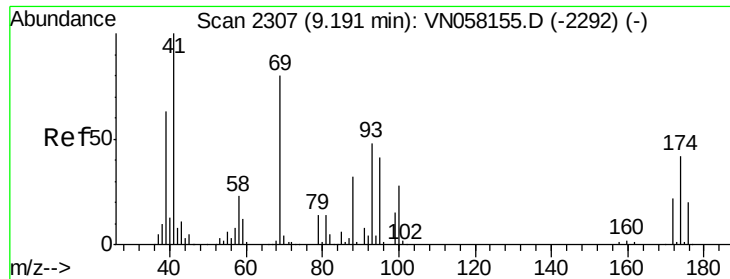
Delta R.T. 0.00 min

Lab File: VN058388.D

Acq: 26 Sep 2019 16:04

Tgt Ion:	41	Resp:	96602
Ion Ratio	Lower	Upper	
41	100		
69	79.5	62.5	93.7
39	65.4	52.3	78.5





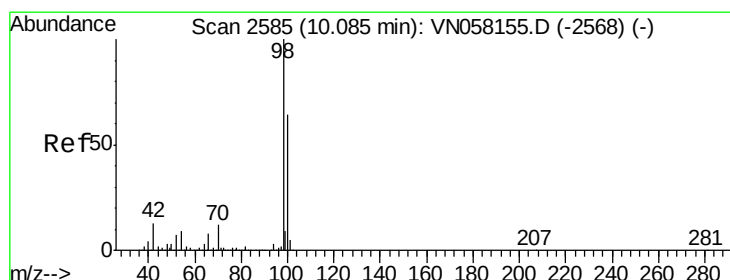
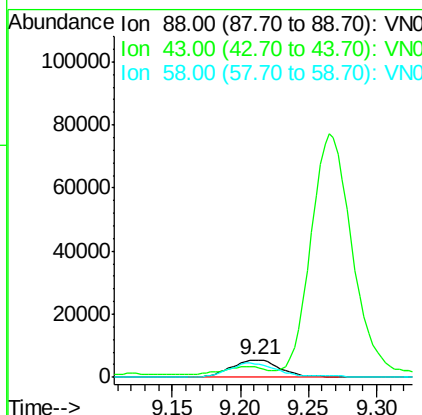
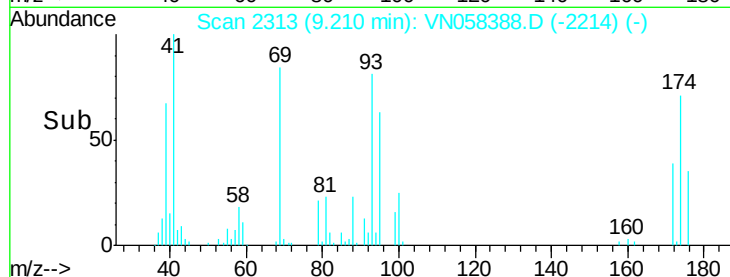
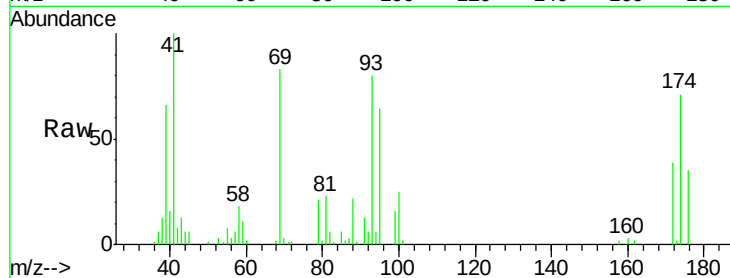
#49
1,4-Dioxane
Concen: 167.799 ug/l
RT: 9.21 min Scan# 2313
Delta R.T. 0.02 min
Lab File: VN058388.D
Acq: 26 Sep 2019 16:04

Instrument :
MSVOA_N
ClientSampleId :
VN09216WBSD02

Tot Ion	Ratio	Lower	Upper
88	100		
43	39.9	27.8	41.8
58	79.2	55.0	82.4

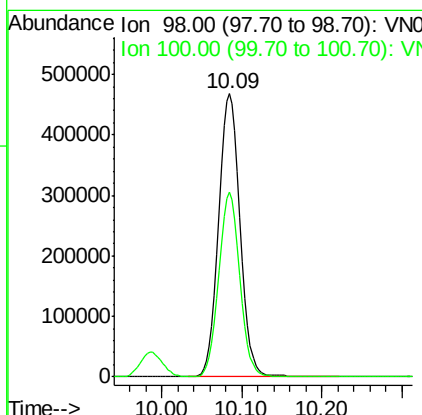
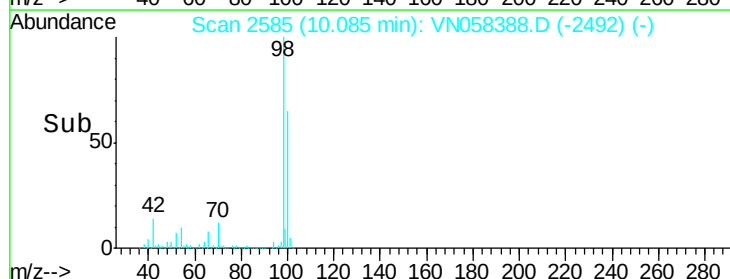
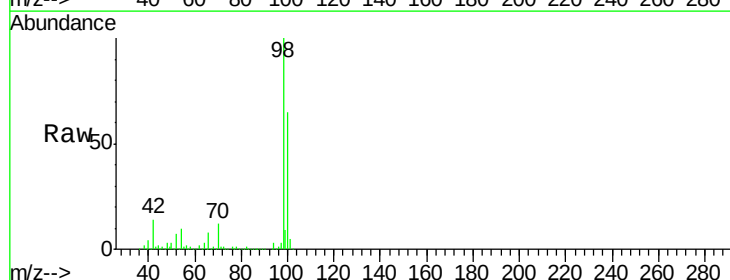
Manual Integrations
APPROVED

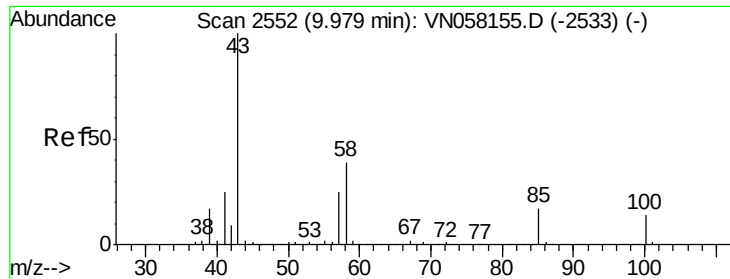
MMDadoda
9/27/2019 11:19:30 AM



#50
Toluene-d8
Concen: 46.443 ug/l
RT: 10.09 min Scan# 2585
Delta R.T. 0.00 min
Lab File: VN058388.D
Acq: 26 Sep 2019 16:04

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.9	51.1	76.7





#51

4-Methyl-2-Pentanone

Concen: 106.239 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.01 min

Lab File: VN058388.D

Acq: 26 Sep 2019 16:04

Instrument :

MSVOA_N

ClientSampleId :

VN09216WBSD02

Tot Ion: 43 Resp: 624043

Ion Ratio Lower Upper

43 100

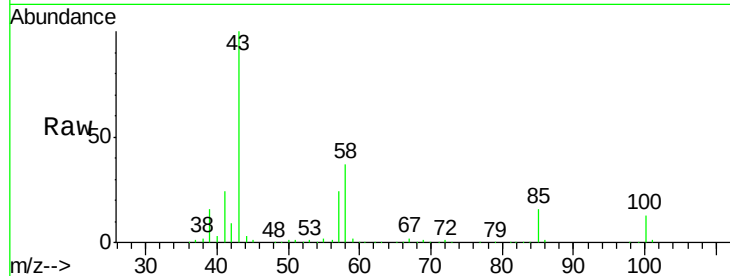
58 36.9 30.2 45.4

Manual Integrations

APPROVED

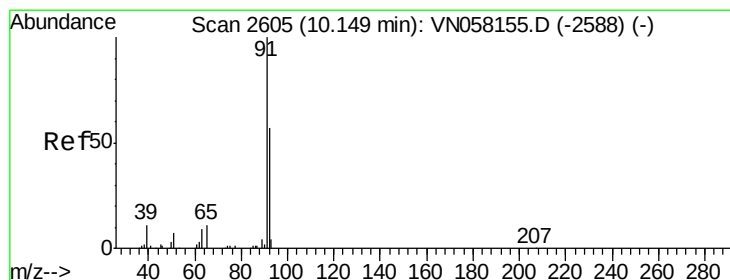
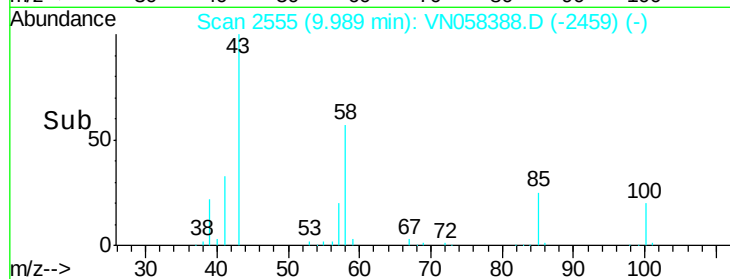
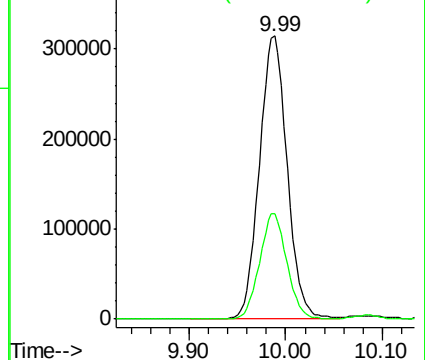
MMDadoda

9/27/2019 11:19:30 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 17.902 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. 0.00 min

Lab File: VN058388.D

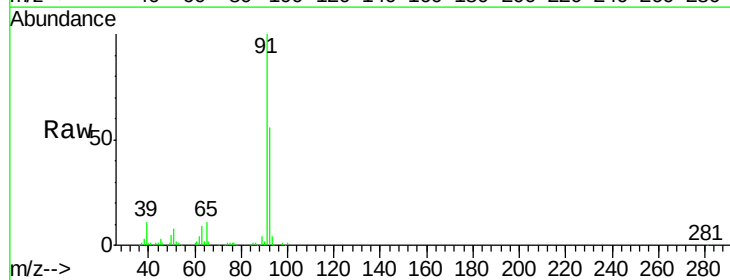
Acq: 26 Sep 2019 16:04

Tgt Ion: 92 Resp: 195526

Ion Ratio Lower Upper

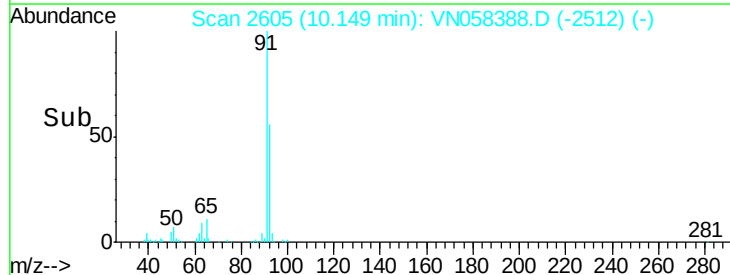
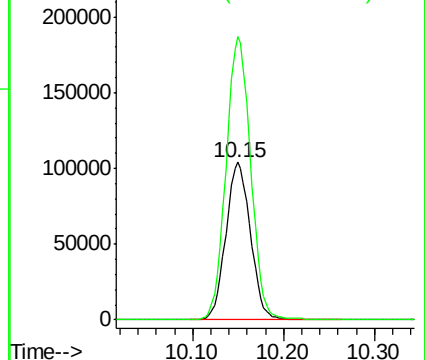
92 100

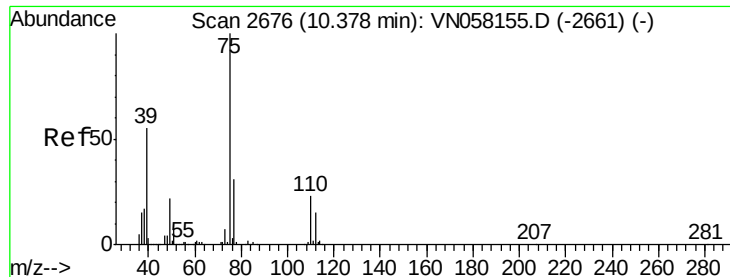
91 179.6 140.2 210.2



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





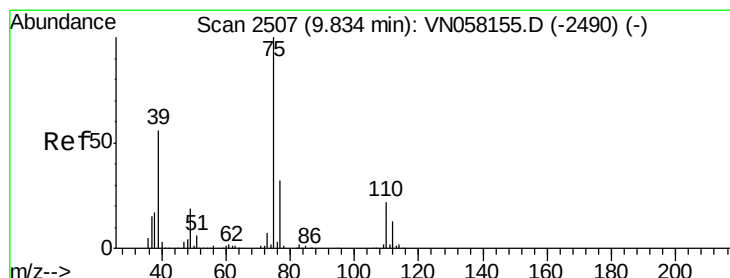
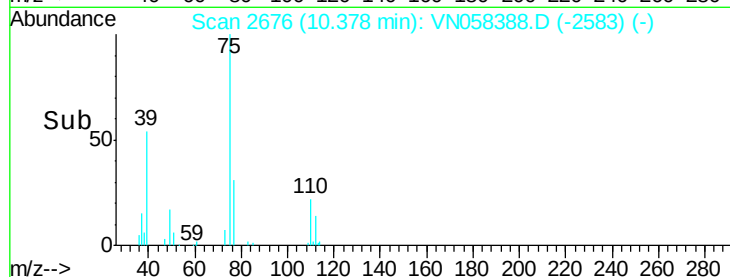
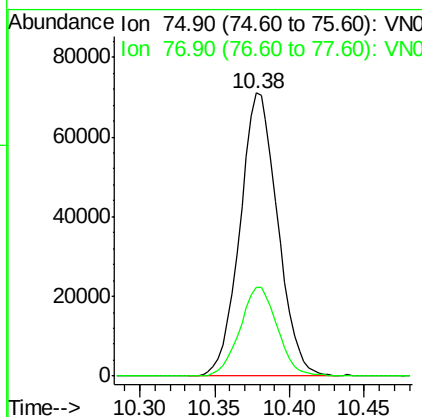
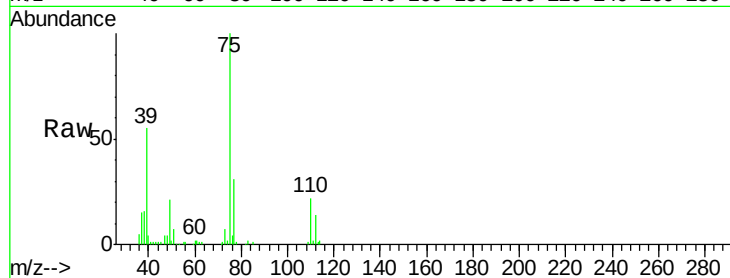
#53
t-1,3-Dichloropropene
Concen: 18.357 ug/l
RT: 10.38 min Scan# 2676
Delta R.T. 0.00 min
Lab File: VN058388.D
Acq: 26 Sep 2019 16:04

Instrument :
MSVOA_N
ClientSampleId :
VN09216WBSD02

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.3	24.9	37.3

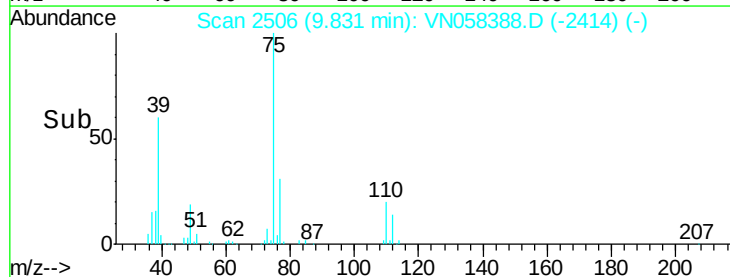
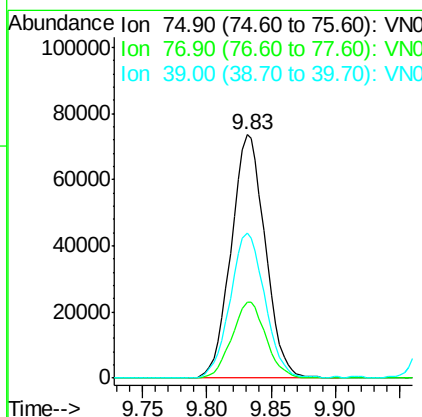
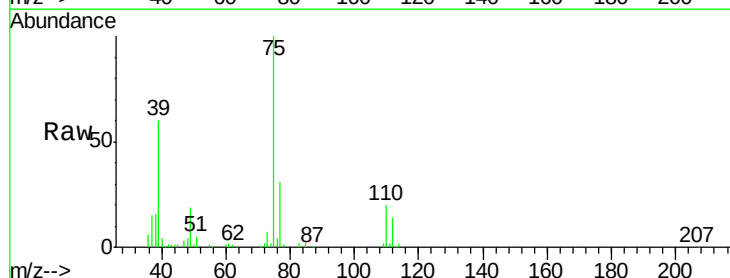
Manual Integrations
APPROVED

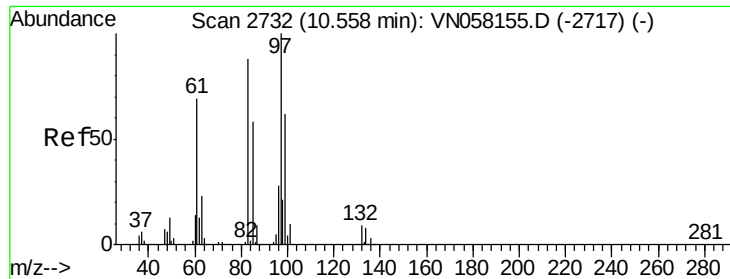
MMDadoda
9/27/2019 11:19:30 AM



#54
cis-1,3-Dichloropropene
Concen: 18.029 ug/l
RT: 9.83 min Scan# 2506
Delta R.T. -0.00 min
Lab File: VN058388.D
Acq: 26 Sep 2019 16:04

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.1	25.4	38.0
39	59.4	45.0	67.6





#55

1,1,2-Trichloroethane

Concen: 19.668 ug/l

RT: 10.56 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VN058388.D

Acq: 26 Sep 2019 16:04

Instrument :

MSVOA_N

ClientSampleId :

VN09216WBSD02

Tot Ion: 97 Resp: 95330

Ion Ratio Lower Upper

97 100

83 88.4 70.4 105.6

85 56.2 46.8 70.2

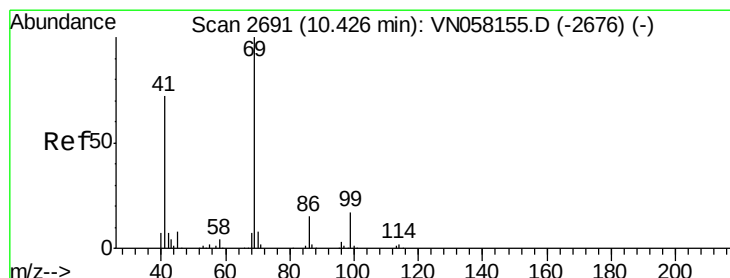
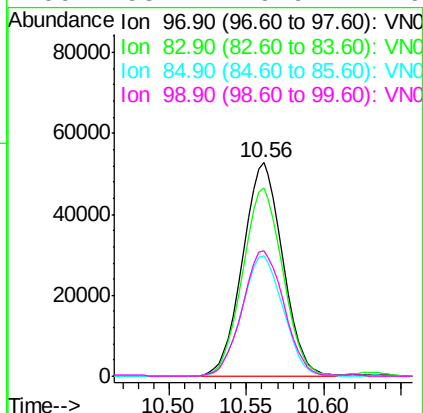
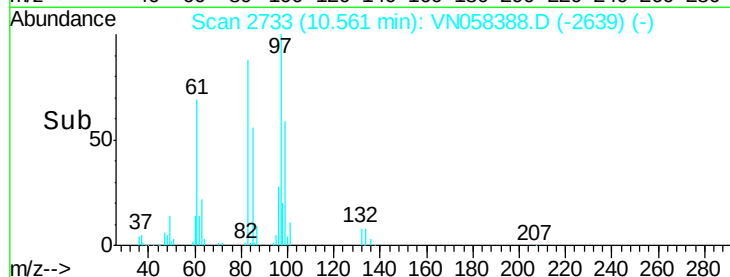
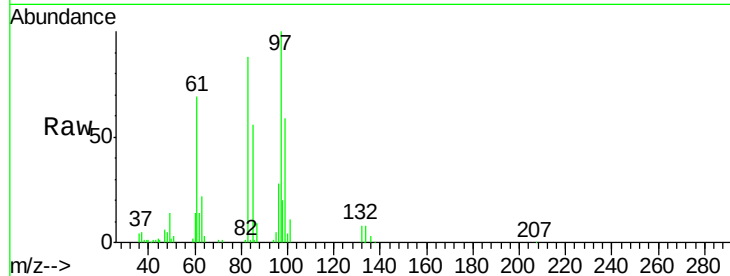
99 58.7 49.9 74.9

Manual Integrations

APPROVED

MMDadoda

9/27/2019 11:19:30 AM



#56

Ethyl methacrylate

Concen: 18.955 ug/l

RT: 10.43 min Scan# 2693

Delta R.T. 0.01 min

Lab File: VN058388.D

Acq: 26 Sep 2019 16:04

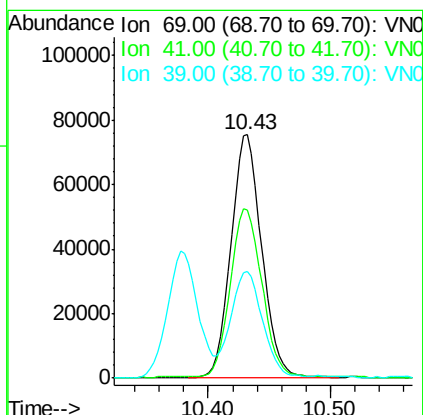
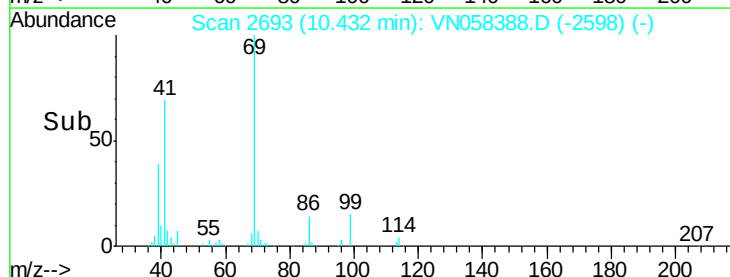
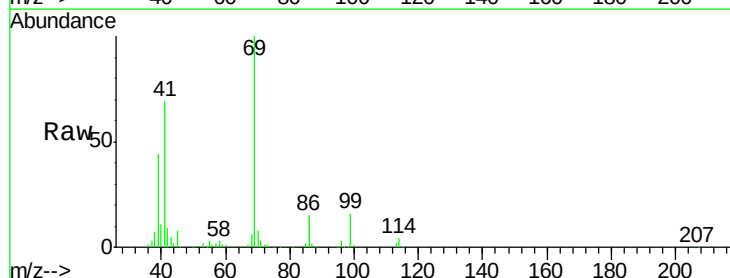
Tgt Ion: 69 Resp: 132560

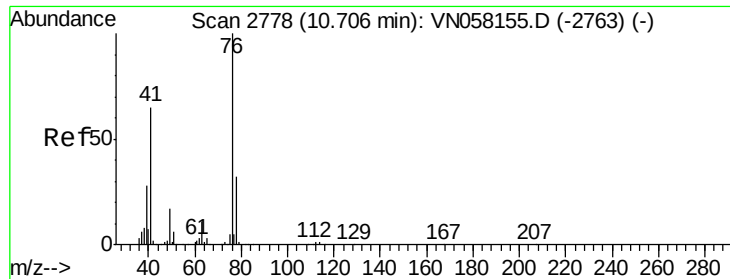
Ion Ratio Lower Upper

69 100

41 70.5 57.5 86.3

39 44.1 36.1 54.1





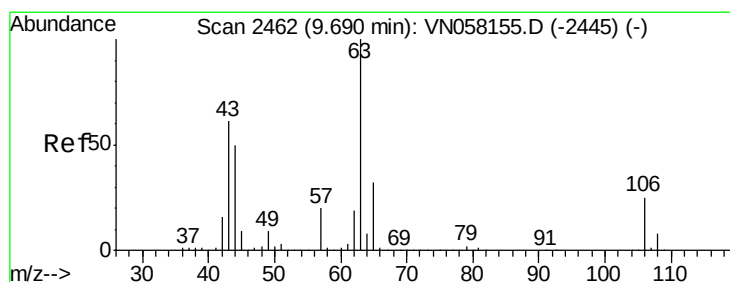
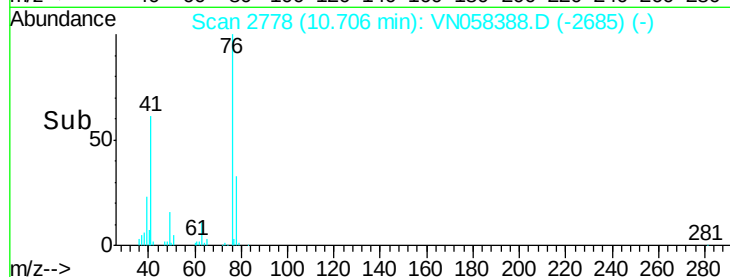
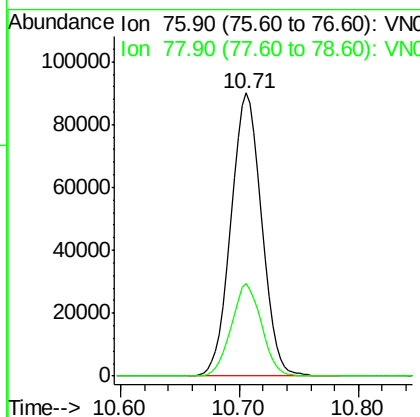
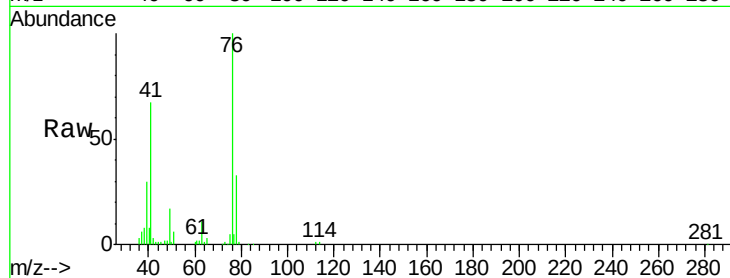
#57
 1,3-Dichloropropane
 Concen: 19.332 ug/l
 RT: 10.71 min Scan# 2778
 Delta R.T. 0.00 min
 Lab File: VN058388.D
 Acq: 26 Sep 2019 16:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VN09216WBSD02

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.1	25.4	38.0

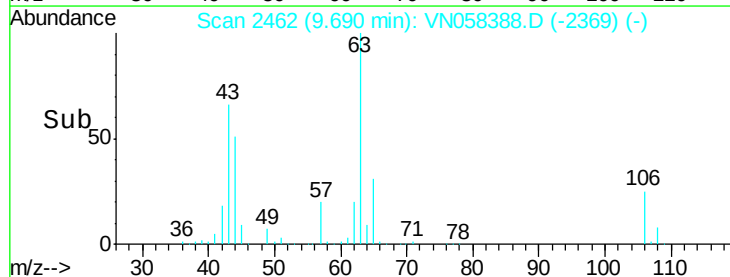
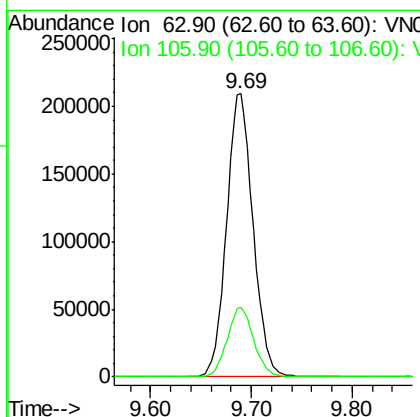
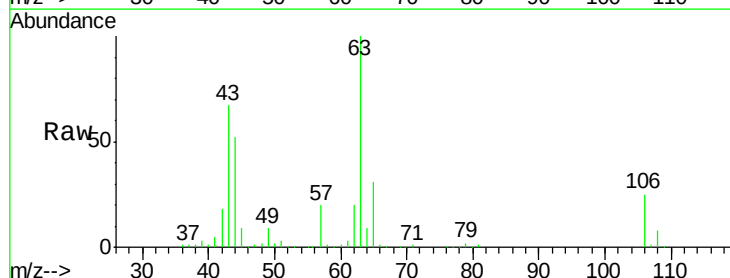
Manual Integrations
 APPROVED

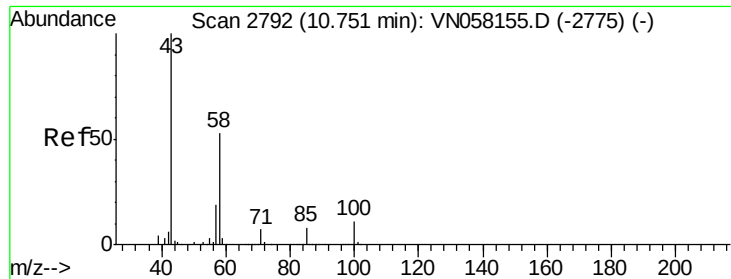
MMDadoda
 9/27/2019 11:19:30 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 114.892 ug/l
 RT: 9.69 min Scan# 2462
 Delta R.T. 0.00 min
 Lab File: VN058388.D
 Acq: 26 Sep 2019 16:04

Tgt Ion	Ratio	Lower	Upper
63	100		
106	24.6	19.9	29.9





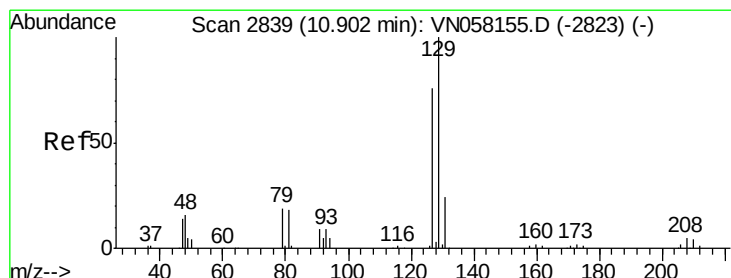
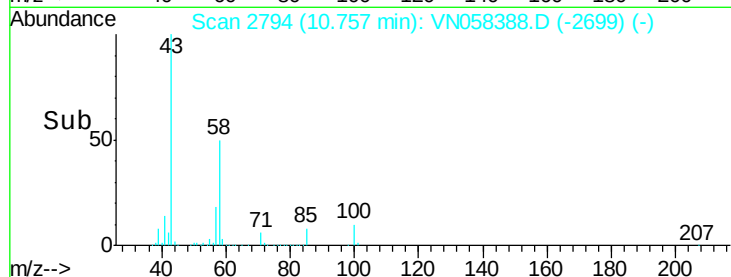
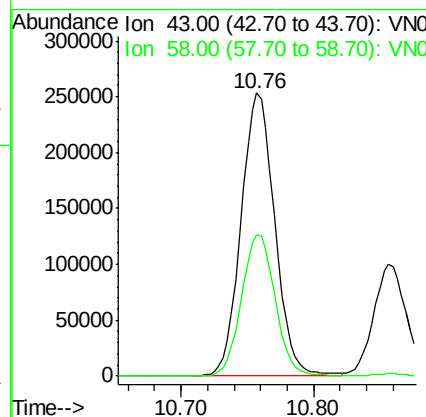
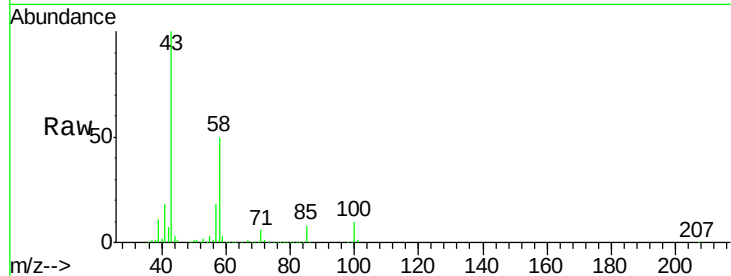
#59
2-Hexanone
Concen: 101.710 ug/l
RT: 10.76 min Scan# 2794
Delta R.T. 0.01 min
Lab File: VN058388.D
Acq: 26 Sep 2019 16:04

Instrument :
MSVOA_N
ClientSampleId :
VN09216WBSD02

Tot Ion: 43 Resp: 443712
Ion Ratio Lower Upper
43 100
58 50.2 26.0 78.0

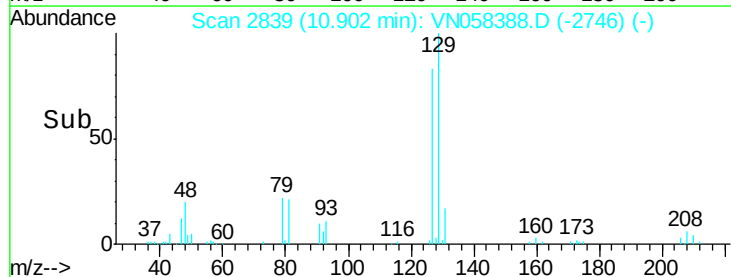
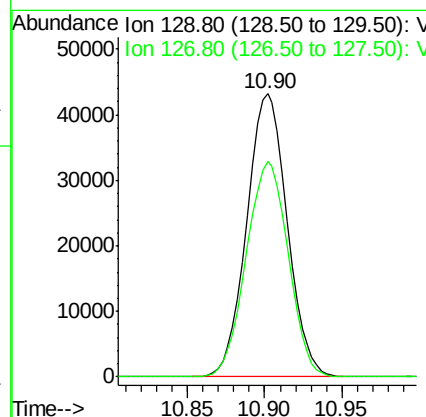
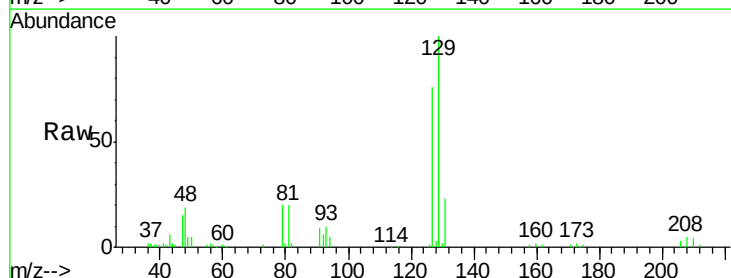
Manual Integrations
APPROVED

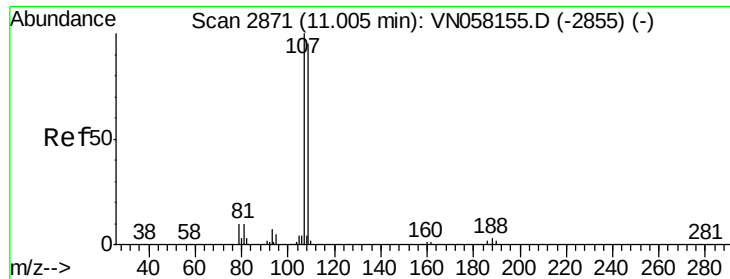
MMDadoda
9/27/2019 11:19:30 AM



#60
Dibromochloromethane
Concen: 16.897 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN058388.D
Acq: 26 Sep 2019 16:04

Tgt Ion: 129 Resp: 78789
Ion Ratio Lower Upper
129 100
127 78.9 38.7 116.1





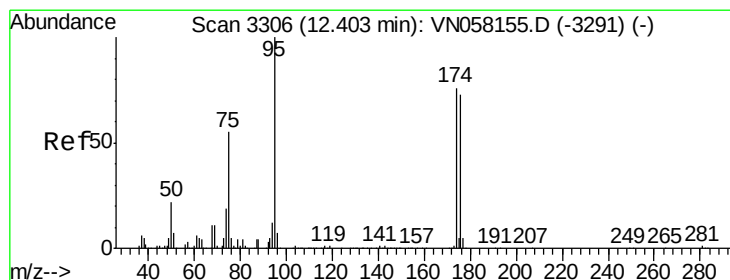
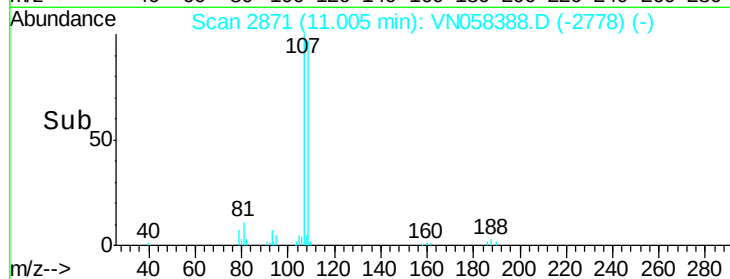
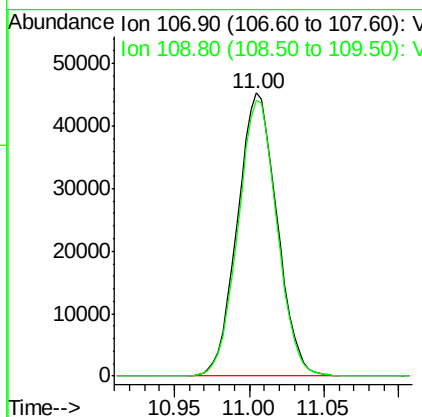
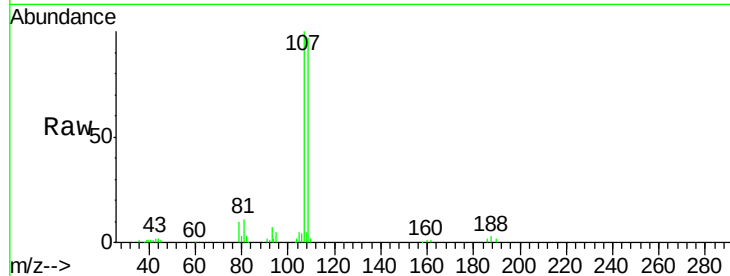
#61
 1,2-Dibromoethane
 Concen: 18.552 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. 0.00 min
 Lab File: VN058388.D
 Acq: 26 Sep 2019 16:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VN09216WBSD02

Tot Ion	Ratio	Lower	Upper
107	100		
109	96.1	75.4	113.2

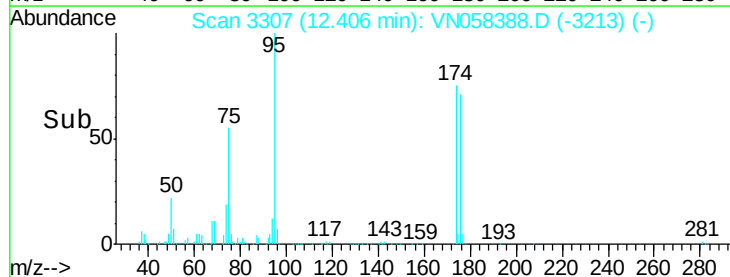
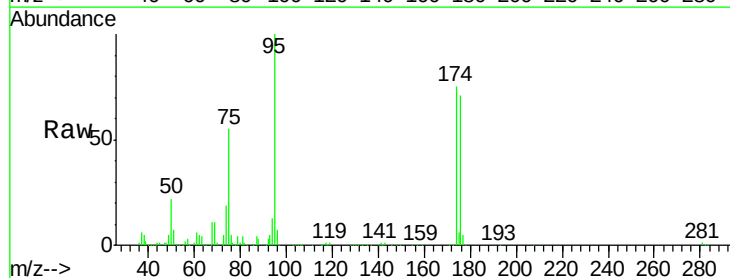
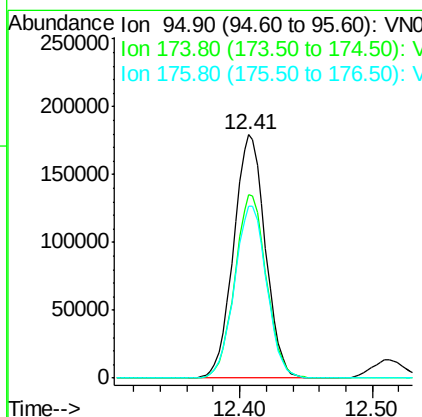
Manual Integrations
 APPROVED

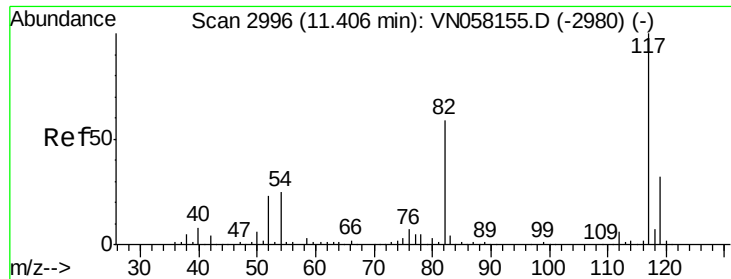
MMDadoda
 9/27/2019 11:19:30 AM



#62
 4-Bromofluorobenzene
 Concen: 42.723 ug/l
 RT: 12.41 min Scan# 3307
 Delta R.T. 0.00 min
 Lab File: VN058388.D
 Acq: 26 Sep 2019 16:04

Tgt Ion	Ratio	Lower	Upper
95	100		
174	75.1	0.0	152.2
176	71.9	0.0	148.0





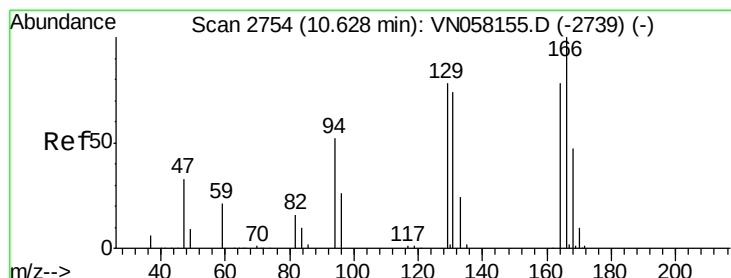
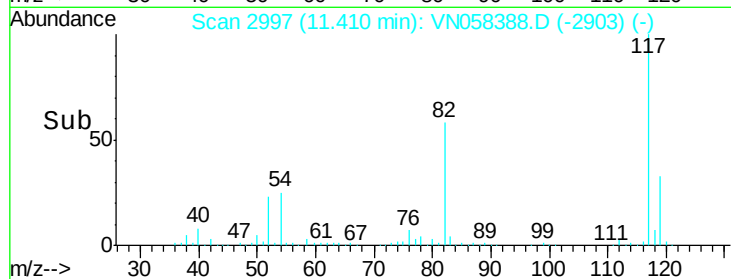
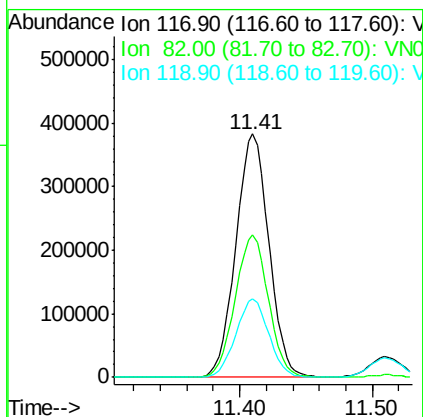
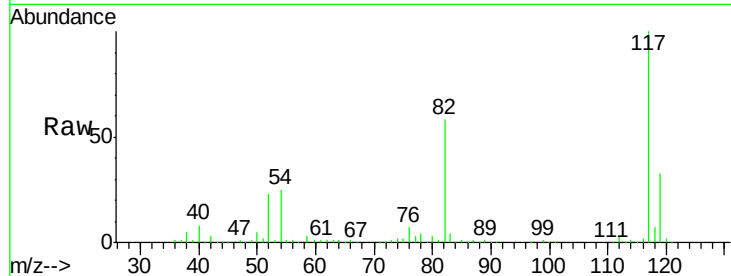
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN058388.D
Acq: 26 Sep 2019 16:04

Instrument :
MSVOA_N
ClientSampleId :
VN09216WBSD02

Tot Ion	Ratio	Lower	Upper
117	100		
82	58.3	46.9	70.3
119	32.5	25.3	37.9

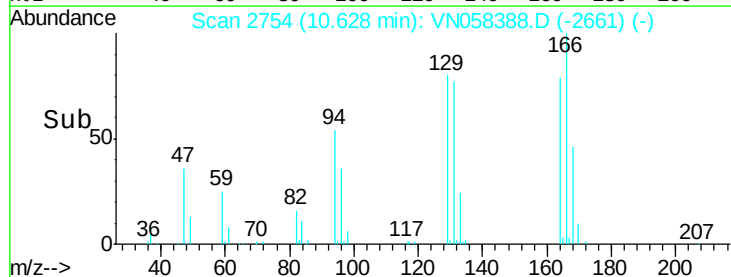
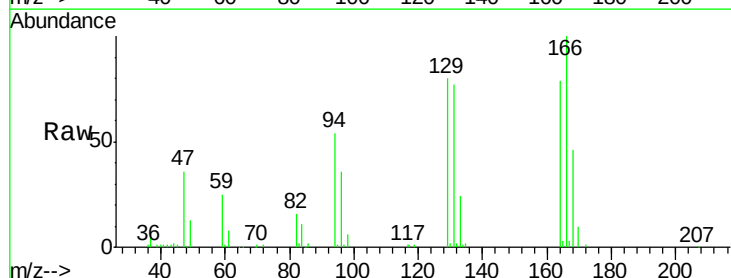
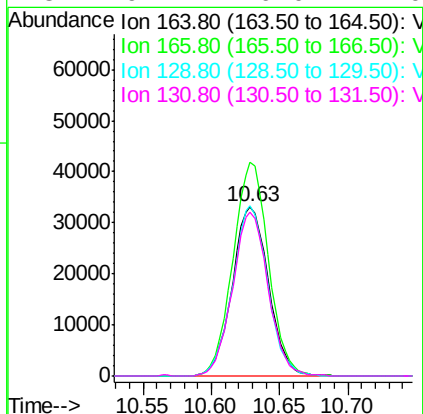
Manual Integrations
APPROVED

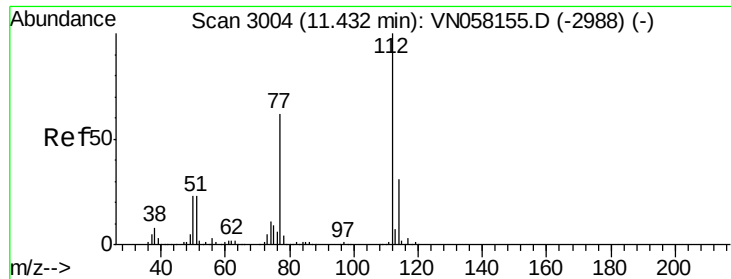
MMDadoda
9/27/2019 11:19:30 AM



#64
Tetrachloroethene
Concen: 18.942 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. 0.00 min
Lab File: VN058388.D
Acq: 26 Sep 2019 16:04

Tgt Ion	Ratio	Lower	Upper
164	100		
166	126.2	102.2	153.4
129	100.7	79.6	119.4
131	97.1	76.0	114.0





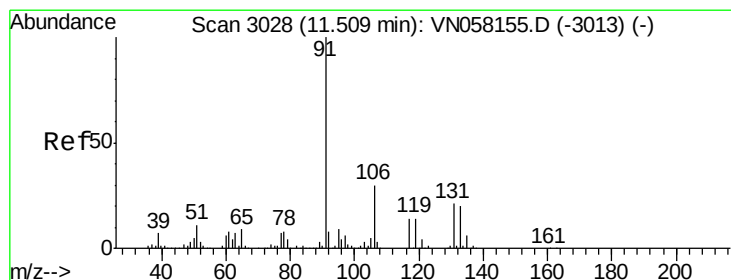
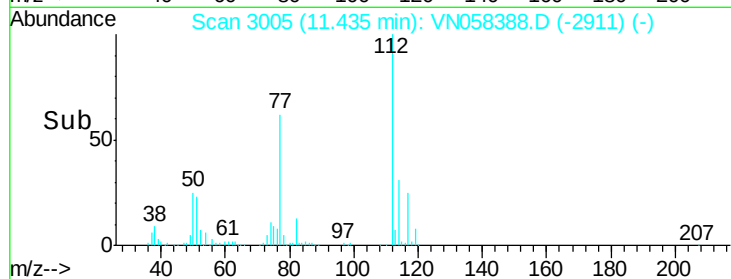
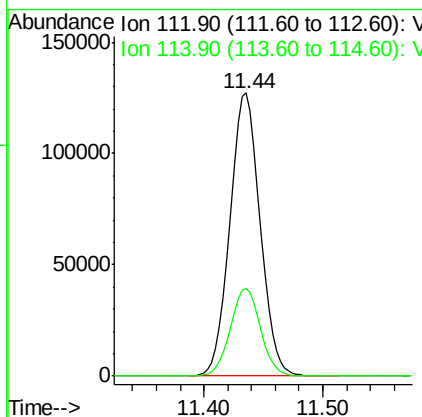
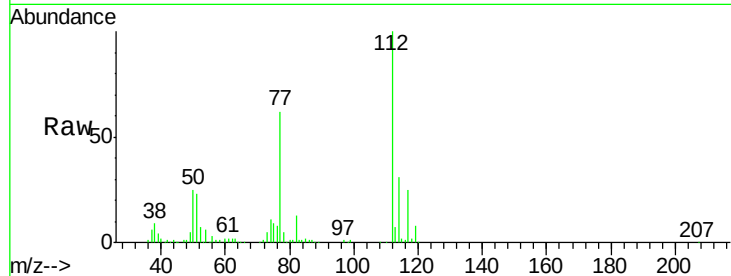
#65
Chlorobenzene
Concen: 19.156 ug/l
RT: 11.44 min Scan# 3005
Delta R.T. 0.00 min
Lab File: VN058388.D
Acq: 26 Sep 2019 16:04

Instrument :
MSVOA_N
ClientSampleId :
VN09216WBSD02

Tot Ion:112 Resp: 223631
Ion Ratio Lower Upper
112 100
114 31.1 25.1 37.7

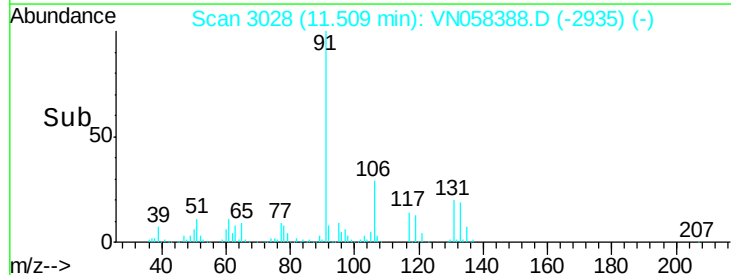
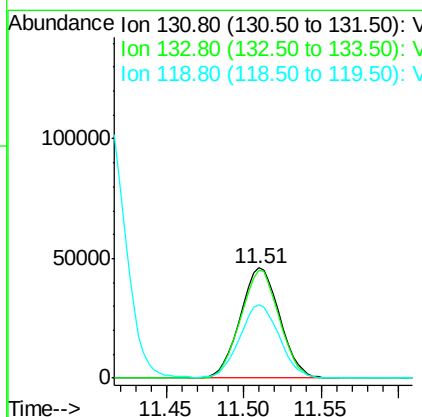
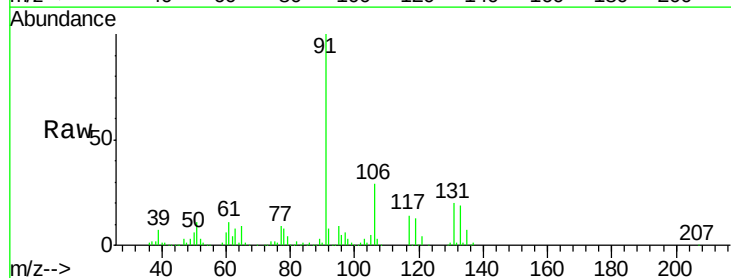
Manual Integrations
APPROVED

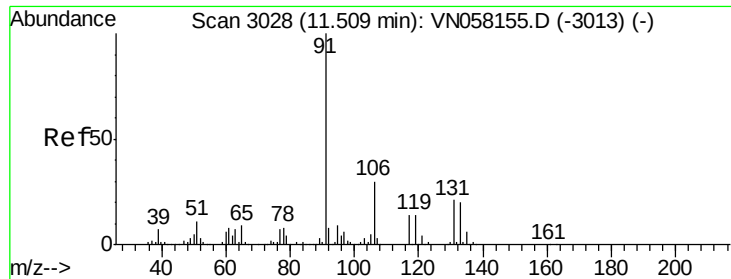
MMDadoda
9/27/2019 11:19:30 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 19.404 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN058388.D
Acq: 26 Sep 2019 16:04

Tgt Ion:131 Resp: 82138
Ion Ratio Lower Upper
131 100
133 95.4 47.8 143.3
119 66.7 33.1 99.3





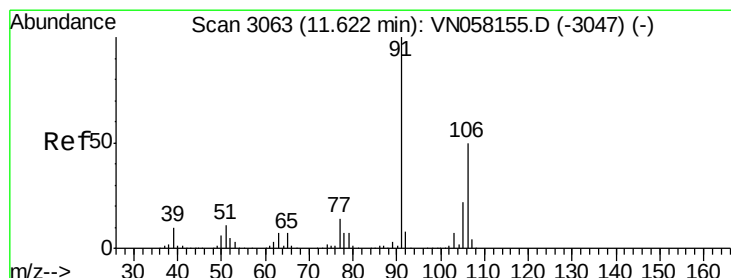
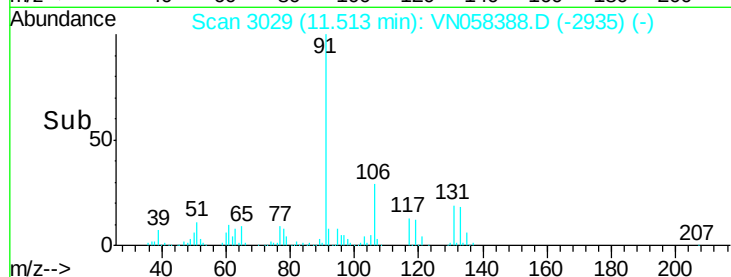
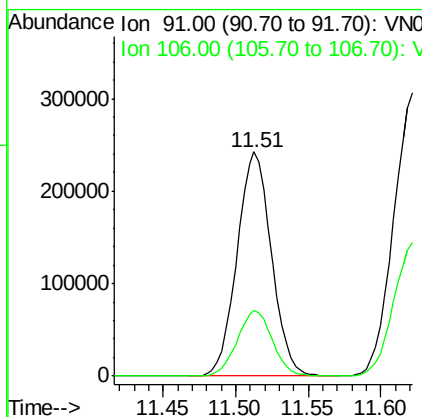
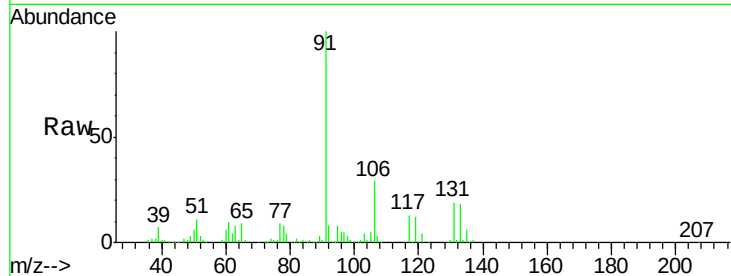
#67
Ethyl Benzene
Concen: 19.956 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN058388.D
Acq: 26 Sep 2019 16:04

Instrument :
MSVOA_N
ClientSampleId :
VN09216WBSD02

Tot Ion	Ion	Ratio	Resp	Lower	Upper
91	100		399182		
106	29.2	24.0	36.0		

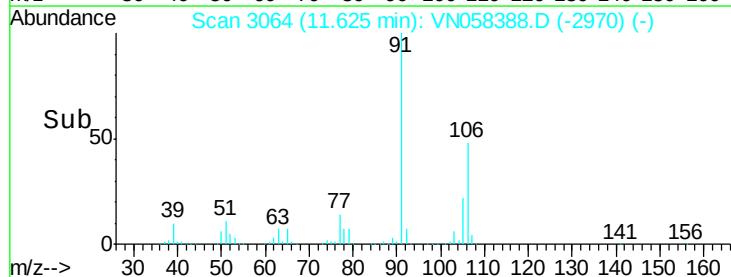
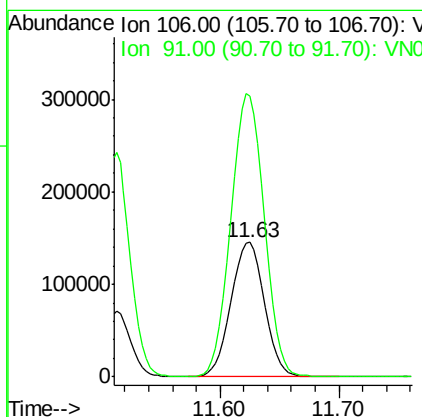
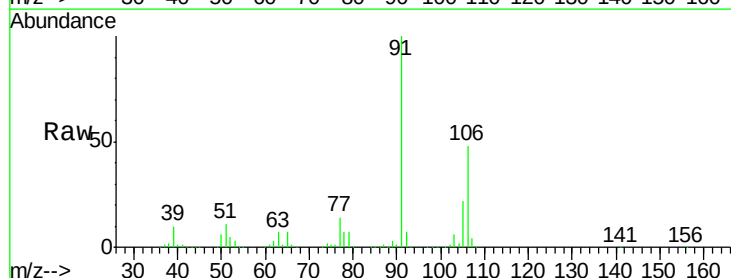
Manual Integrations
APPROVED

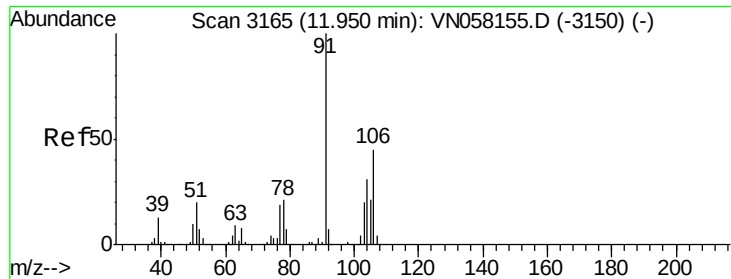
MMDadoda
9/27/2019 11:19:30 AM



#68
m/p-Xylenes
Concen: 37.704 ug/l
RT: 11.63 min Scan# 3064
Delta R.T. 0.00 min
Lab File: VN058388.D
Acq: 26 Sep 2019 16:04

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
106	100		284055		
91	209.5	163.6	245.4		





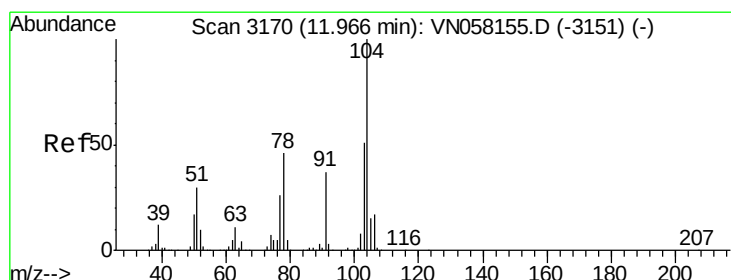
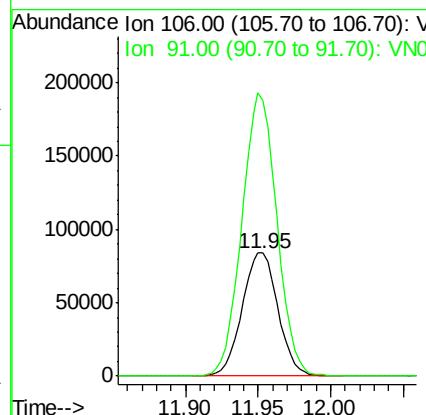
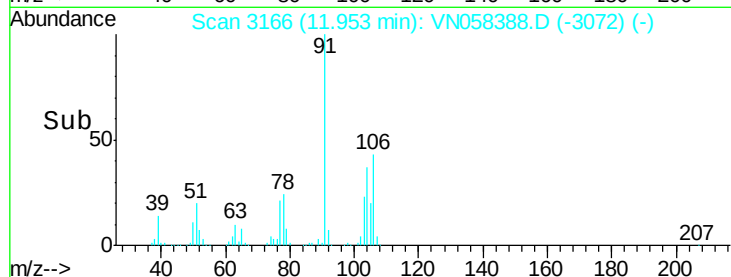
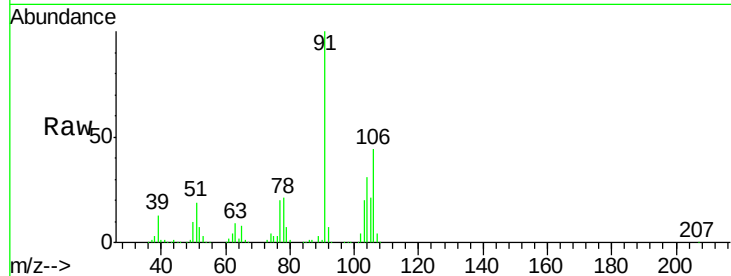
#69
o-Xylene
Concen: 19.400 ug/l
RT: 11.95 min Scan# 3166
Delta R.T. 0.00 min
Lab File: VN058388.D
Acq: 26 Sep 2019 16:04

Instrument :
MSVOA_N
ClientSampleId :
VN09216WBSD02

Tot Ion:106 Resp: 143713
Ion Ratio Lower Upper
106 100
91 224.9 111.8 335.3

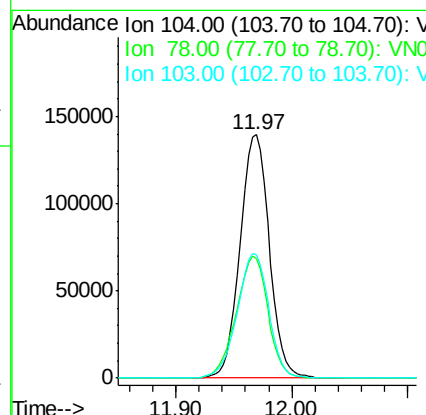
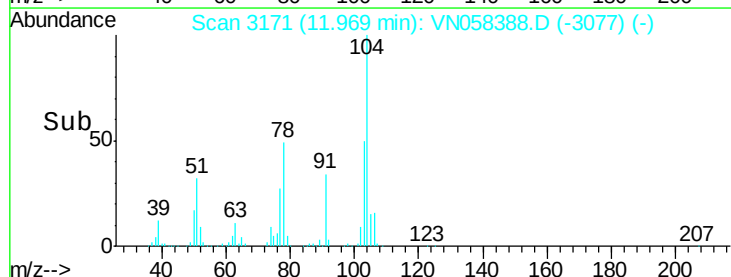
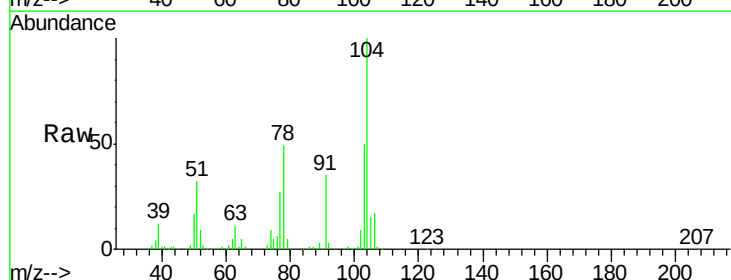
Manual Integrations
APPROVED

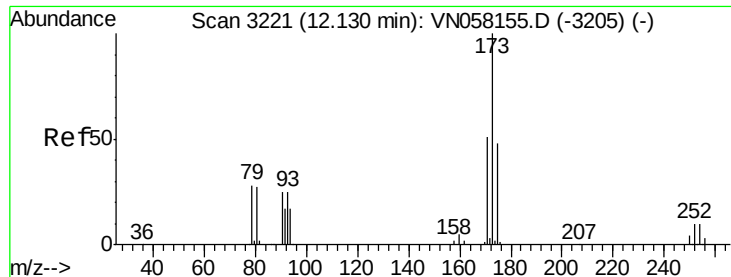
MMDadoda
9/27/2019 11:19:30 AM



#70
Styrene
Concen: 19.192 ug/l
RT: 11.97 min Scan# 3171
Delta R.T. 0.00 min
Lab File: VN058388.D
Acq: 26 Sep 2019 16:04

Tgt Ion:104 Resp: 244963
Ion Ratio Lower Upper
104 100
78 54.4 41.8 62.8
103 55.0 44.2 66.2





#71

Bromoform

Concen: 16.899 ug/l

RT: 12.13 min Scan# 3222

Delta R.T. 0.00 min

Lab File: VN058388.D

Acq: 26 Sep 2019 16:04

Instrument :

MSVOA_N

ClientSampleId :

VN09216WBSD02

Tot Ion:173 Resp: 44987

Ion Ratio Lower Upper

173 100

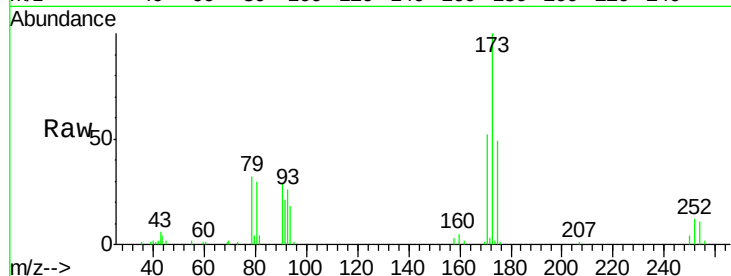
175 47.3 24.2 72.6

254 0.0 0.1 0.1#

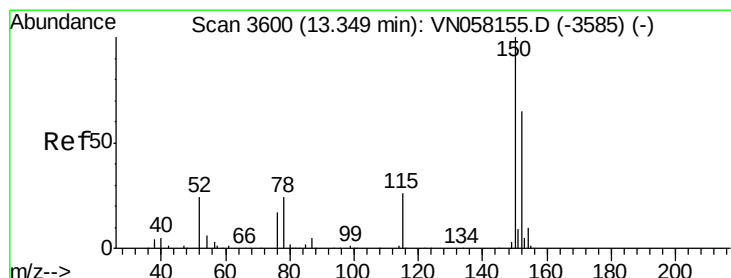
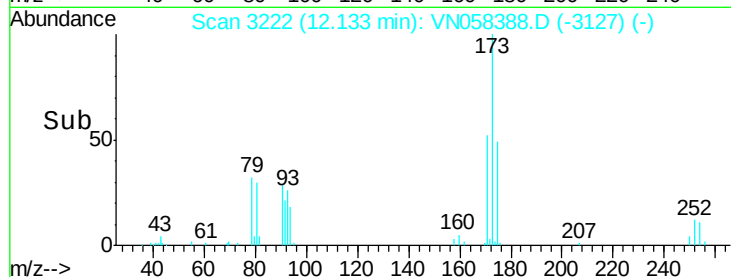
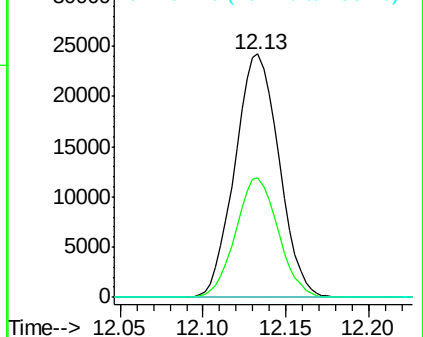
Manual Integrations
APPROVED

MMDadoda

9/27/2019 11:19:30 AM



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN058388.D

Acq: 26 Sep 2019 16:04

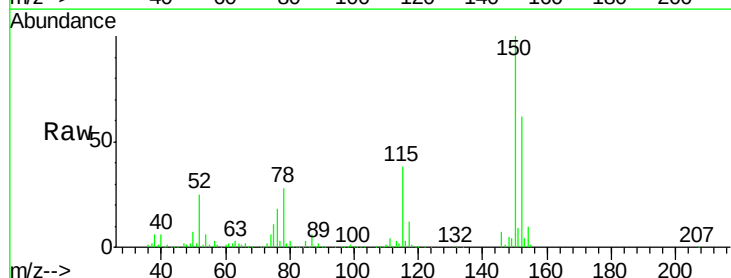
Tgt Ion:152 Resp: 299317

Ion Ratio Lower Upper

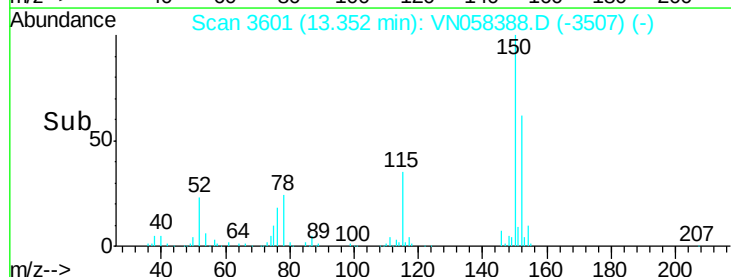
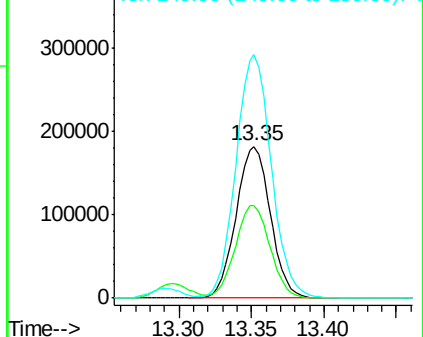
152 100

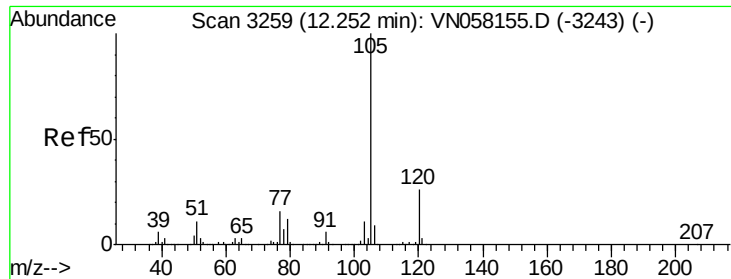
115 62.3 30.1 90.3

150 165.9 0.0 346.4



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: 21.877 ug/l

RT: 12.25 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN058388.D

Acq: 26 Sep 2019 16:04

Instrument :

MSVOA_N

ClientSampleId :

VN09216WBSD02

Tot Ion: 105 Resp: 409876

Ion Ratio Lower Upper

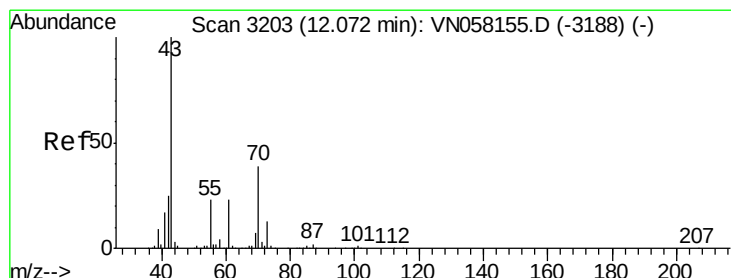
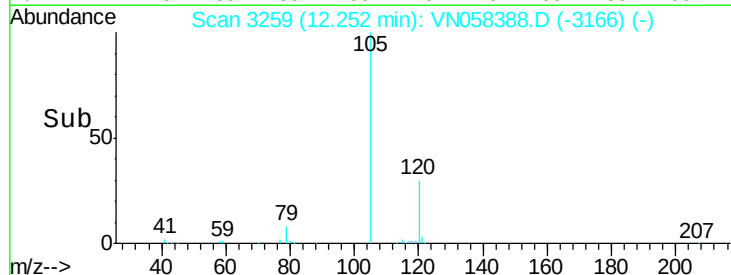
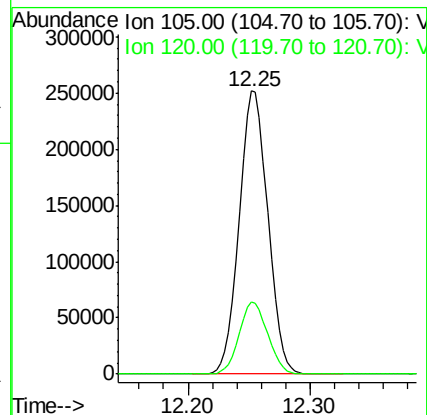
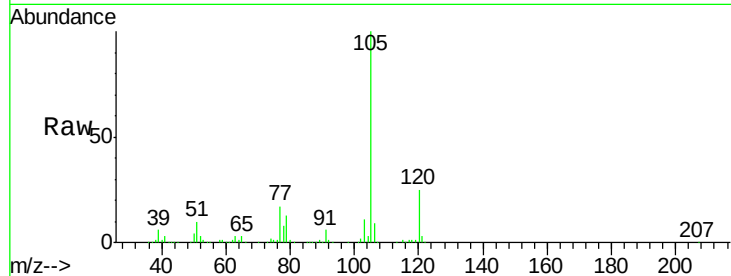
105 100

120 25.5 12.8 38.3

Manual Integrations
APPROVED

MMDadoda

9/27/2019 11:19:30 AM



#74

N-ethyl acetate

Concen: 22.915 ug/l

RT: 12.08 min Scan# 3204

Delta R.T. 0.00 min

Lab File: VN058388.D

Acq: 26 Sep 2019 16:04

Tgt Ion: 43 Resp: 179603

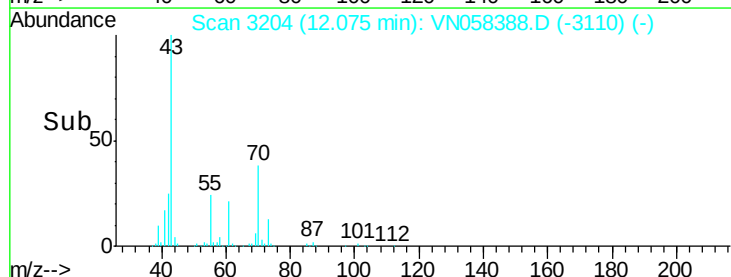
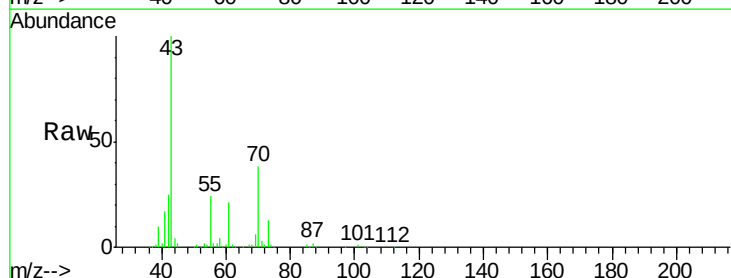
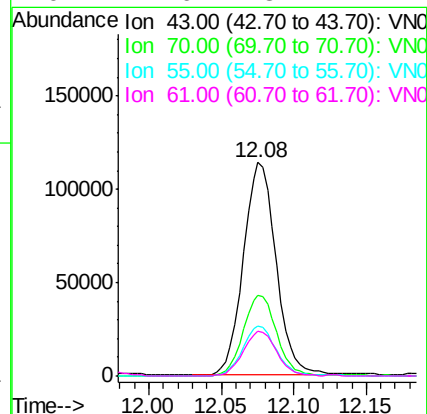
Ion Ratio Lower Upper

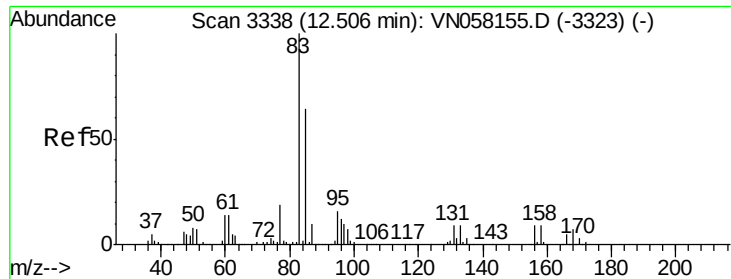
43 100

70 39.1 31.0 46.6

55 24.1 18.5 27.7

61 21.6 18.2 27.2





#75

1,1,2,2-Tetrachloroethane

Concen: 22.274 ug/l

RT: 12.51 min Scan# 3340

Delta R.T. 0.01 min

Lab File: VN058388.D

Acq: 26 Sep 2019 16:04

Instrument :

MSVOA_N

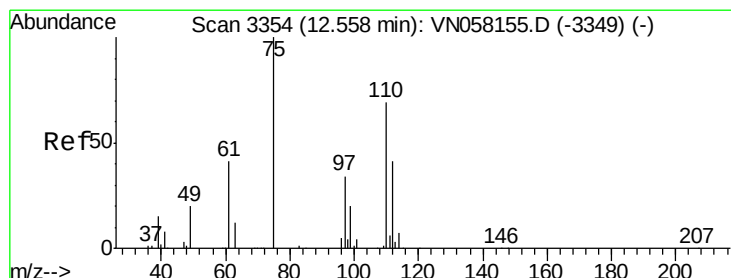
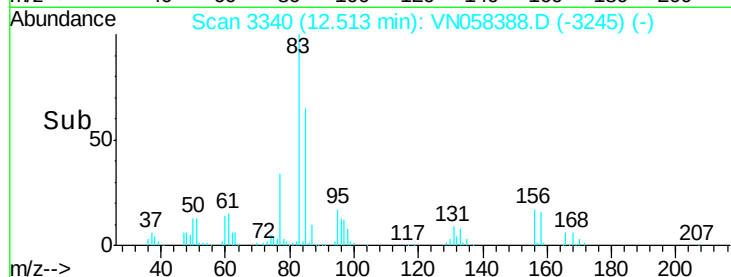
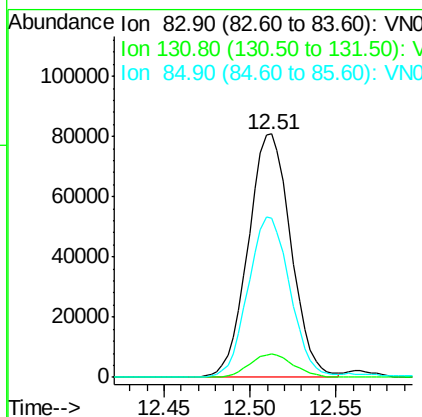
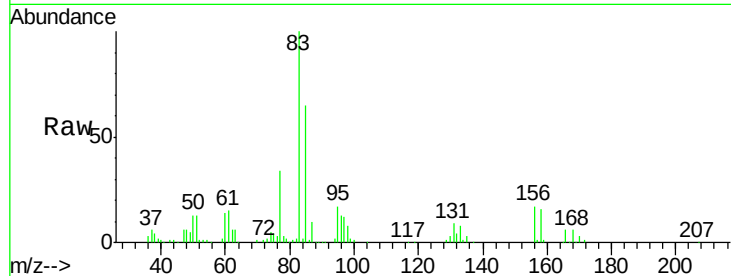
ClientSampleId :

VN09216WBSD02

Tot Ion:	83	Resp:	139745
Ion Ratio	Lower	Upper	
83	100		
131	9.8	4.8	14.3
85	64.6	31.9	95.5

Manual Integrations
APPROVED

MMDadoda
9/27/2019 11:19:30 AM



#76

1,2,3-Trichloropropane

Concen: 22.707 ug/l m

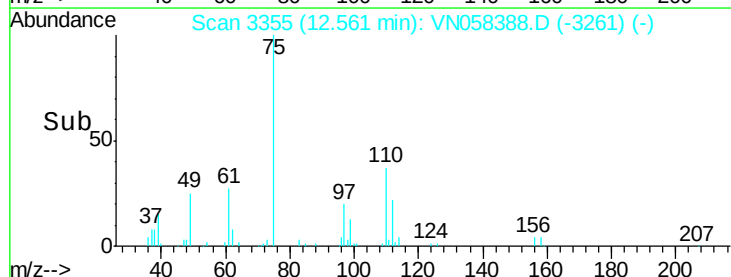
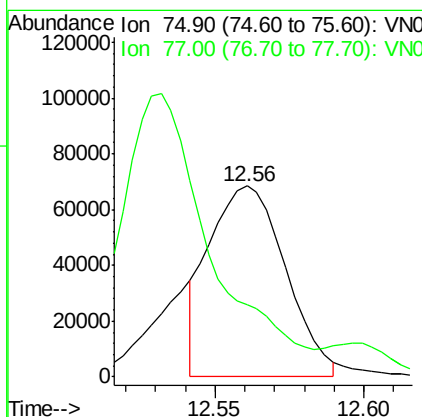
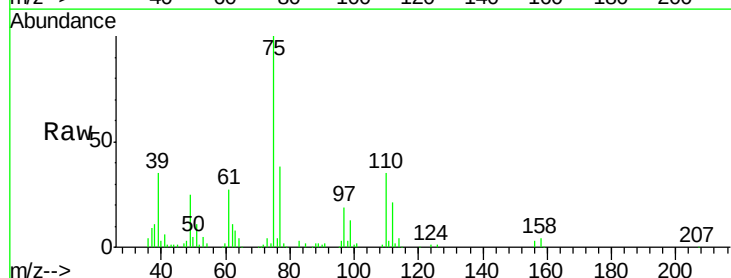
RT: 12.56 min Scan# 3355

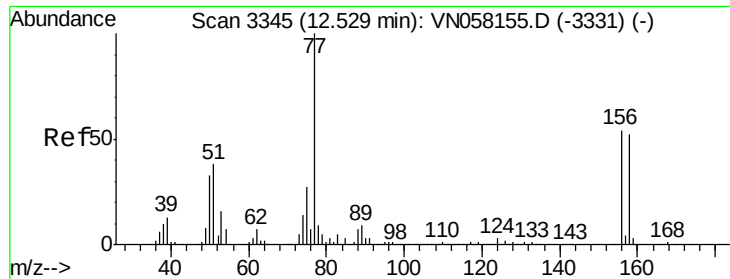
Delta R.T. 0.00 min

Lab File: VN058388.D

Acq: 26 Sep 2019 16:04

Tgt Ion:	75	Resp:	121636
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 19.917 ug/l

RT: 12.53 min Scan# 3346

Delta R.T. 0.00 min

Lab File: VN058388.D

Acq: 26 Sep 2019 16:04

Instrument :

MSVOA_N

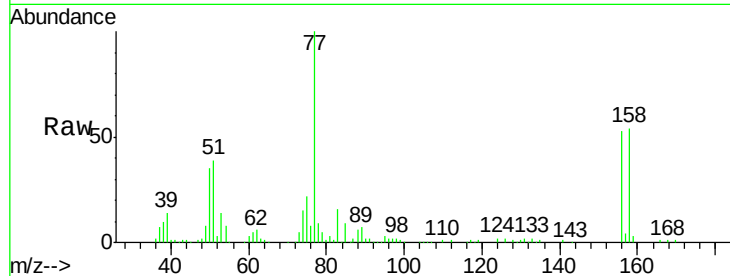
ClientSampleId :

VN09216WBSD02

Tot Ion	Ratio	Lower	Upper
156	100		
77	229.9	111.7	335.1
158	99.4	47.9	143.8

Manual Integrations
APPROVED

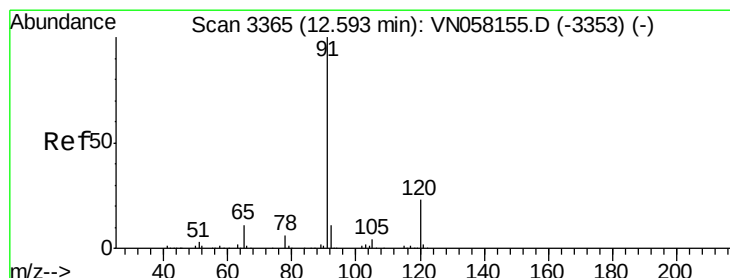
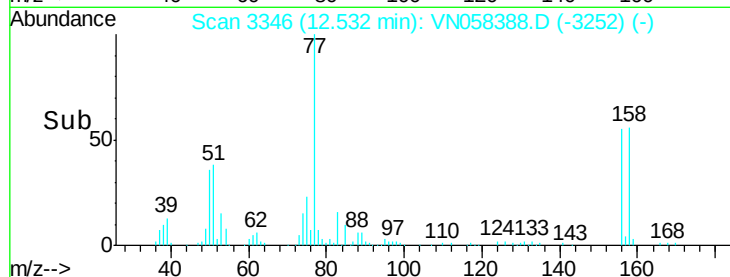
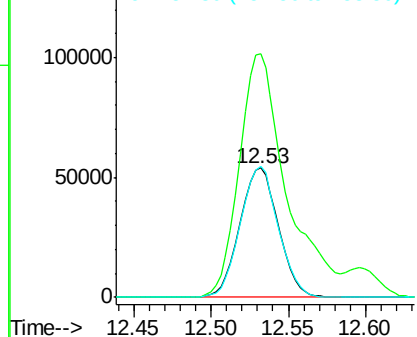
MMDadoda
9/27/2019 11:19:30 AM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 21.868 ug/l

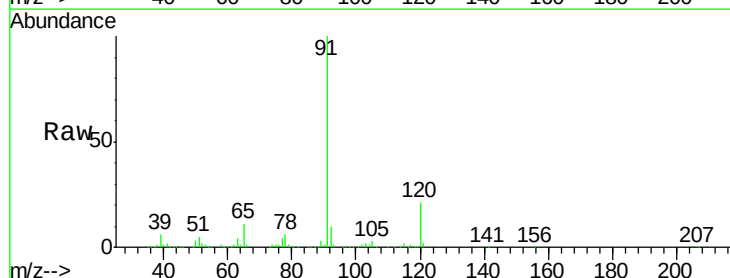
RT: 12.60 min Scan# 3366

Delta R.T. 0.00 min

Lab File: VN058388.D

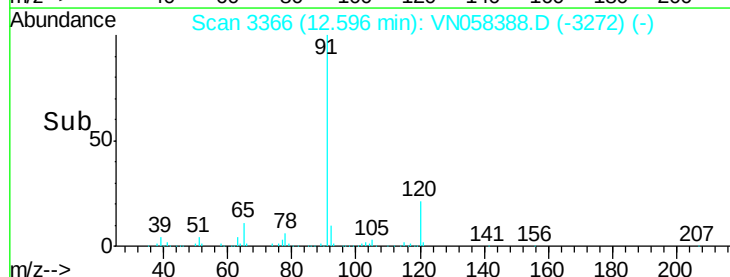
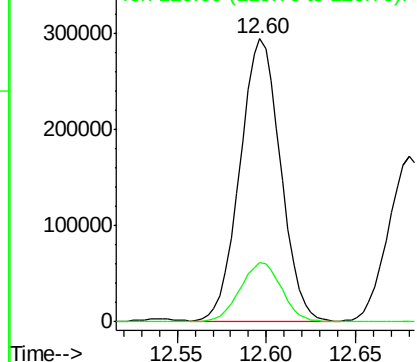
Acq: 26 Sep 2019 16:04

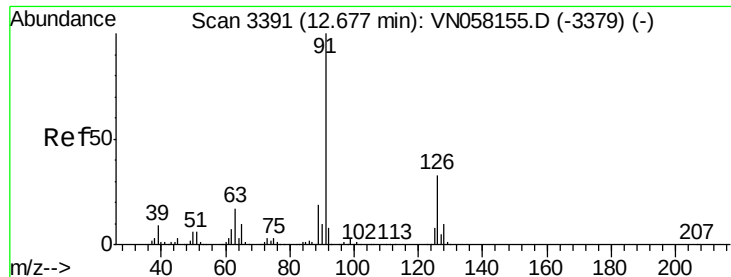
Tgt Ion	Ratio	Lower	Upper
91	100		
120	21.6	11.1	33.3



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 21.268 ug/l

RT: 12.68 min Scan# 3392

Delta R.T. 0.00 min

Lab File: VN058388.D

Acq: 26 Sep 2019 16:04

Instrument :

MSVOA_N

ClientSampleId :

VN09216WBSD02

Tot Ion: 91 Resp: 282980

Ion Ratio Lower Upper

91 100

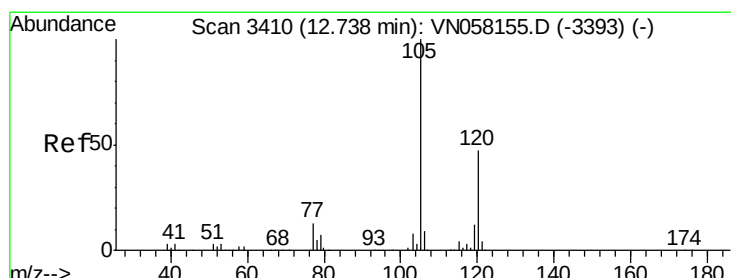
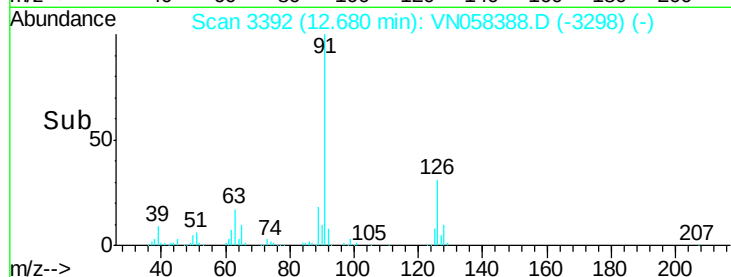
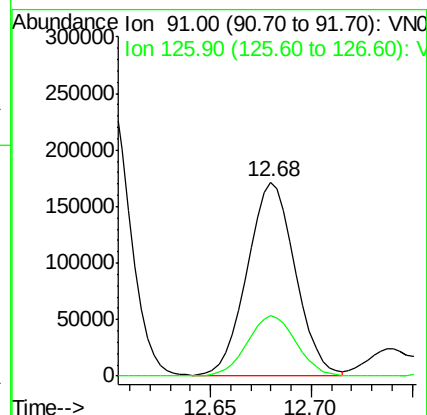
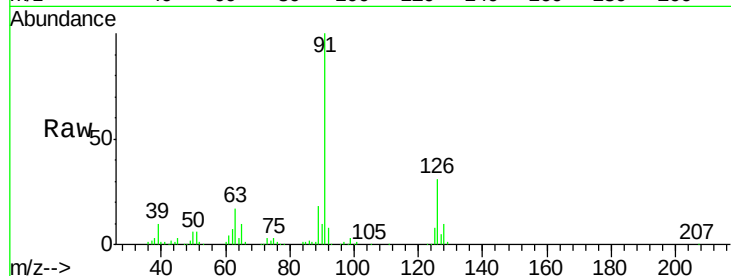
126 32.2 16.4 49.1

Manual Integrations

APPROVED

MMDadoda

9/27/2019 11:19:30 AM



#80

1,3,5-Trimethylbenzene

Concen: 21.429 ug/l

RT: 12.74 min Scan# 3410

Delta R.T. 0.00 min

Lab File: VN058388.D

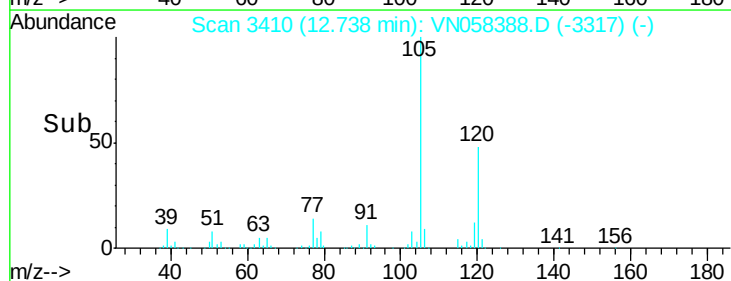
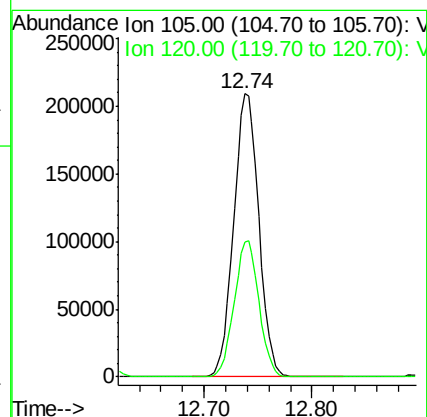
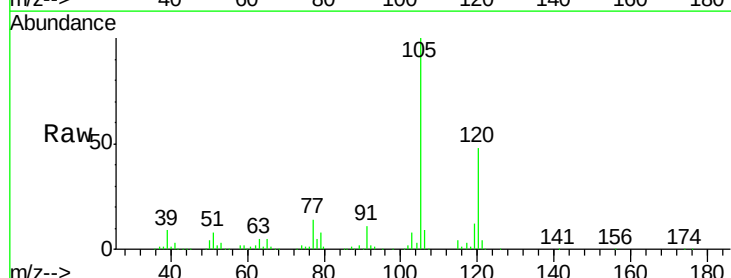
Acq: 26 Sep 2019 16:04

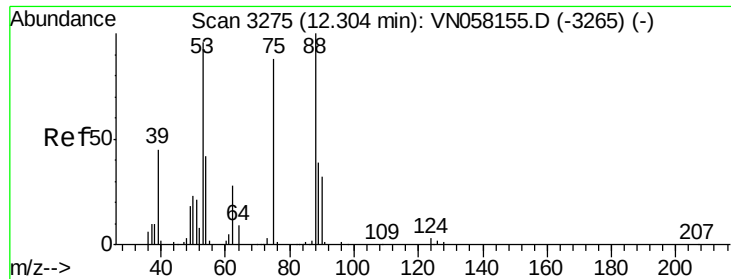
Tgt Ion: 105 Resp: 339498

Ion Ratio Lower Upper

105 100

120 47.3 23.4 70.0





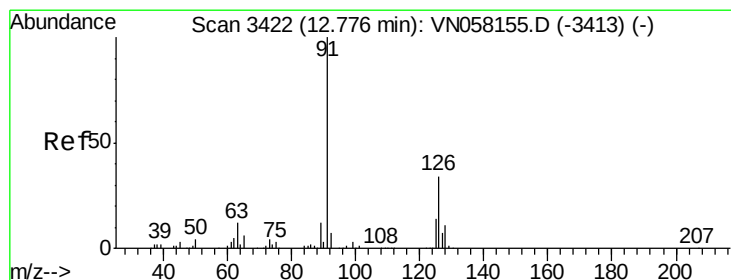
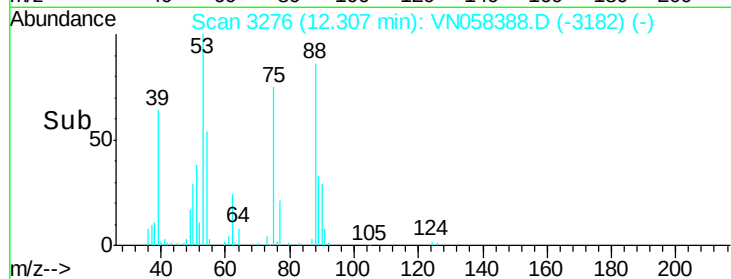
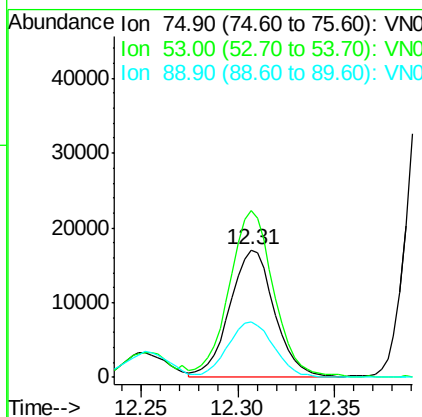
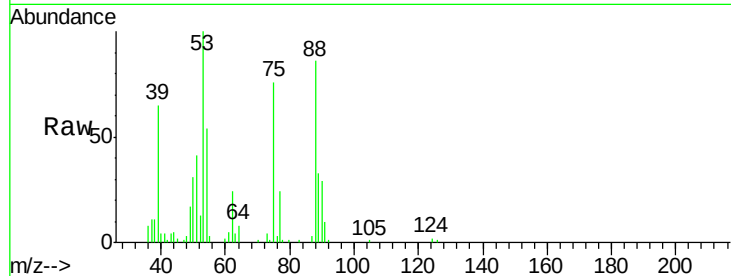
#81
trans-1,4-Dichloro-2-butene
Concen: 19.306 ug/l
RT: 12.31 min Scan# 3276
Delta R.T. 0.00 min
Lab File: VN058388.D
Acq: 26 Sep 2019 16:04

Instrument :
MSVOA_N
ClientSampleId :
VN09216WBSD02

Tot Ion	Ratio	Lower	Upper
75	100		
53	130.2	90.1	135.1
89	44.7	36.2	54.2

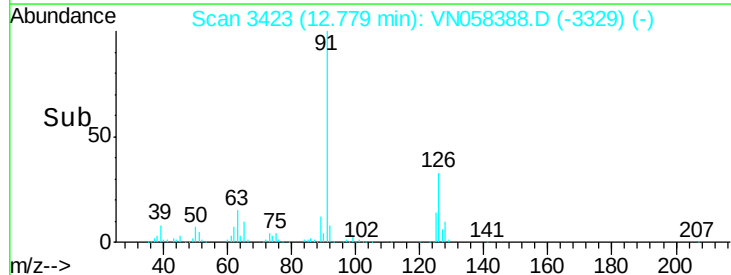
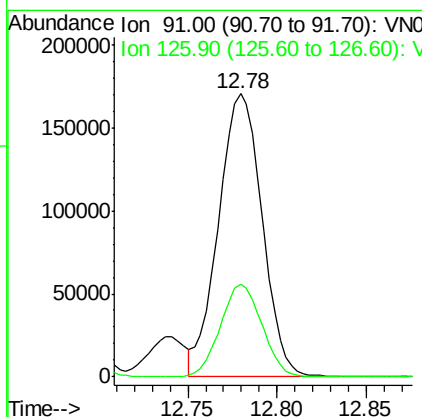
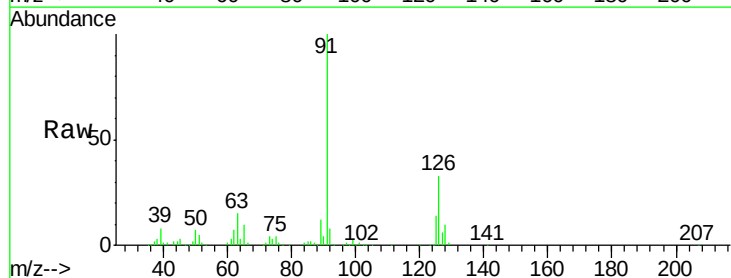
Manual Integrations
APPROVED

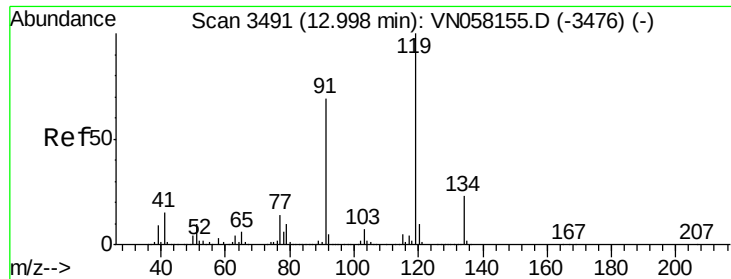
MMDadoda
9/27/2019 11:19:30 AM



#82
4-Chlorotoluene
Concen: 20.482 ug/l
RT: 12.78 min Scan# 3423
Delta R.T. 0.00 min
Lab File: VN058388.D
Acq: 26 Sep 2019 16:04

Tgt Ion	Ratio	Lower	Upper
91	100		
126	31.6	15.7	47.1





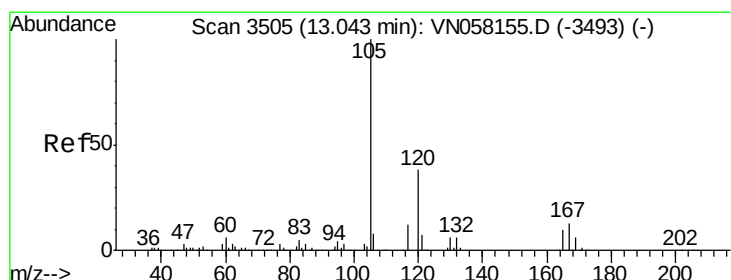
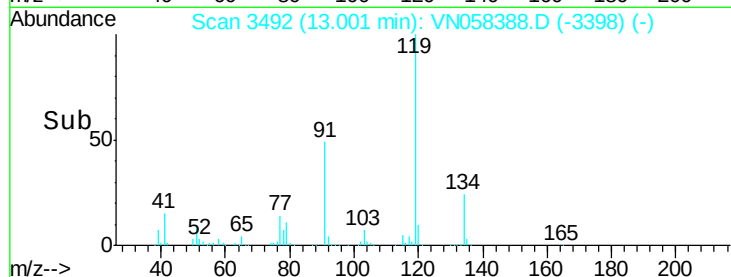
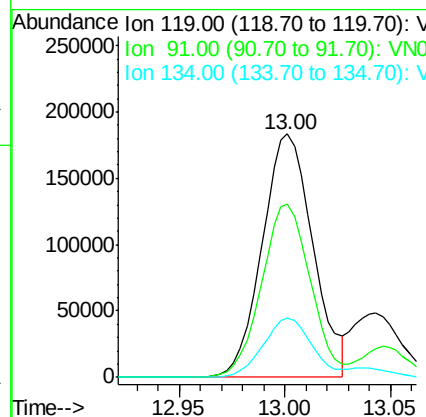
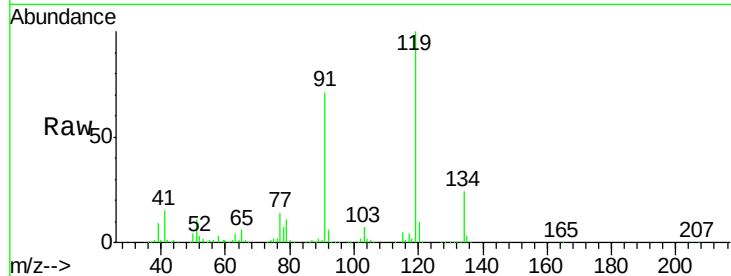
#83
 tert-Butylbenzene
 Concen: 21.690 ug/l
 RT: 13.00 min Scan# 3492
 Delta R.T. 0.00 min
 Lab File: VN058388.D
 Acq: 26 Sep 2019 16:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VN09216WBSD02

Tot Ion	Ratio	Lower	Upper
119	100		
91	68.8	33.8	101.3
134	23.4	11.6	34.8

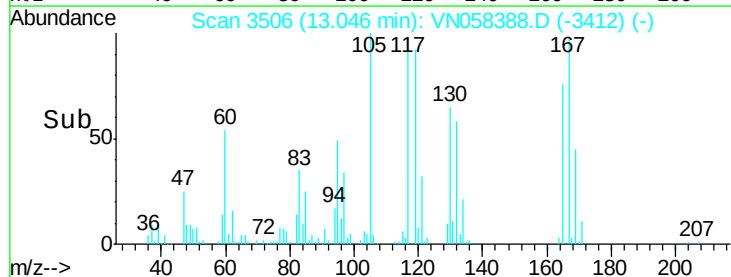
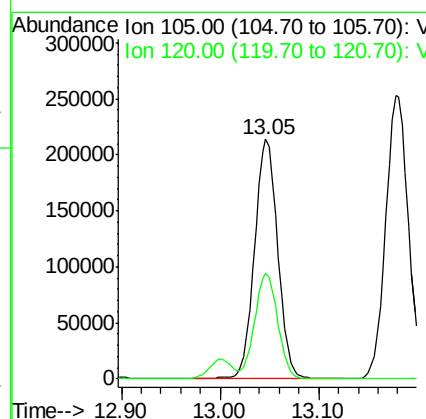
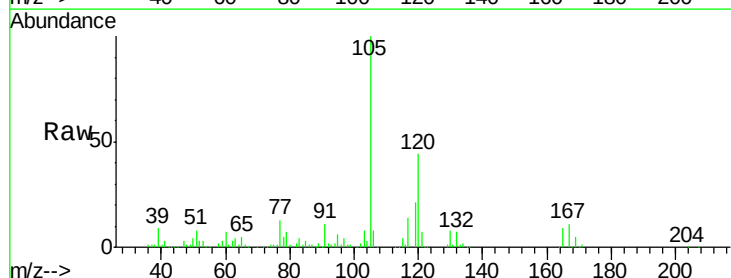
Manual Integrations
 APPROVED

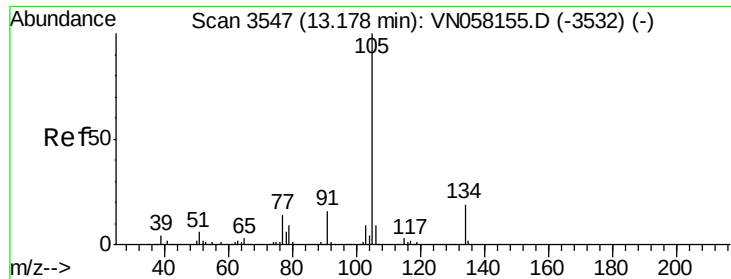
MMDadoda
 9/27/2019 11:19:30 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 21.966 ug/l
 RT: 13.05 min Scan# 3506
 Delta R.T. 0.00 min
 Lab File: VN058388.D
 Acq: 26 Sep 2019 16:04

Tgt Ion	Ratio	Lower	Upper
105	100		
120	43.9	22.1	66.5





#85

sec-Butylbenzene

Concen: 21.727 ug/l

RT: 13.18 min Scan# 3547

Delta R.T. 0.00 min

Lab File: VN058388.D

Acq: 26 Sep 2019 16:04

Instrument :

MSVOA_N

ClientSampleId :

VN09216WBSD02

Tot Ion:105 Resp: 401406

Ion Ratio Lower Upper

105 100

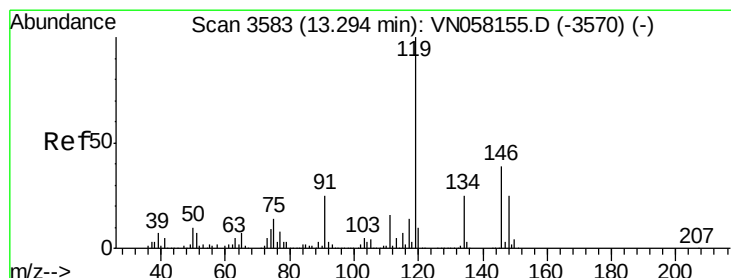
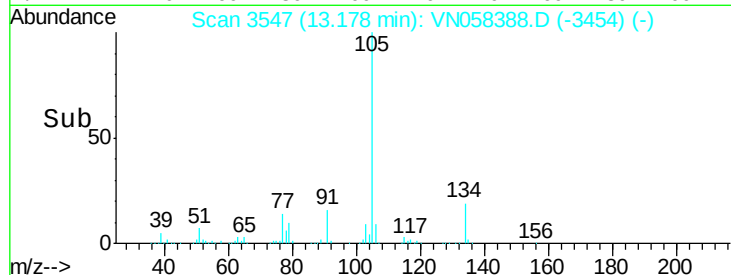
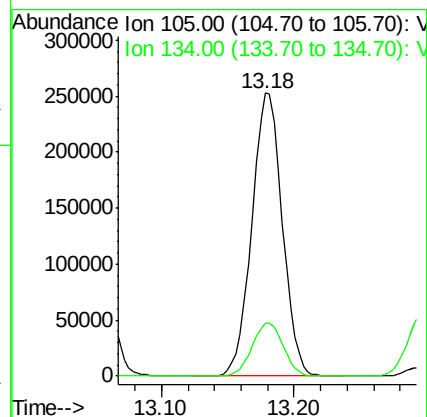
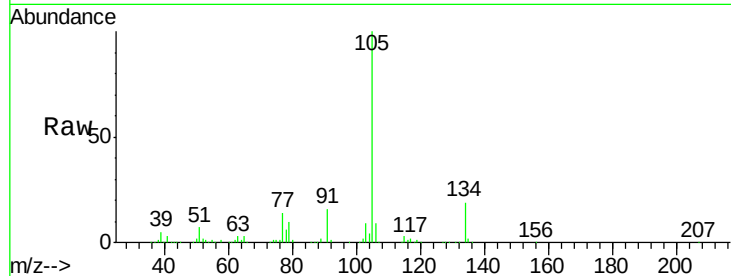
134 19.1 9.5 28.5

Manual Integrations

APPROVED

MMDadoda

9/27/2019 11:19:30 AM



#86

p-Isopropyltoluene

Concen: 21.772 ug/l

RT: 13.30 min Scan# 3584

Delta R.T. 0.00 min

Lab File: VN058388.D

Acq: 26 Sep 2019 16:04

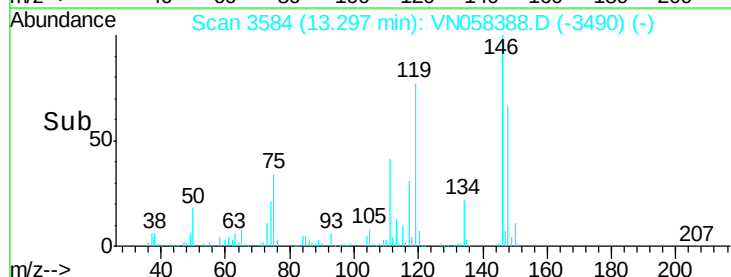
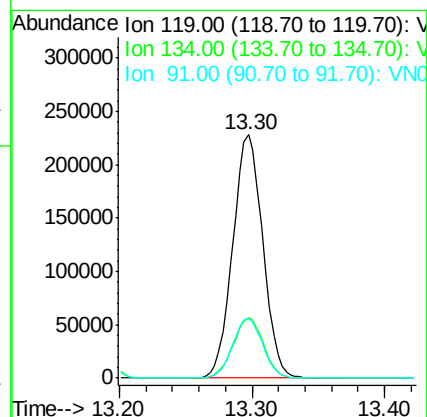
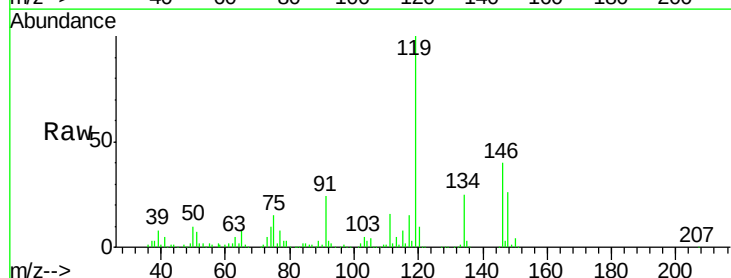
Tgt Ion:119 Resp: 357596

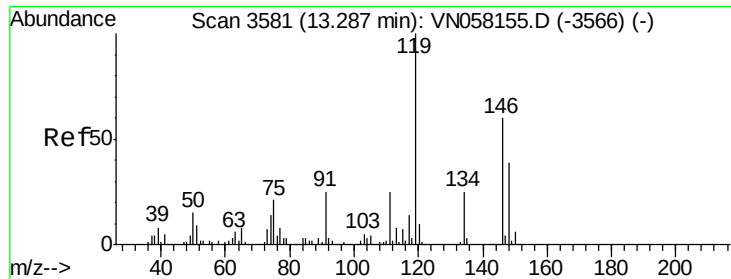
Ion Ratio Lower Upper

119 100

134 25.0 12.7 38.0

91 24.3 12.3 36.8





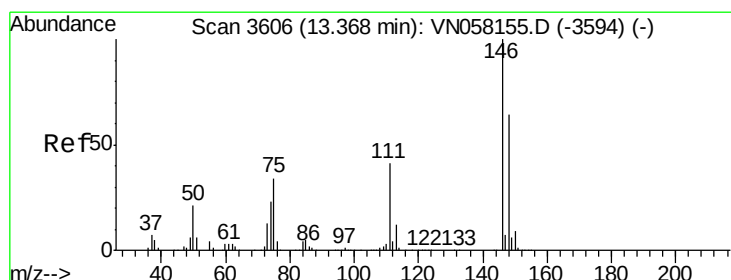
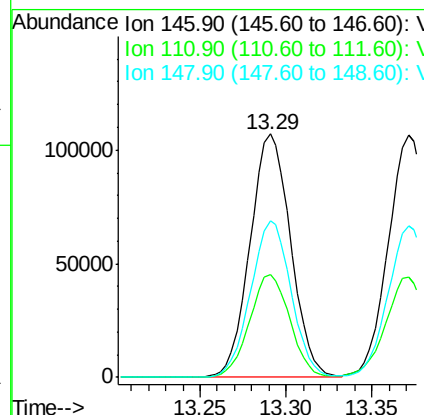
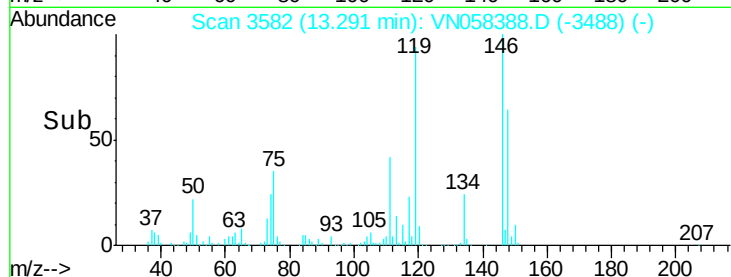
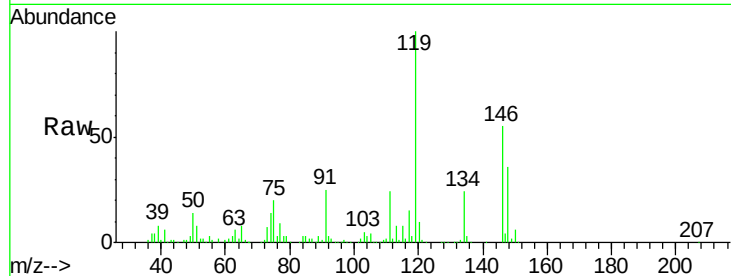
#87
 1,3-Dichlorobenzene
 Concen: 20.379 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN058388.D
 Acq: 26 Sep 2019 16:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VN09216WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
146	100	175415		
111	42.1	20.9	62.8	
148	64.1	32.0	96.2	

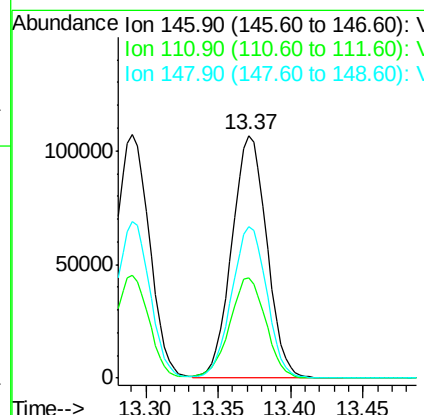
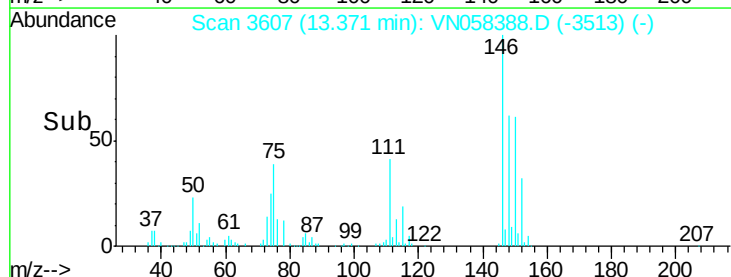
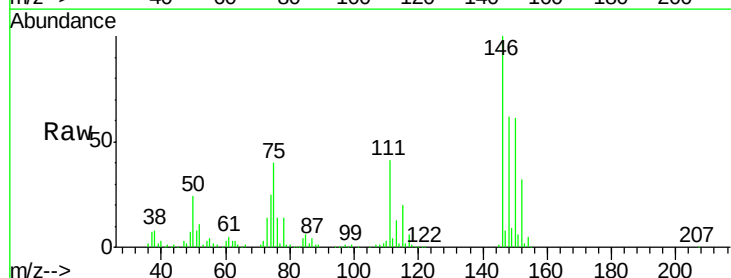
Manual Integrations
 APPROVED

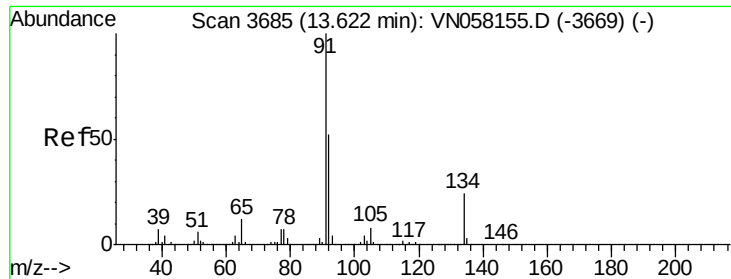
MMDadoda
 9/27/2019 11:19:30 AM



#88
 1,4-Dichlorobenzene
 Concen: 20.269 ug/l
 RT: 13.37 min Scan# 3607
 Delta R.T. 0.00 min
 Lab File: VN058388.D
 Acq: 26 Sep 2019 16:04

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	178120		
111	42.5	20.5	61.5	
148	62.9	31.9	95.5	





#89

n-Butylbenzene

Concen: 20.919 ug/l

RT: 13.62 min Scan# 3685

Delta R.T. 0.00 min

Lab File: VN058388.D

Acq: 26 Sep 2019 16:04

Instrument :

MSVOA_N

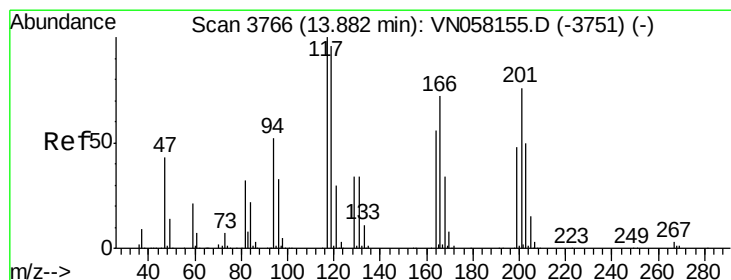
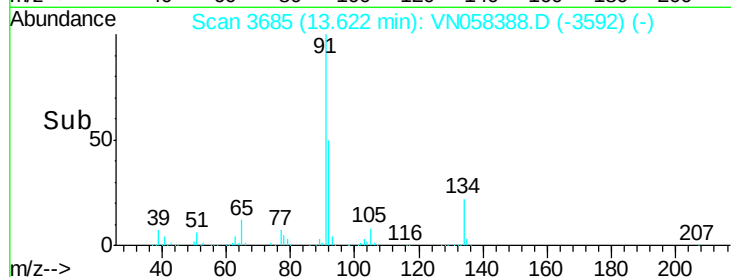
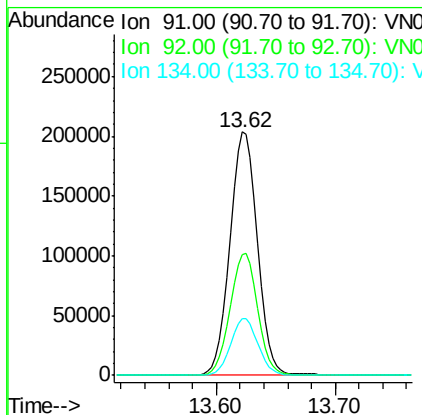
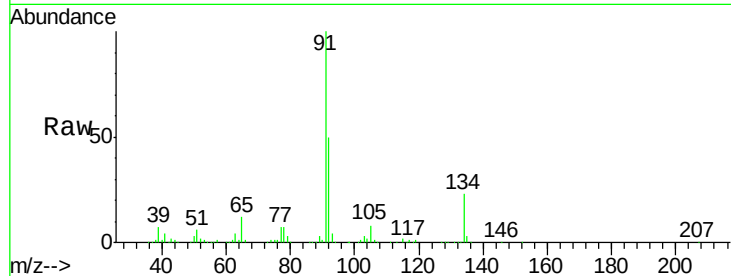
ClientSampleId :

VN09216WBSD02

Tot Ion:	91	Resp:	325749
Ion	Ratio	Lower	Upper
91	100		
92	50.1	25.7	77.0
134	23.2	11.8	35.4

Manual Integrations
APPROVED

MMDadoda
9/27/2019 11:19:30 AM



#90

Hexachloroethane

Concen: 19.049 ug/l

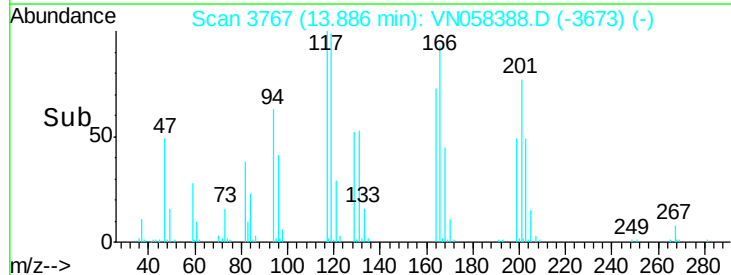
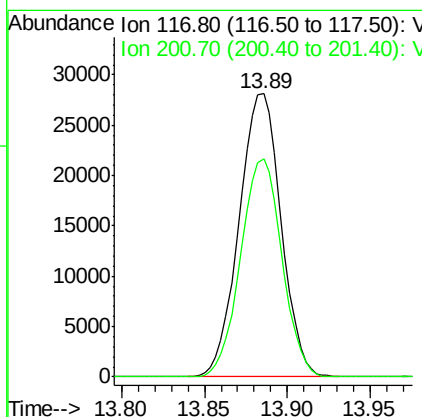
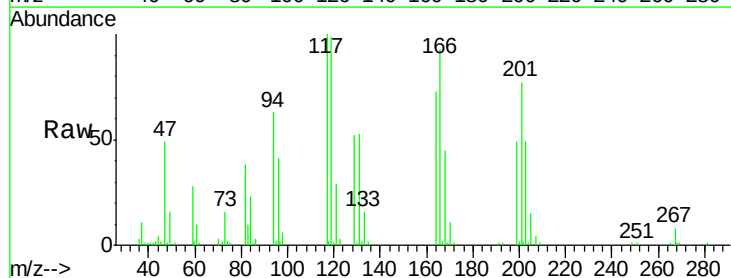
RT: 13.89 min Scan# 3767

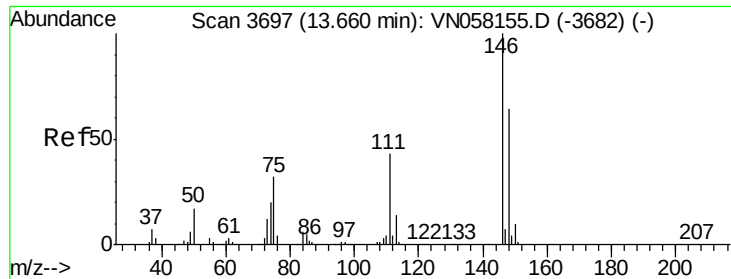
Delta R.T. 0.00 min

Lab File: VN058388.D

Acq: 26 Sep 2019 16:04

Tgt Ion:	117	Resp:	49532
Ion	Ratio	Lower	Upper
117	100		
201	75.5	37.5	112.5





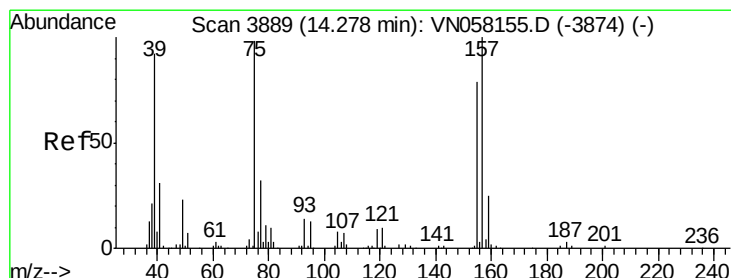
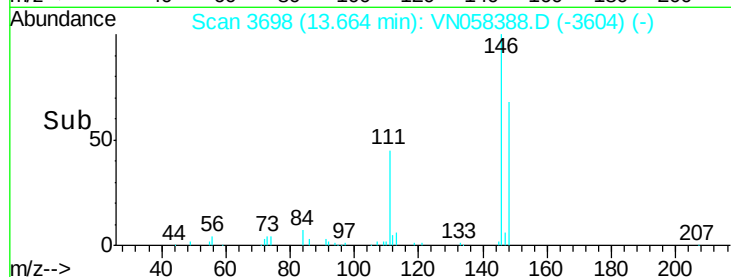
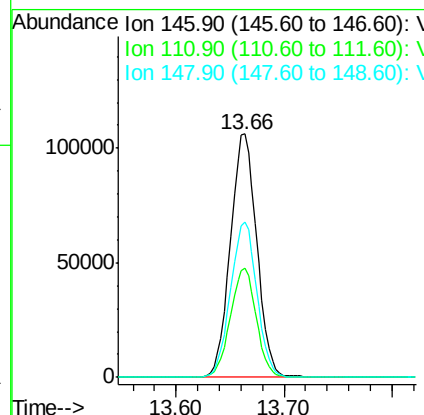
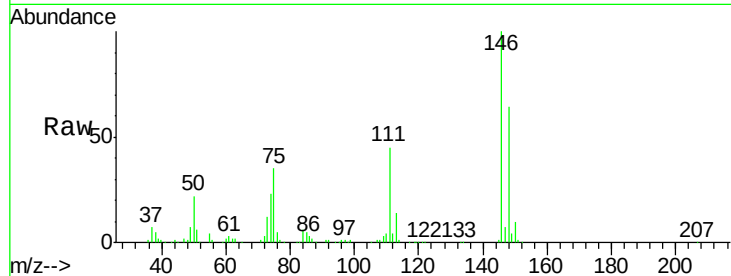
#91
 1,2-Dichlorobenzene
 Concen: 21.052 ug/l
 RT: 13.66 min Scan# 3698
 Delta R.T. 0.00 min
 Lab File: VN058388.D
 Acq: 26 Sep 2019 16:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VN09216WBSD02

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.8	21.1	63.1
148	63.9	31.8	95.4

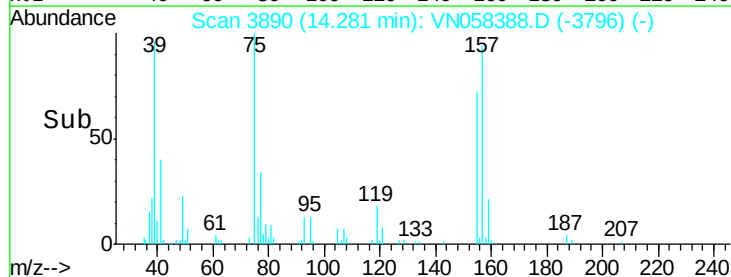
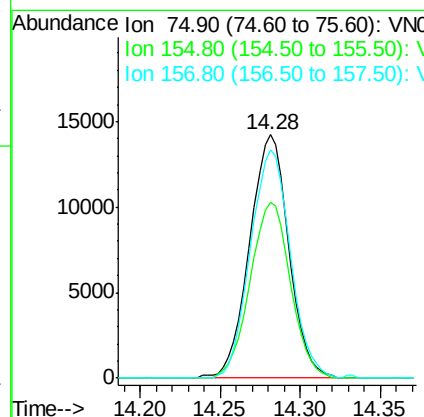
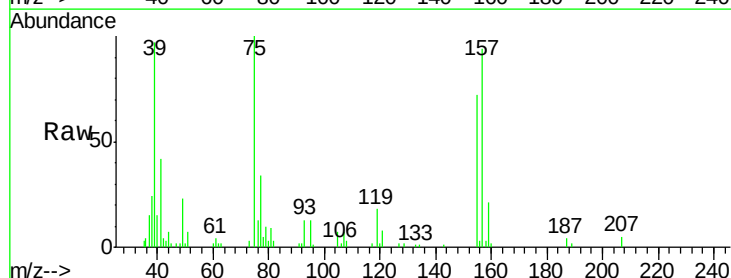
Manual Integrations
 APPROVED

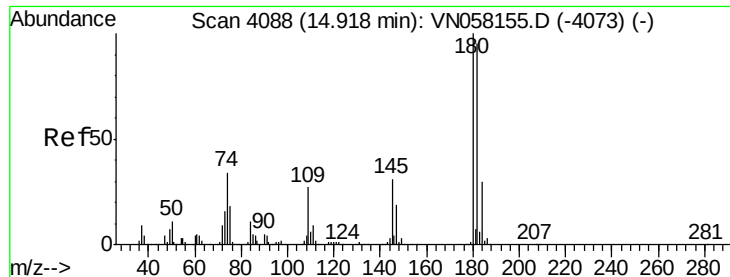
MMDadoda
 9/27/2019 11:19:30 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.077 ug/l
 RT: 14.28 min Scan# 3890
 Delta R.T. 0.00 min
 Lab File: VN058388.D
 Acq: 26 Sep 2019 16:04

Tgt Ion	Ratio	Lower	Upper
75	100		
155	74.3	38.3	114.8
157	95.5	48.0	144.0





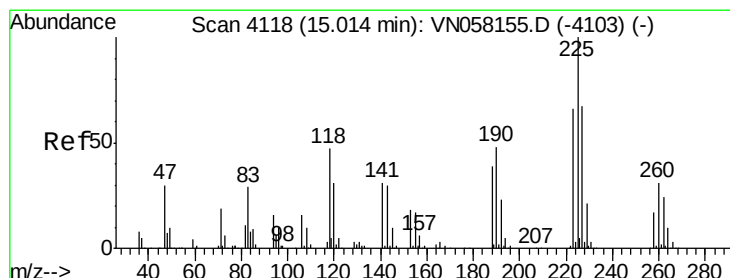
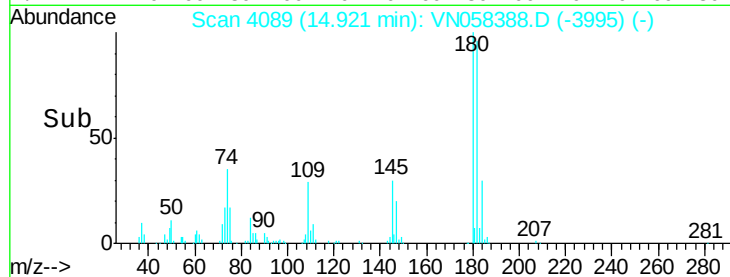
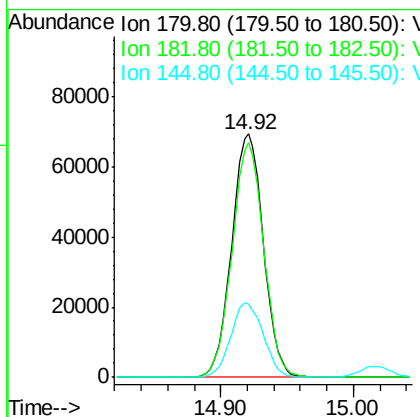
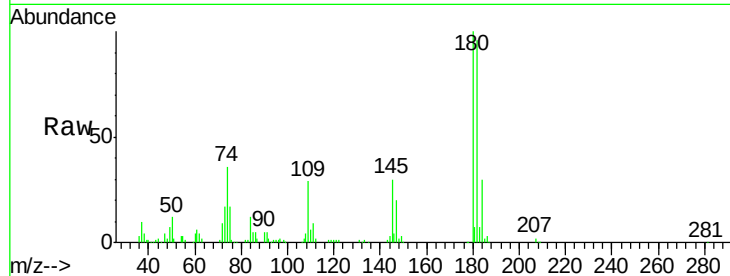
#93
 1,2,4-Trichlorobenzene
 Concen: 20.834 ug/l
 RT: 14.92 min Scan# 4089
 Delta R.T. 0.00 min
 Lab File: VN058388.D
 Acq: 26 Sep 2019 16:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VN09216WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
180	100	114937		
182	96.2	47.8	143.3	
145	31.3	15.4	46.4	

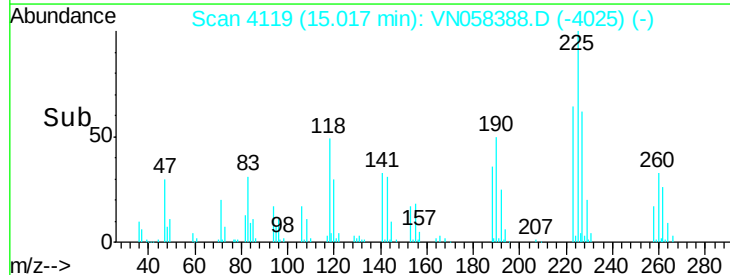
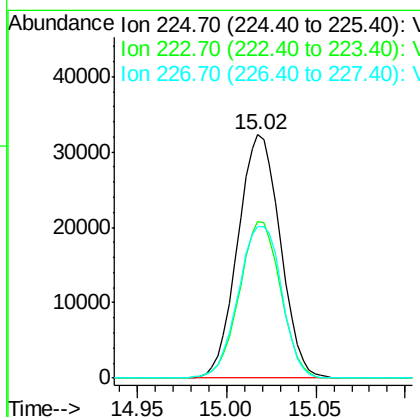
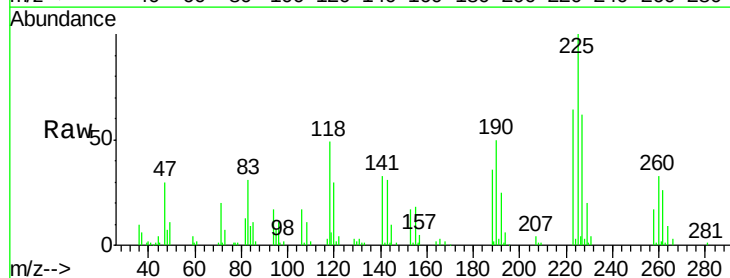
Manual Integrations
 APPROVED

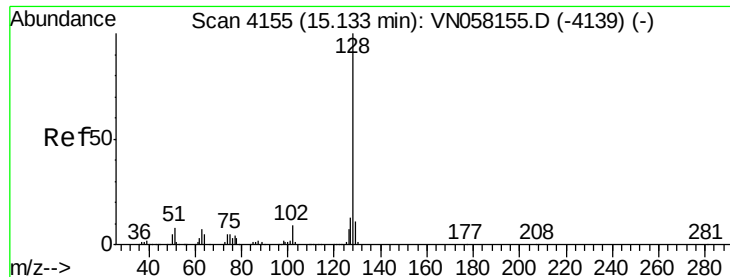
MMDadoda
 9/27/2019 11:19:30 AM



#94
 Hexachlorobutadiene
 Concen: 20.081 ug/l
 RT: 15.02 min Scan# 4119
 Delta R.T. 0.00 min
 Lab File: VN058388.D
 Acq: 26 Sep 2019 16:04

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	53546		
223	62.6	32.6	97.7	
227	63.8	33.0	99.0	





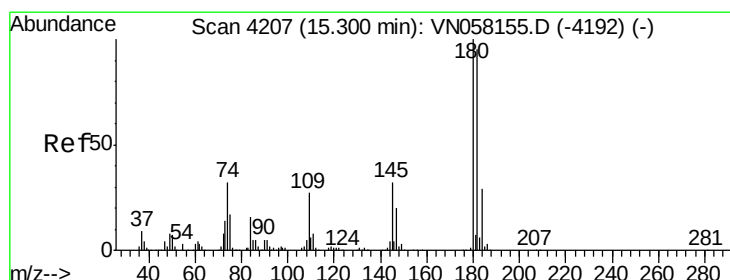
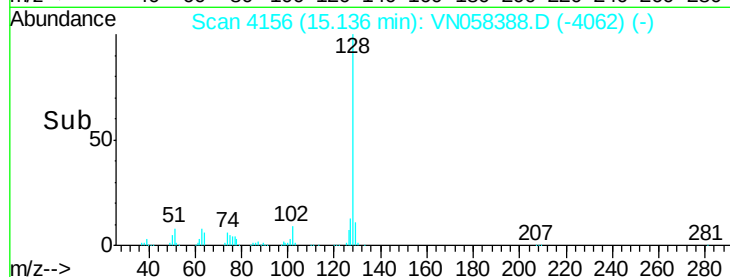
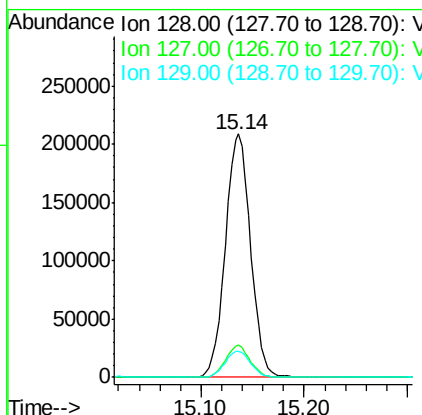
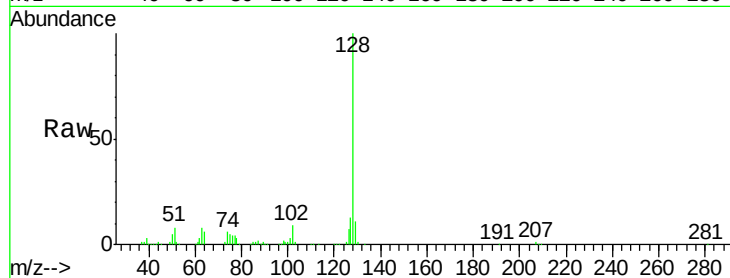
#95
Naphthalene
Concen: 24.828 ug/l
RT: 15.14 min Scan# 4156
Delta R.T. 0.00 min
Lab File: VN058388.D
Acq: 26 Sep 2019 16:04

Instrument :
MSVOA_N
ClientSampleId :
VN09216WBSD02

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.2	15.2
129	10.8	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
9/27/2019 11:19:30 AM



#96
1,2,3-Trichlorobenzene
Concen: 21.041 ug/l
RT: 15.30 min Scan# 4208
Delta R.T. 0.00 min
Lab File: VN058388.D
Acq: 26 Sep 2019 16:04

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.1	47.4	142.2
145	32.6	16.1	48.2

