

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091019\
 Data File : VN057829.D
 Acq On : 10 Sep 2019 2:28
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 9/13/2019 5:16:22 AM

Quant Time: Sep 10 08:13:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	316271	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	520887	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	498996	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	297515	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	320978	50.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.22%	
35) Dibromofluoromethane	7.58	113	234707	48.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.64%	
50) Toluene-d8	10.09	98	958389	51.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.70%	
62) 4-Bromofluorobenzene	12.40	95	337058	47.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.76%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.83	85	215141	49.187	ug/l	99
3) Chloromethane	2.03	50	203646	45.682	ug/l	99
4) Vinyl Chloride	2.16	62	225045	47.698	ug/l	99
5) Bromomethane	2.53	94	126231	48.645	ug/l	93
6) Chloroethane	2.67	64	141849	47.181	ug/l	99
7) Trichlorofluoromethane	2.99	101	276751	46.611	ug/l	98
8) Diethyl Ether	3.39	74	113382	45.784	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.73	101	174776	46.662	ug/l	99
10) Methyl Iodide	3.93	142	196105	47.049	ug/l	99
11) Tert butyl alcohol	4.77	59	187719	242.122	ug/l	99
12) 1,1-Dichloroethene	3.71	96	152348	45.238	ug/l	99
13) Acrolein	3.58	56	157663	239.694	ug/l	99
14) Allyl chloride	4.30	41	290772	44.119	ug/l	100
15) Acrylonitrile	4.96	53	516843	242.534	ug/l	99
16) Acetone	3.80	43	431914	205.679	ug/l	99
17) Carbon Disulfide	4.03	76	238534	45.523	ug/l	98
18) Methyl Acetate	4.30	43	280169	50.038	ug/l	100
19) Methyl tert-butyl Ether	5.02	73	691436	49.335	ug/l	99
20) Methylene Chloride	4.53	84	206571	51.715	ug/l	98
21) trans-1,2-Dichloroethene	5.01	96	169375	46.525	ug/l	99
22) Diisopropyl ether	5.93	45	772484	49.980	ug/l	98
23) Vinyl Acetate	5.87	43	2764695	252.403	ug/l	99
24) 1,1-Dichloroethane	5.82	63	407074	48.192	ug/l	99
25) 2-Butanone	6.82	43	702168	231.025	ug/l	97
26) 2,2-Dichloropropane	6.81	77	238171	35.629	ug/l	98
27) cis-1,2-Dichloroethene	6.81	96	232487	47.653	ug/l	98
28) Bromochloromethane	7.18	49	207624	49.200	ug/l	99
29) Tetrahydrofuran	7.19	42	452401	241.555	ug/l	99
30) Chloroform	7.36	83	426778	48.322	ug/l	96
31) Cyclohexane	7.64	56	293148	50.970	ug/l	100
32) 1,1,1-Trichloroethane	7.55	97	338114	48.270	ug/l	99
36) 1,1-Dichloropropene	7.78	75	278810	46.154	ug/l	99
37) Ethyl Acetate	6.91	43	292690	46.895	ug/l	100
38) Carbon Tetrachloride	7.76	117	269042	48.781	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091019\
 Data File : VN057829.D
 Acq On : 10 Sep 2019 2:28
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 9/13/2019 5:16:22 AM

Quant Time: Sep 10 08:13:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	288750	45.470	ug/l	96
40) Benzene	8.03	78	866217	47.628	ug/l	99
41) Methacrylonitrile	7.16	41	145183	51.244	ug/l	91
42) 1,2-Dichloroethane	8.11	62	350745	48.221	ug/l	100
43) Isopropyl Acetate	8.15	43	512266	48.806	ug/l	100
44) Trichloroethene	8.83	130	208690	46.783	ug/l	99
45) 1,2-Dichloropropane	9.11	63	258357	48.819	ug/l	98
46) Dibromomethane	9.20	93	158389	49.528	ug/l	99
47) Bromodichloromethane	9.40	83	325151	50.916	ug/l	99
48) Methyl methacrylate	9.19	41	253480	47.609	ug/l	100
49) 1,4-Dioxane	9.19	88	82248	913.484	ug/l	97
51) 4-Methyl-2-Pentanone	9.98	43	1596548	257.043	ug/l	100
52) Toluene	10.15	92	556173	48.553	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	327268	48.666	ug/l	100
54) cis-1,3-Dichloropropene	9.83	75	361819	48.732	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	237569	48.961	ug/l	98
56) Ethyl methacrylate	10.43	69	364071	49.826	ug/l	99
57) 1,3-Dichloropropane	10.71	76	406359	48.595	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.69	63	859877	249.857	ug/l	100
59) 2-Hexanone	10.75	43	1145763	246.108	ug/l	100
60) Dibromochloromethane	10.90	129	228805	50.781	ug/l	99
61) 1,2-Dibromoethane	11.00	107	225034	49.056	ug/l	99
64) Tetrachloroethene	10.63	164	174024	47.233	ug/l	97
65) Chlorobenzene	11.43	112	621434	47.586	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	226035	49.882	ug/l	99
67) Ethyl Benzene	11.51	91	1138093	49.728	ug/l	98
68) m/p-Xylenes	11.62	106	825946	98.522	ug/l	99
69) o-Xylene	11.95	106	411990	49.433	ug/l	98
70) Styrene	11.96	104	727717	50.736	ug/l	99
71) Bromoform	12.13	173	142475	50.431	ug/l #	98
73) Isopropylbenzene	12.25	105	1153449	49.963	ug/l	100
74) N-amyl acetate	12.07	43	487287	48.500	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.51	83	359811	46.289	ug/l	97
76) 1,2,3-Trichloropropane	12.56	75	293959m	43.677	ug/l	
77) Bromobenzene	12.53	156	265769	46.173	ug/l	98
78) n-propylbenzene	12.59	91	1351751	50.990	ug/l	99
79) 2-Chlorotoluene	12.68	91	798325	47.646	ug/l	100
80) 1,3,5-Trimethylbenzene	12.74	105	983877	50.439	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	83775	43.803	ug/l	96
82) 4-Chlorotoluene	12.78	91	839527	48.792	ug/l	100
83) tert-Butylbenzene	13.00	119	858449	49.508	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	995009	50.189	ug/l	100
85) sec-Butylbenzene	13.18	105	1165225	50.701	ug/l	100
86) p-Isopropyltoluene	13.29	119	1045028	51.607	ug/l	99
87) 1,3-Dichlorobenzene	13.29	146	510341	48.305	ug/l	100
88) 1,4-Dichlorobenzene	13.37	146	506761	47.255	ug/l	100
89) n-Butylbenzene	13.62	91	952307	49.799	ug/l	99
90) Hexachloroethane	13.88	117	155580	51.661	ug/l	97
91) 1,2-Dichlorobenzene	13.66	146	510371	48.354	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.28	75	63354	49.353	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091019\
Data File : VN057829.D
Acq On : 10 Sep 2019 2:28
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 34 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

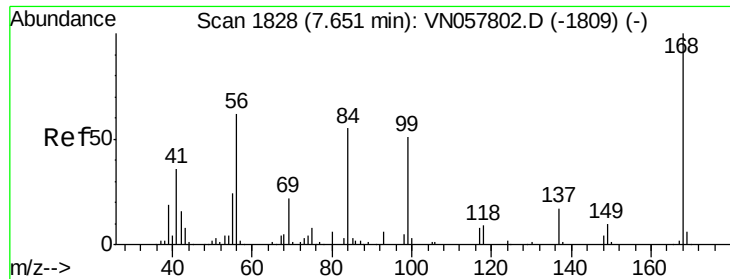
Manual Integrations
APPROVED

MMDadoda
9/13/2019 5:16:22 AM

Quant Time: Sep 10 08:13:56 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
Quant Title : SW846 8260
QLast Update : Tue Sep 10 03:02:13 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	309594	44.876	ug/l	98
94) Hexachlorobutadiene	15.01	225	134496	45.990	ug/l	97
95) Naphthalene	15.13	128	892896	51.308	ug/l	100
96) 1,2,3-Trichlorobenzene	15.30	180	289775	48.151	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN057829.D

Acq: 10 Sep 2019 2:28

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion:168 Resp: 316271

Ion Ratio Lower Upper

168 100

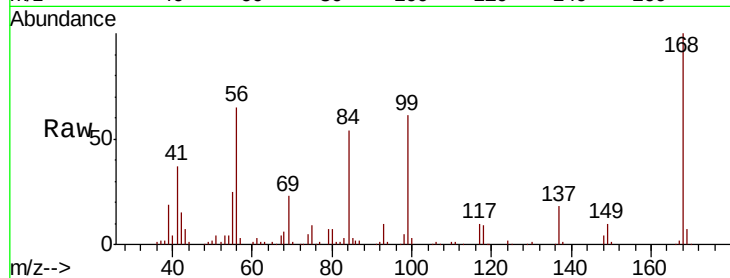
99 60.4 48.0 72.0

Manual Integrations

APPROVED

MMDadoda

9/13/2019 5:16:22 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

150000

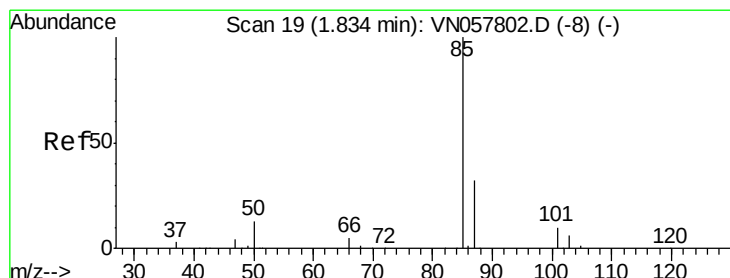
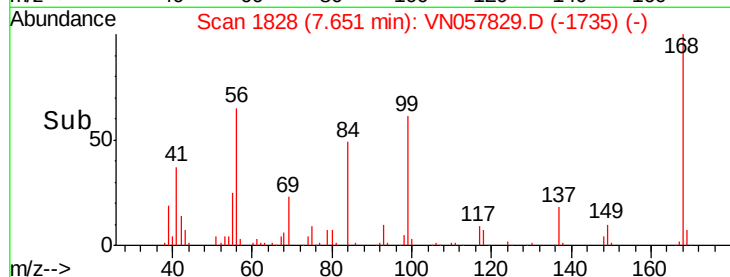
100000

50000

0

7.50 7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 49.187 ug/l

RT: 1.83 min Scan# 19

Delta R.T. 0.00 min

Lab File: VN057829.D

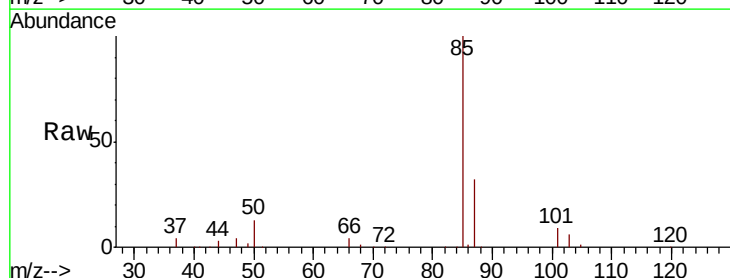
Acq: 10 Sep 2019 2:28

Tgt Ion: 85 Resp: 215141

Ion Ratio Lower Upper

85 100

87 32.3 16.0 47.9



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.83

150000

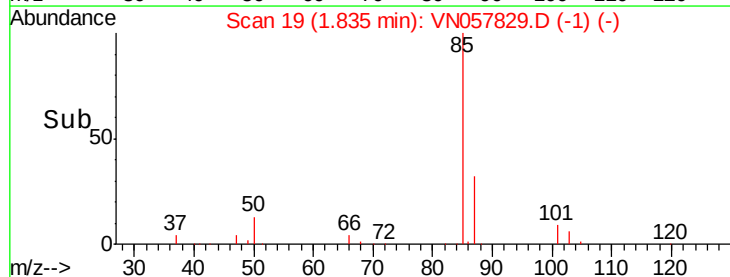
100000

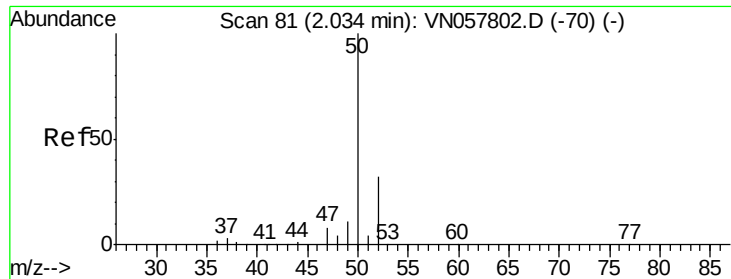
50000

0

1.80 1.85 1.90

Time-->





#3

Chloromethane

Concen: 45.682 ug/l

RT: 2.03 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN057829.D

Acq: 10 Sep 2019 2:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 203646

Ion Ratio Lower Upper

50 100

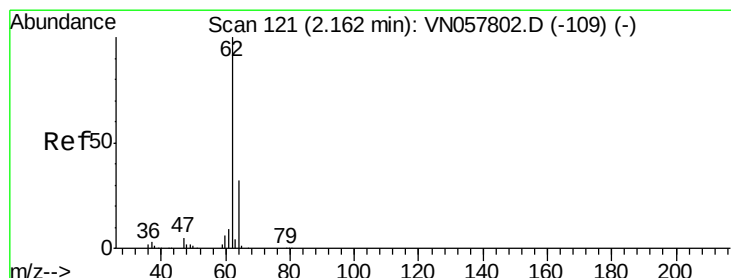
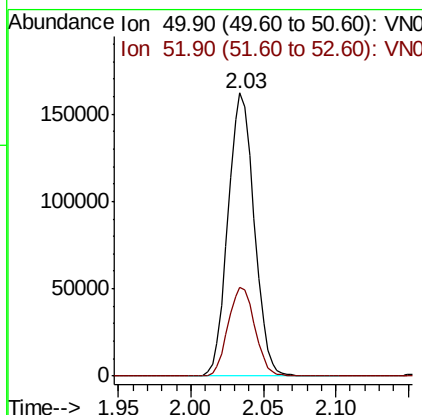
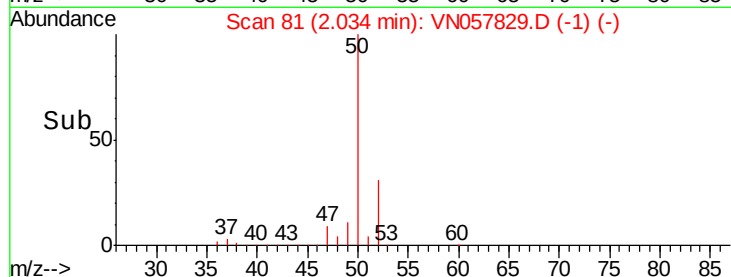
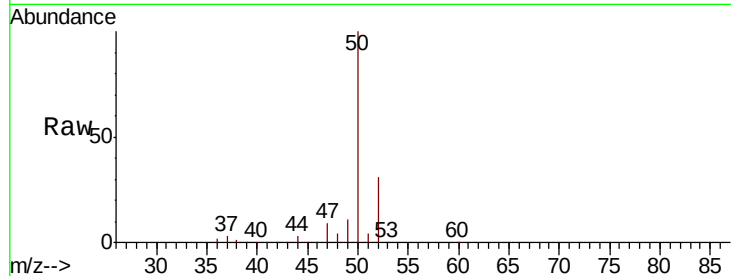
52 31.3 25.5 38.3

Manual Integrations

APPROVED

MMDadoda

9/13/2019 5:16:22 AM



#4

Vinyl Chloride

Concen: 47.698 ug/l

RT: 2.16 min Scan# 121

Delta R.T. 0.00 min

Lab File: VN057829.D

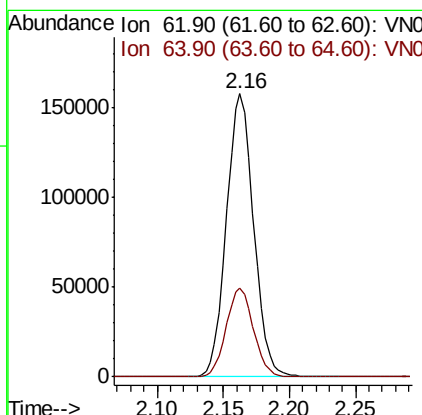
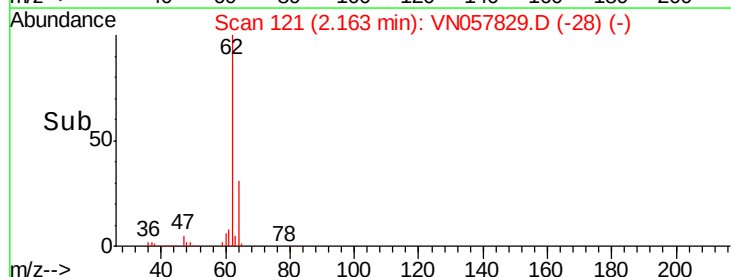
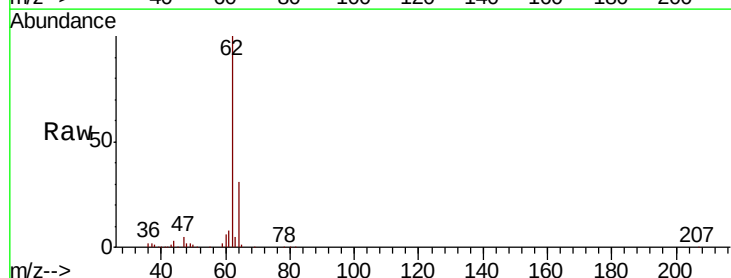
Acq: 10 Sep 2019 2:28

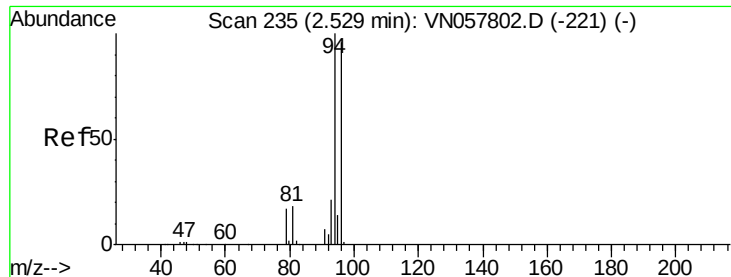
Tgt Ion: 62 Resp: 225045

Ion Ratio Lower Upper

62 100

64 31.3 25.6 38.4





#5

Bromomethane

Concen: 48.645 ug/l

RT: 2.53 min Scan# 236

Delta R.T. 0.00 min

Lab File: VN057829.D

Acq: 10 Sep 2019 2:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 126231

Ion Ratio Lower Upper

94 100

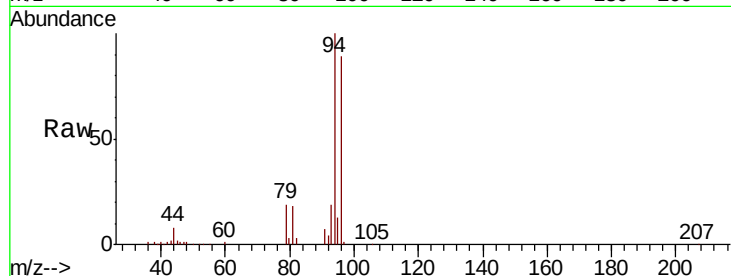
96 88.9 77.0 115.4

Manual Integrations

APPROVED

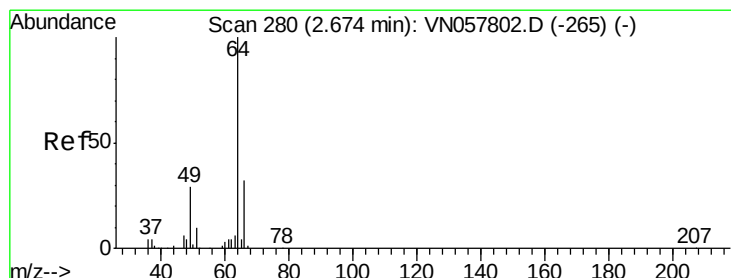
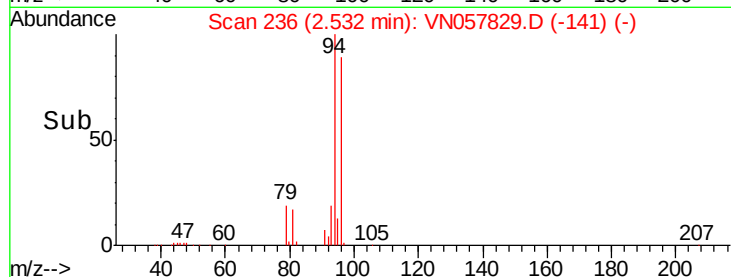
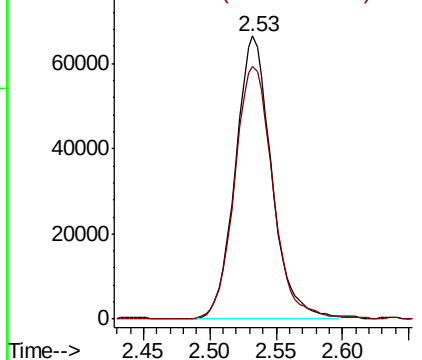
MMDadoda

9/13/2019 5:16:22 AM



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 47.181 ug/l

RT: 2.67 min Scan# 280

Delta R.T. 0.00 min

Lab File: VN057829.D

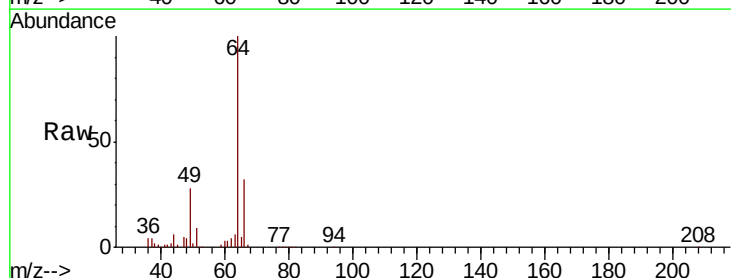
Acq: 10 Sep 2019 2:28

Tgt Ion: 64 Resp: 141849

Ion Ratio Lower Upper

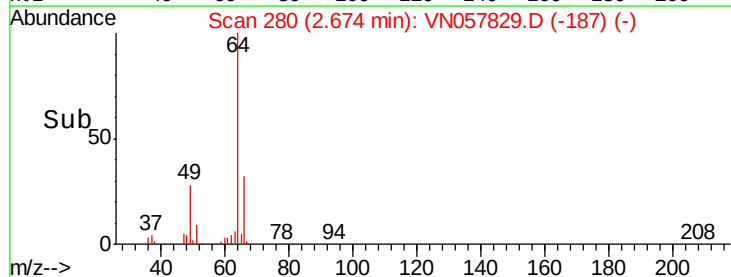
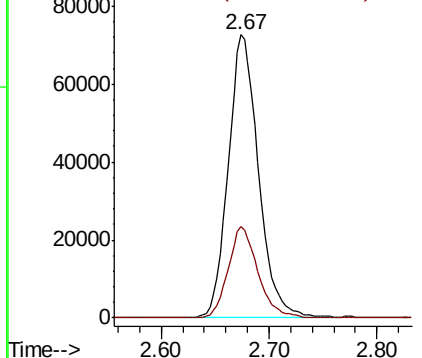
64 100

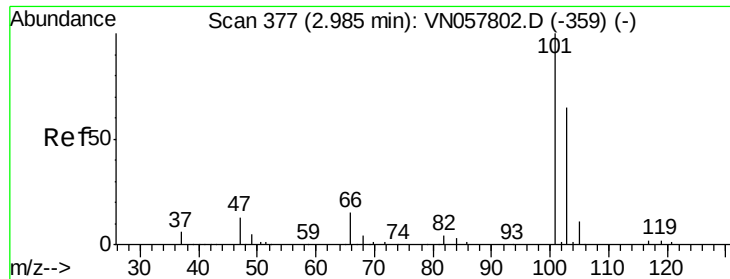
66 32.2 25.5 38.3



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO





#7

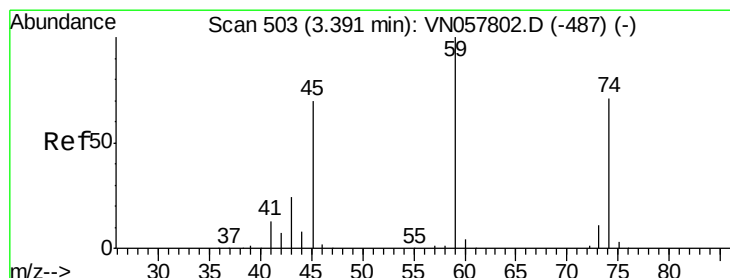
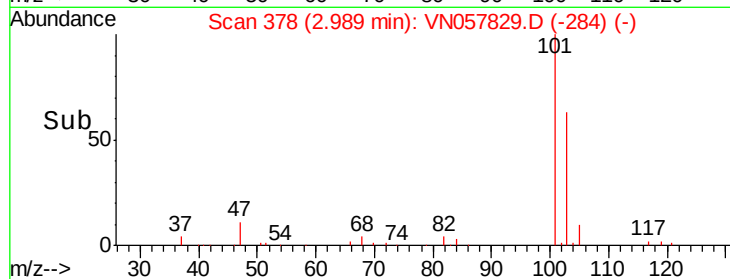
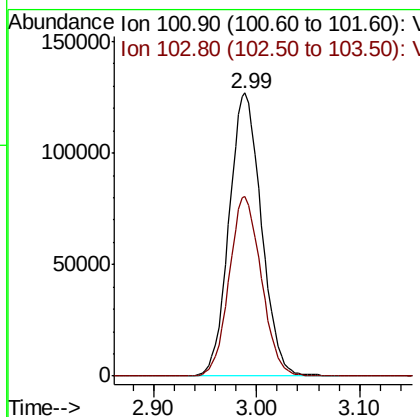
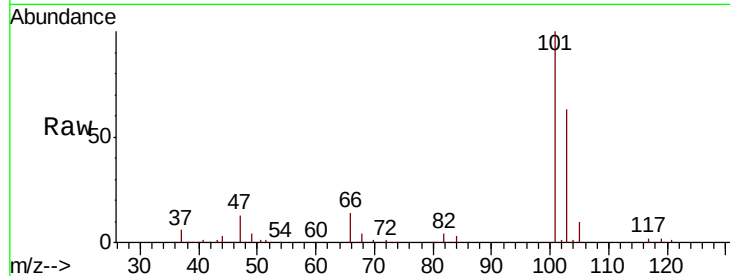
Trichlorofluoromethane
Concen: 46.611 ug/l
RT: 2.99 min Scan# 378
Delta R.T. 0.00 min
Lab File: VN057829.D
Acq: 10 Sep 2019 2:28

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
101	100	276751		
103	63.3	51.9	77.9	

Manual Integrations
APPROVED

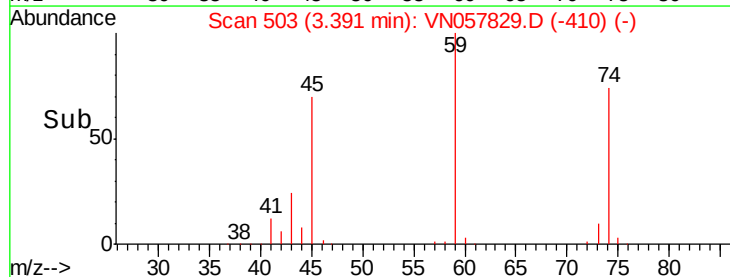
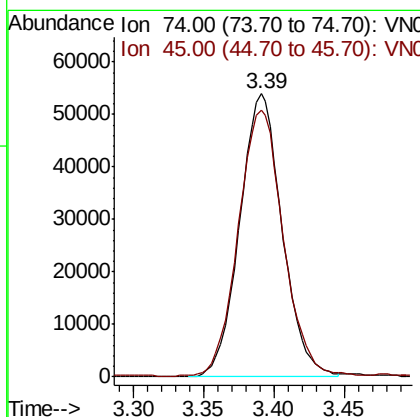
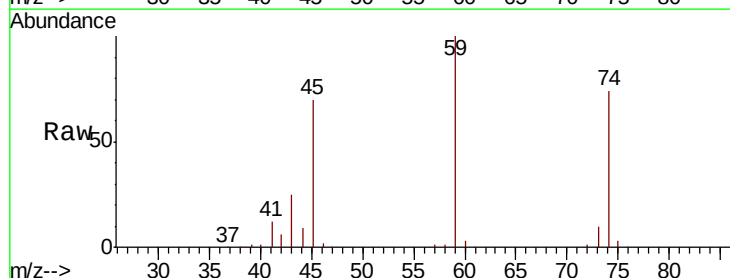
MMDadoda
9/13/2019 5:16:22 AM

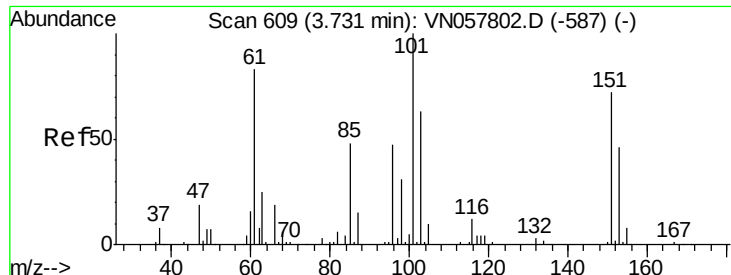


#8

Diethyl Ether
Concen: 45.784 ug/l
RT: 3.39 min Scan# 503
Delta R.T. 0.00 min
Lab File: VN057829.D
Acq: 10 Sep 2019 2:28

Tgt Ion	Ratio	Resp	Lower	Upper
74	100	113382		
45	99.5	50.3	151.0	





#9

1,1,2-Trichlorotrifluoroethane

Concen: 46.662 ug/l

RT: 3.73 min Scan# 610

Delta R.T. 0.00 min

Lab File: VN057829.D

Acq: 10 Sep 2019 2:28

Instrument :

MSVOA_N

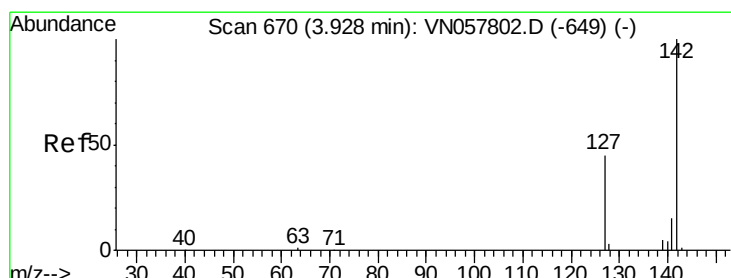
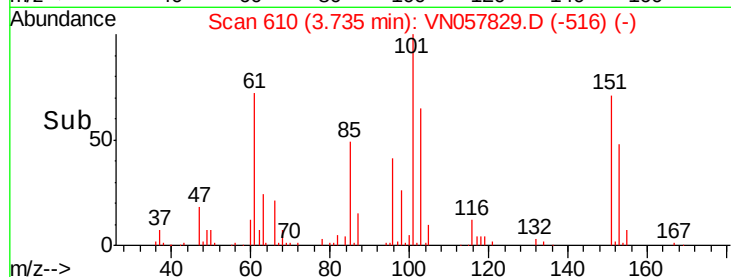
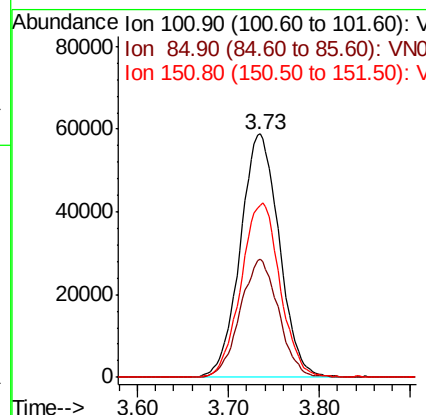
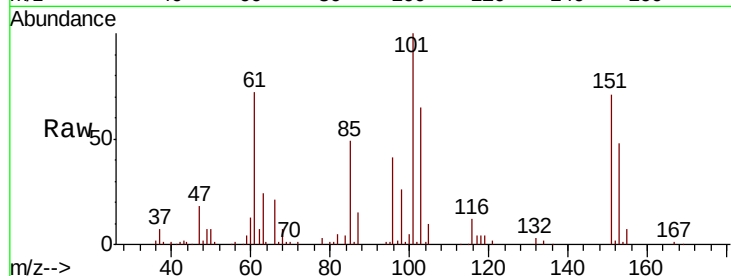
ClientSampled :

VSTDCCC050

Tot Ion:	101	Resp:	174776
Ion Ratio	Lower	Upper	
101	100		
85	48.0	38.1	57.1
151	71.7	58.4	87.6

Manual Integrations
APPROVED

MMDadoda
9/13/2019 5:16:22 AM



#10

Methyl Iodide

Concen: 47.049 ug/l

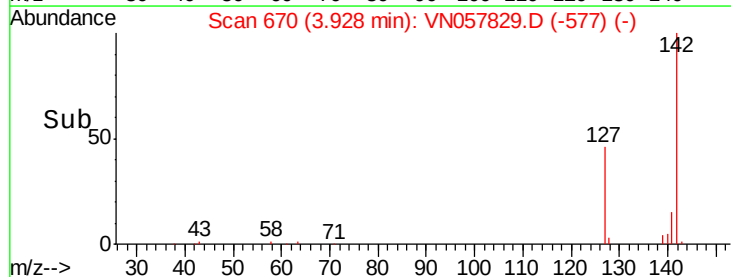
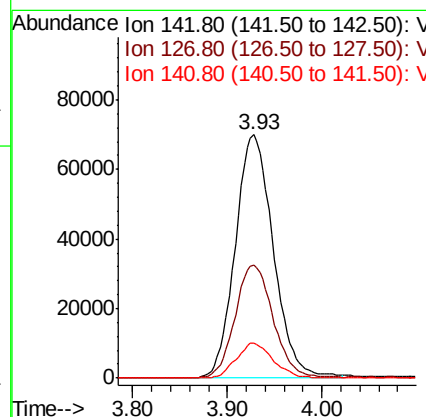
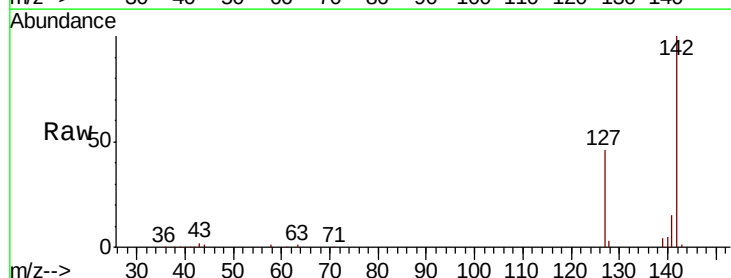
RT: 3.93 min Scan# 670

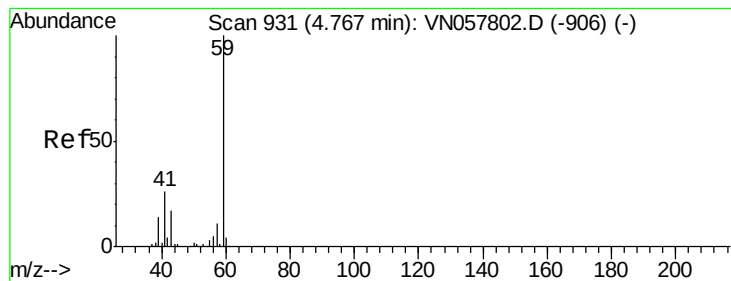
Delta R.T. 0.00 min

Lab File: VN057829.D

Acq: 10 Sep 2019 2:28

Tgt Ion:	142	Resp:	196105
Ion Ratio	Lower	Upper	
142	100		
127	46.6	36.7	55.1
141	14.0	11.4	17.0





#11

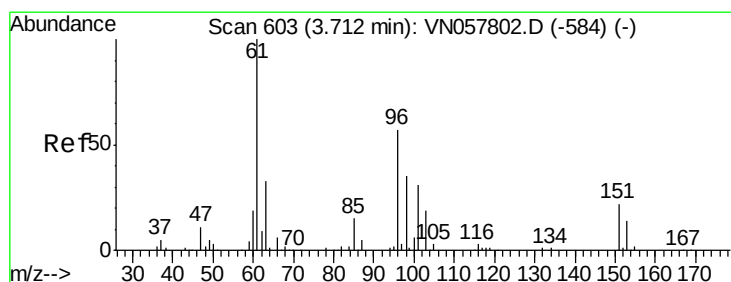
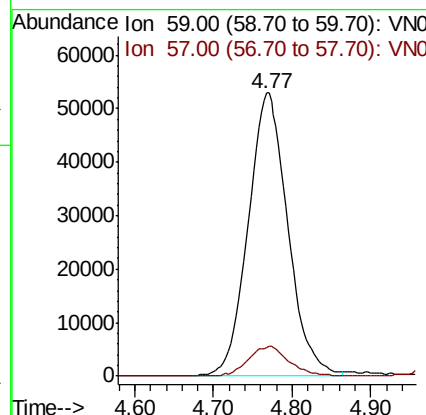
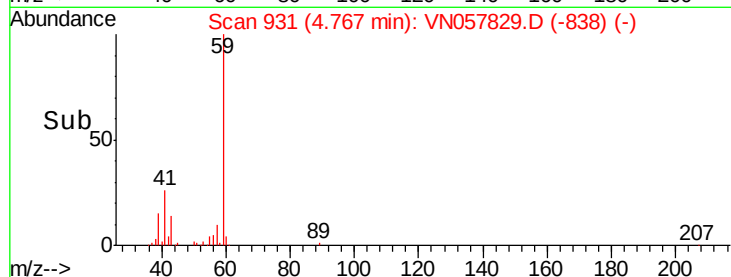
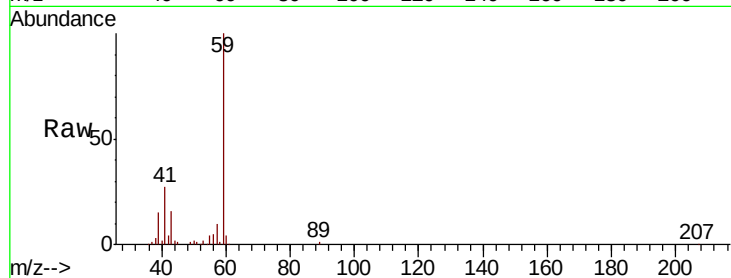
Tert butyl alcohol
Concen: 242.122 ug/l
RT: 4.77 min Scan# 931
Delta R.T. 0.00 min
Lab File: VN057829.D
Acq: 10 Sep 2019 2:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
59	100	187719		
57	10.8		8.4	12.6

Manual Integrations
APPROVED

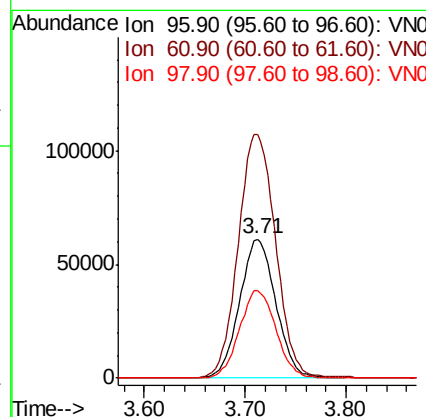
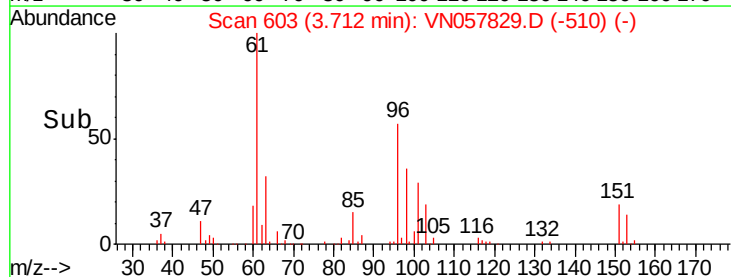
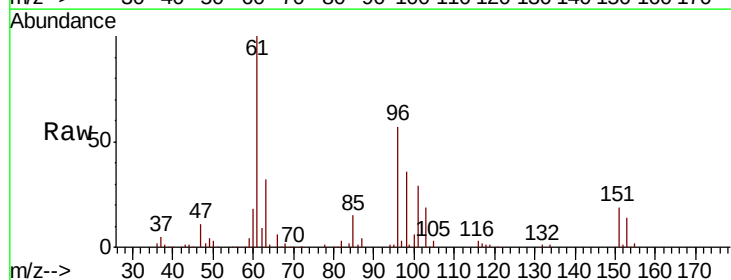
MMDadoda
9/13/2019 5:16:22 AM

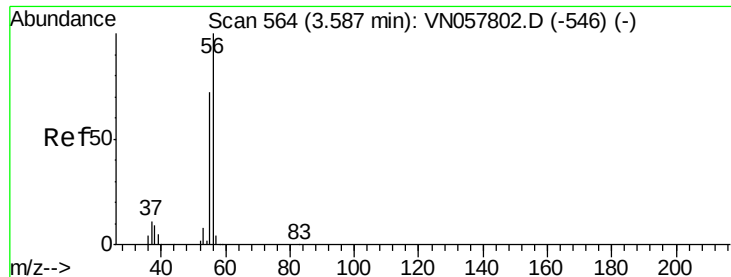


#12

1,1-Dichloroethene
Concen: 45.238 ug/l
RT: 3.71 min Scan# 603
Delta R.T. 0.00 min
Lab File: VN057829.D
Acq: 10 Sep 2019 2:28

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	152348		
61	174.8		141.2	211.8
98	63.1		49.9	74.9





#13

Acrolein

Concen: 239.694 ug/l

RT: 3.58 min Scan# 563

Delta R.T. -0.00 min

Lab File: VN057829.D

Acq: 10 Sep 2019 2:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 157663

Ion Ratio Lower Upper

56 100

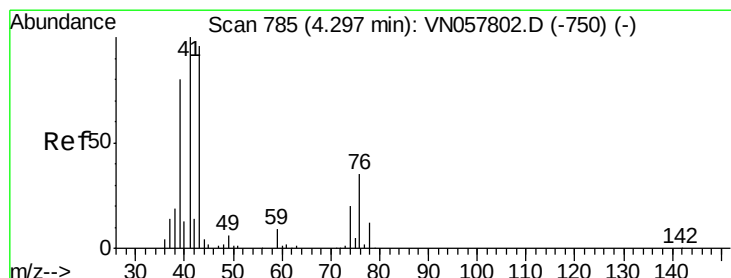
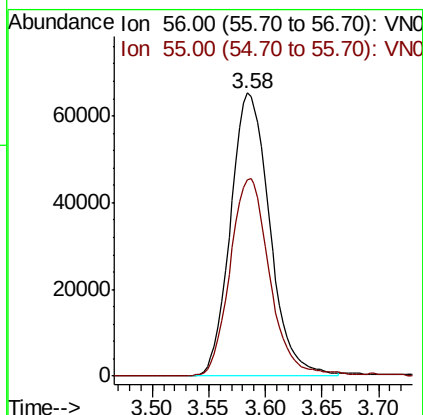
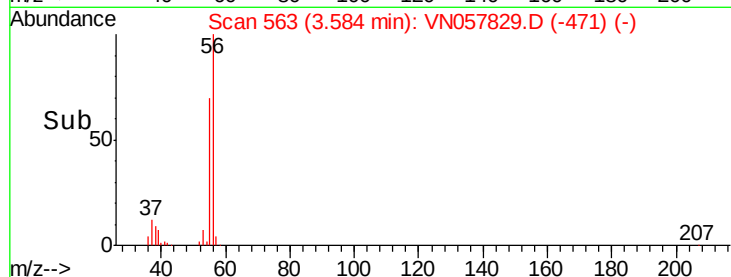
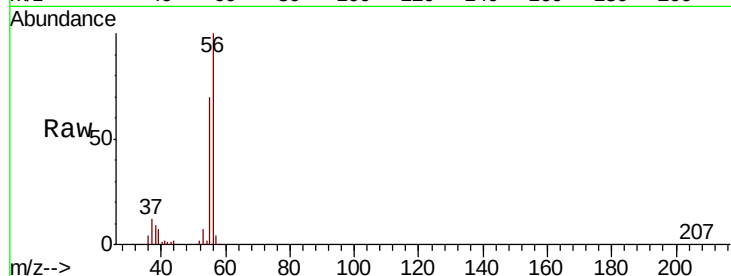
55 70.8 57.3 85.9

Manual Integrations

APPROVED

MMDadoda

9/13/2019 5:16:22 AM



#14

Allyl chloride

Concen: 44.119 ug/l

RT: 4.30 min Scan# 785

Delta R.T. 0.00 min

Lab File: VN057829.D

Acq: 10 Sep 2019 2:28

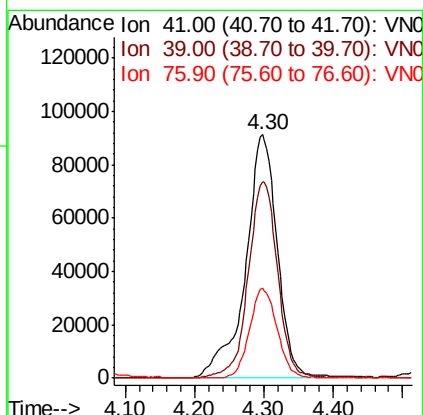
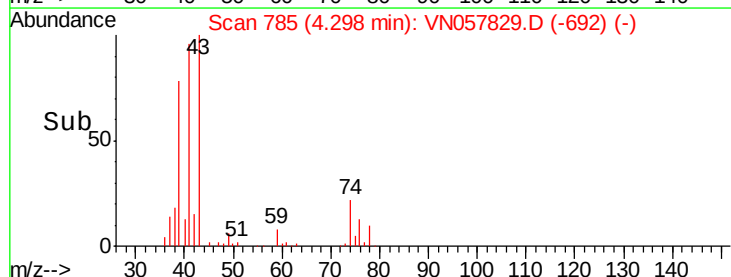
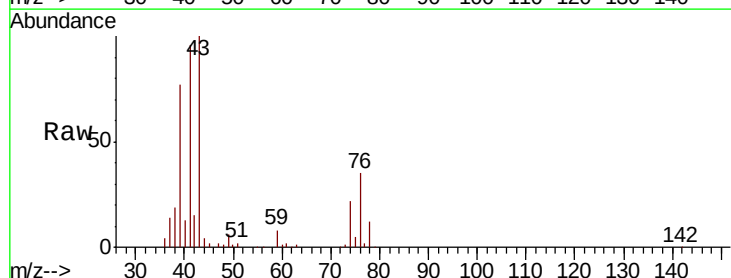
Tgt Ion: 41 Resp: 290772

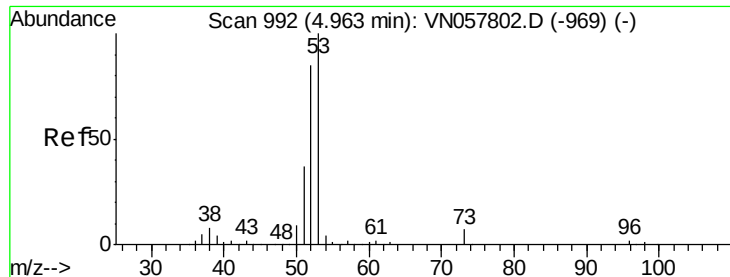
Ion Ratio Lower Upper

41 100

39 74.0 59.4 89.2

76 32.0 26.0 39.0





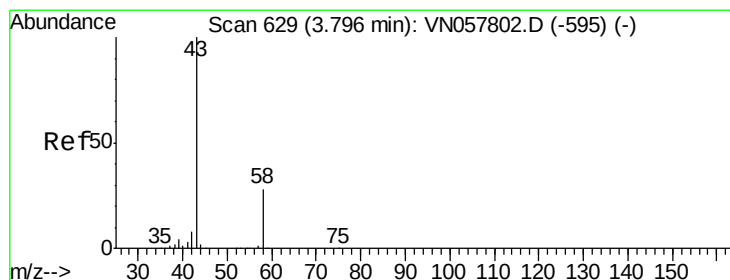
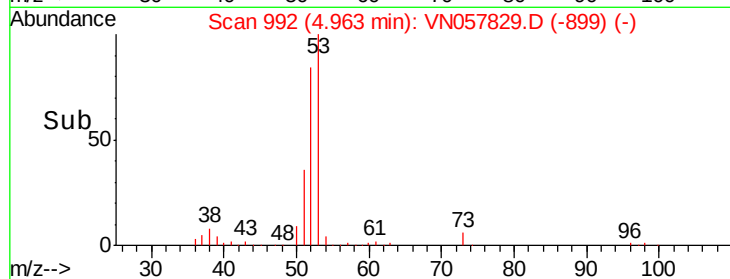
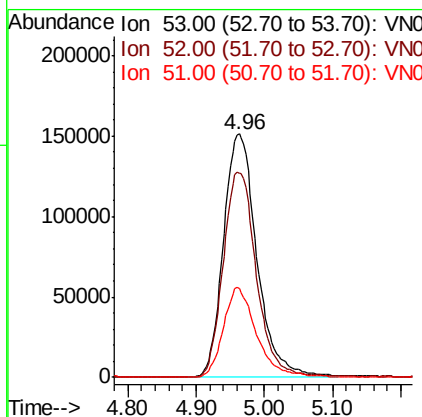
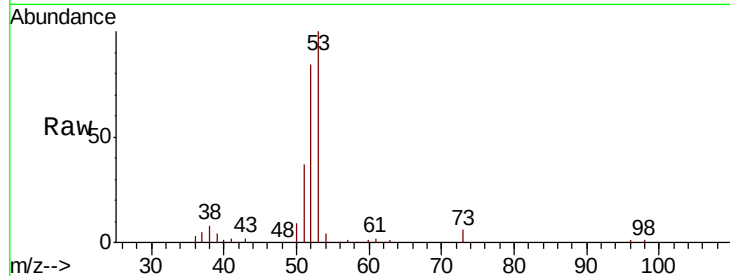
#15
 Acrylonitrile
 Concen: 242.534 ug/l
 RT: 4.96 min Scan# 992
 Delta R.T. 0.00 min
 Lab File: VN057829.D
 Acq: 10 Sep 2019 2:28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
53	100		
52	83.0	66.6	100.0
51	36.7	29.8	44.8

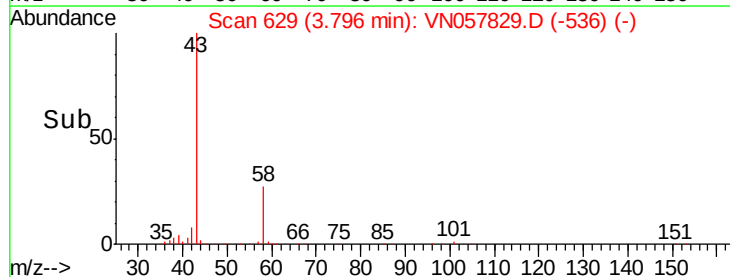
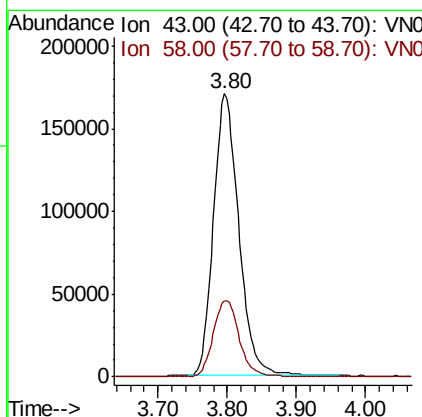
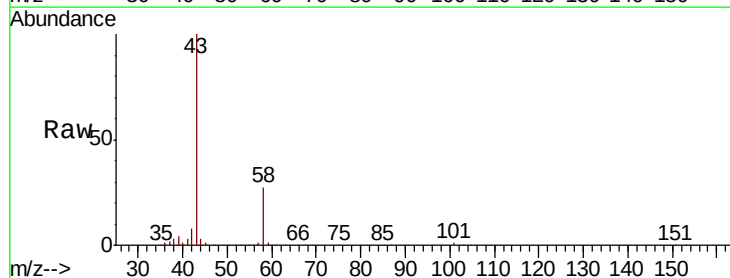
Manual Integrations
 APPROVED

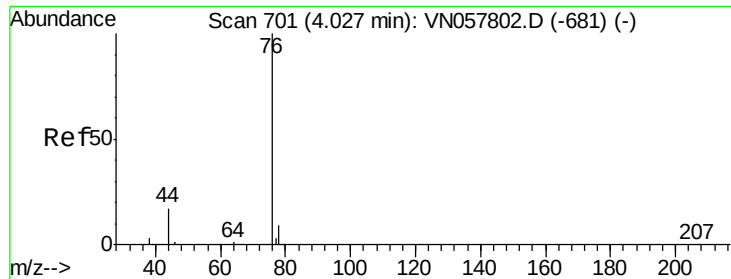
MMDadoda
 9/13/2019 5:16:22 AM



#16
 Acetone
 Concen: 205.679 ug/l
 RT: 3.80 min Scan# 629
 Delta R.T. 0.00 min
 Lab File: VN057829.D
 Acq: 10 Sep 2019 2:28

Tgt Ion	Ratio	Lower	Upper
43	100		
58	27.0	22.2	33.2





#17

Carbon Disulfide

Concen: 45.523 ug/l

RT: 4.03 min Scan# 701

Delta R.T. 0.00 min

Lab File: VN057829.D

Acq: 10 Sep 2019 2:28

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion: 76 Resp: 238534

Ion Ratio Lower Upper

76 100

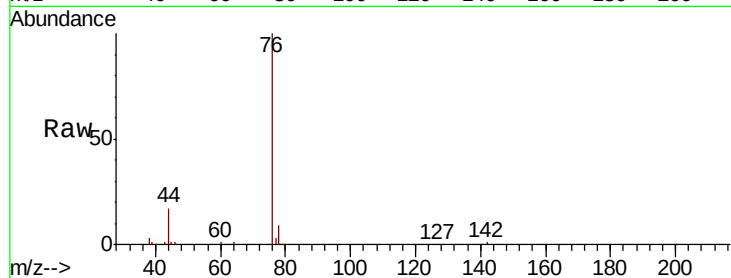
78 9.5 7.1 10.7

Manual Integrations

APPROVED

MMDadoda

9/13/2019 5:16:22 AM



Abundance Ion 75.90 (75.60 to 76.60): VN057829.D (-608) (-)

Ion 77.90 (77.60 to 78.60): VN057829.D (-608) (-)

4.03

100000

80000

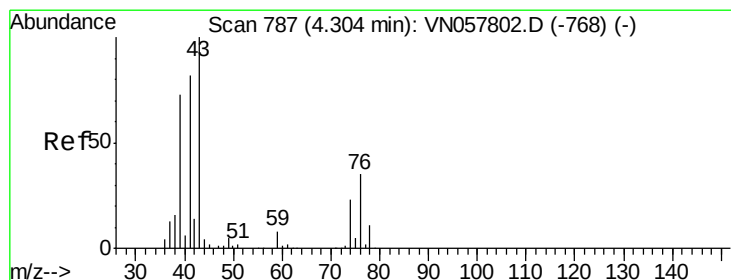
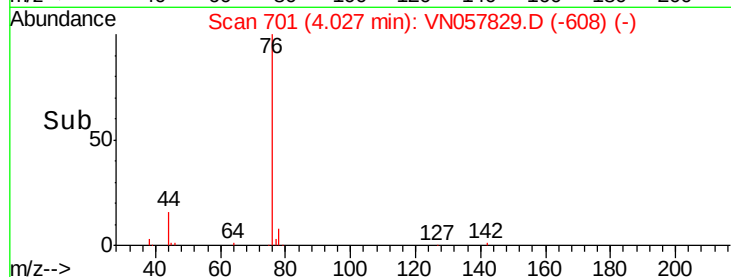
60000

40000

20000

0

Time--> 3.90 4.00 4.10



#18

Methyl Acetate

Concen: 50.038 ug/l

RT: 4.30 min Scan# 786

Delta R.T. -0.00 min

Lab File: VN057829.D

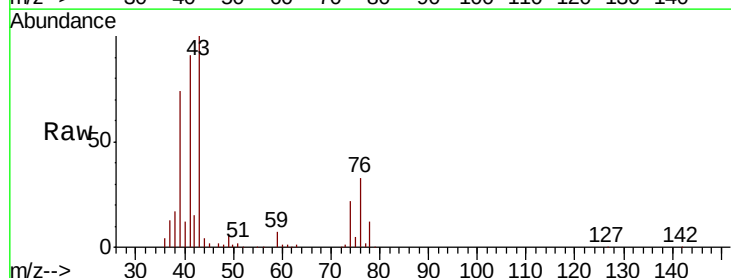
Acq: 10 Sep 2019 2:28

Tgt Ion: 43 Resp: 280169

Ion Ratio Lower Upper

43 100

74 22.2 17.9 26.9



Abundance Ion 43.00 (42.70 to 43.70): VN057829.D (-694) (-)

Ion 74.00 (73.70 to 74.70): VN057829.D (-694) (-)

4.30

100000

80000

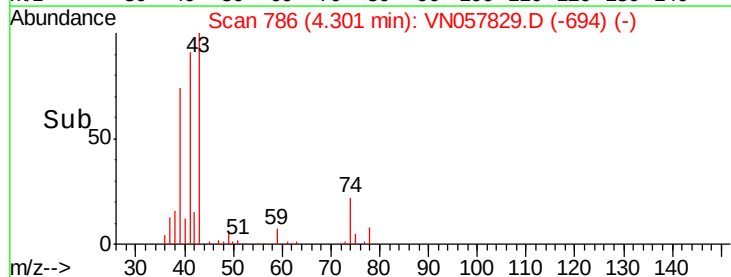
60000

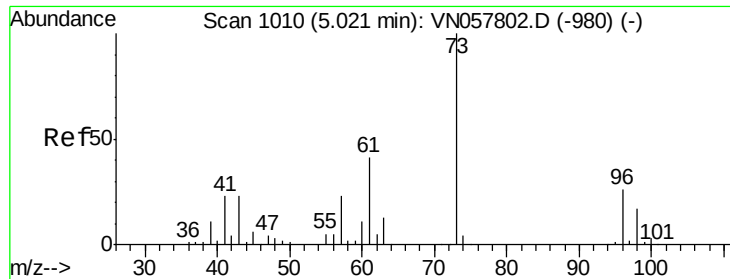
40000

20000

0

Time--> 4.20 4.30 4.40





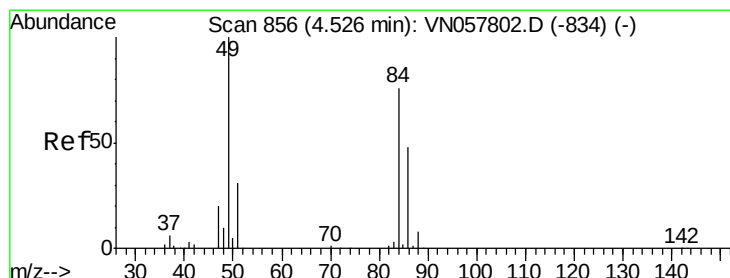
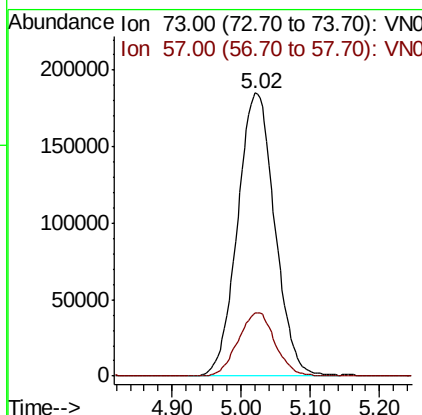
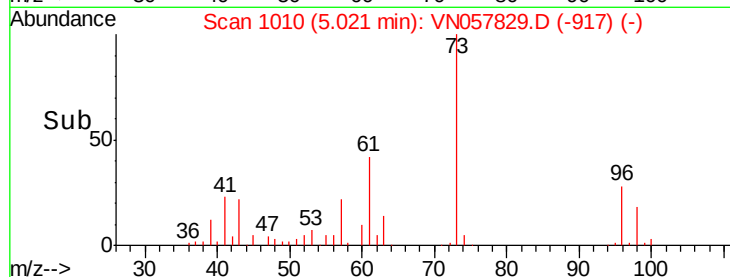
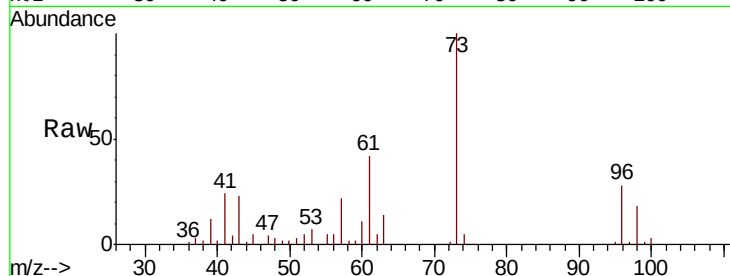
#19
Methvl tert-butyl Ether
Concen: 49.335 ug/l
RT: 5.02 min Scan# 1010
Delta R.T. 0.00 min
Lab File: VN057829.D
Acq: 10 Sep 2019 2:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 73 Resp: 691436
Ion Ratio Lower Upper
73 100
57 22.3 18.2 27.2

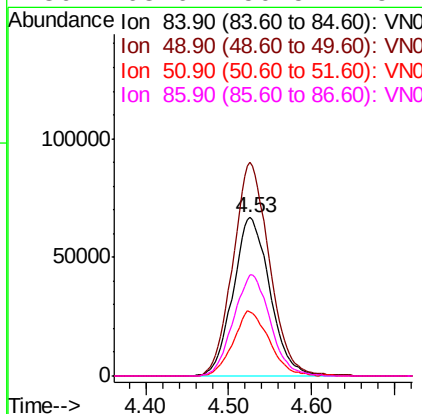
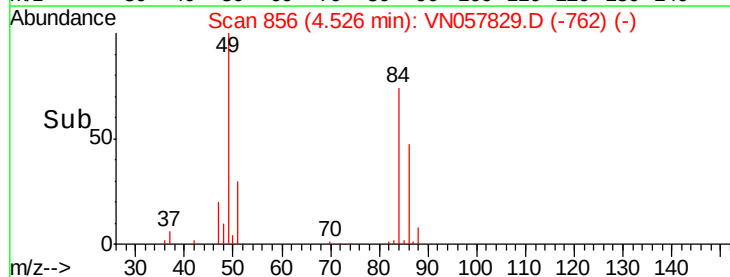
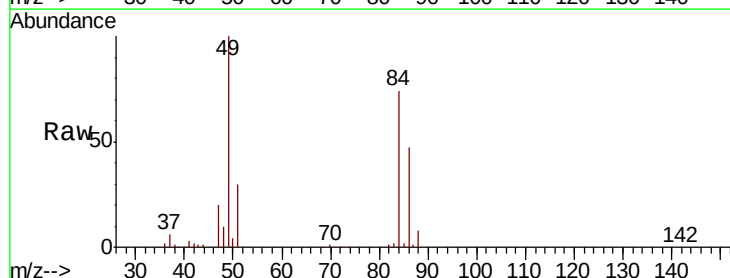
Manual Integrations
APPROVED

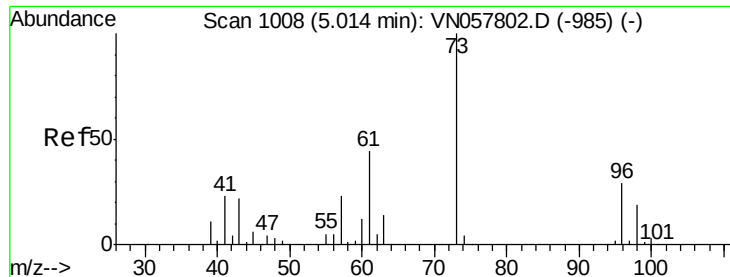
MMDadoda
9/13/2019 5:16:22 AM



#20
Methylene Chloride
Concen: 51.715 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN057829.D
Acq: 10 Sep 2019 2:28

Tgt Ion: 84 Resp: 206571
Ion Ratio Lower Upper
84 100
49 135.0 104.8 157.2
51 40.8 33.0 49.4
86 63.6 50.5 75.7





#21

trans-1,2-Dichloroethene

Concen: 46.525 ug/l

RT: 5.01 min Scan# 1008

Delta R.T. 0.00 min

Lab File: VN057829.D

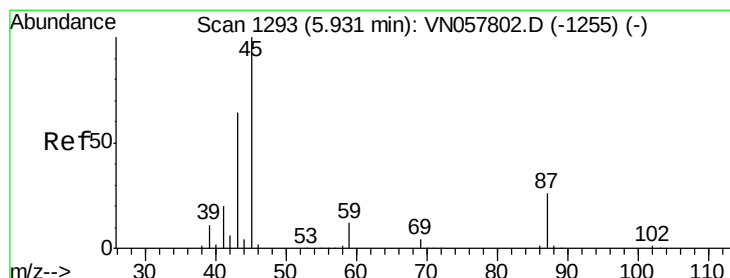
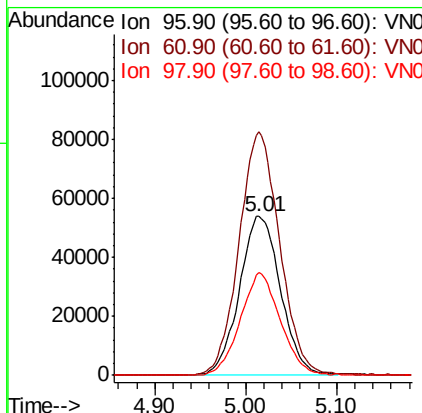
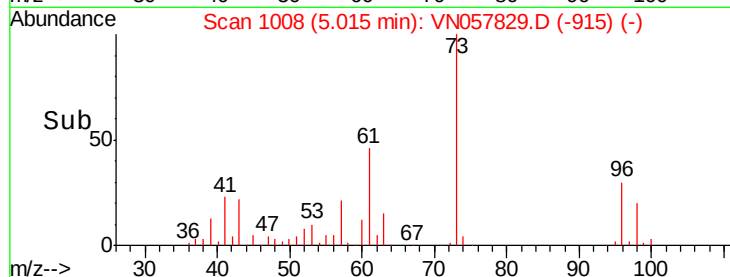
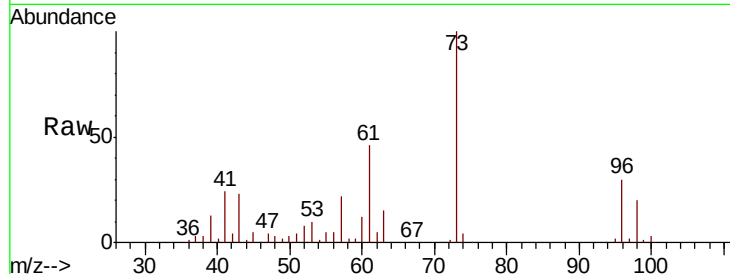
Acq: 10 Sep 2019 2:28

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion:	96	Resp:	169375
Ion	Ratio	Lower	Upper
96	100		
61	153.1	121.9	182.9
98	64.8	52.2	78.4

Manual Integrations
APPROVED

MMDadoda
9/13/2019 5:16:22 AM



#22

Diisopropyl ether

Concen: 49.980 ug/l

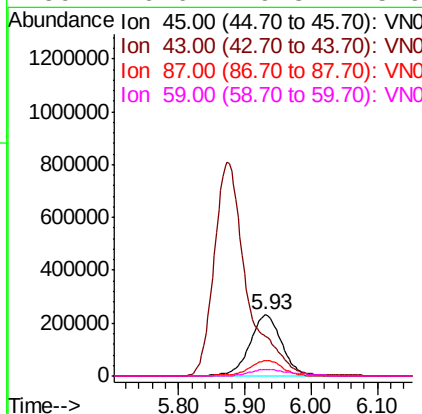
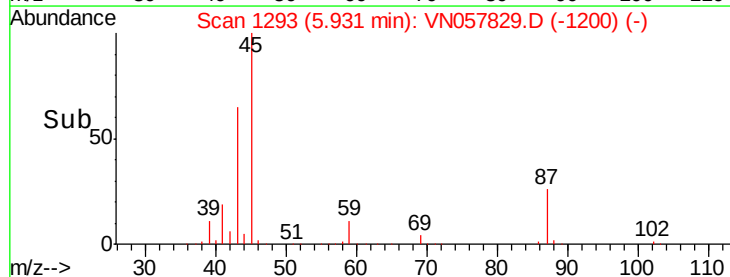
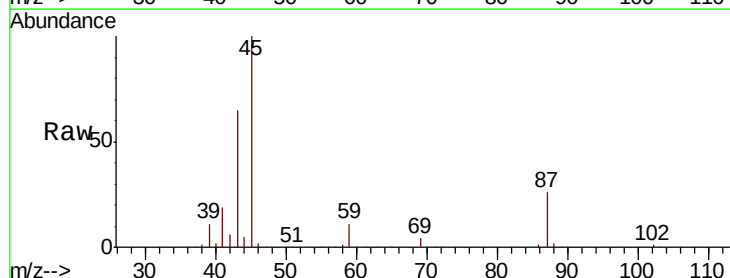
RT: 5.93 min Scan# 1293

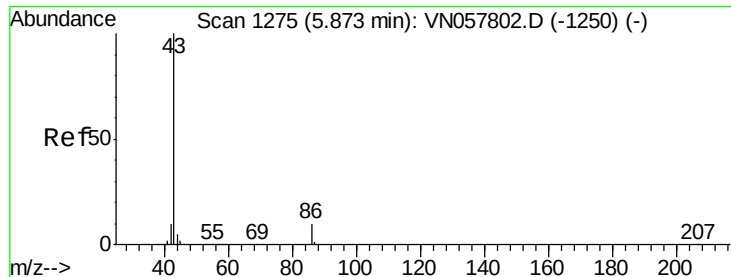
Delta R.T. 0.00 min

Lab File: VN057829.D

Acq: 10 Sep 2019 2:28

Tgt Ion:	45	Resp:	772484
Ion	Ratio	Lower	Upper
45	100		
43	63.2	51.4	77.2
87	25.5	21.3	31.9
59	10.6	9.3	13.9





#23

Vinyl Acetate

Concen: 252.403 ug/l

RT: 5.87 min Scan# 1275

Delta R.T. 0.00 min

Lab File: VN057829.D

Acq: 10 Sep 2019 2:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 2764695

Ion Ratio Lower Upper

43 100

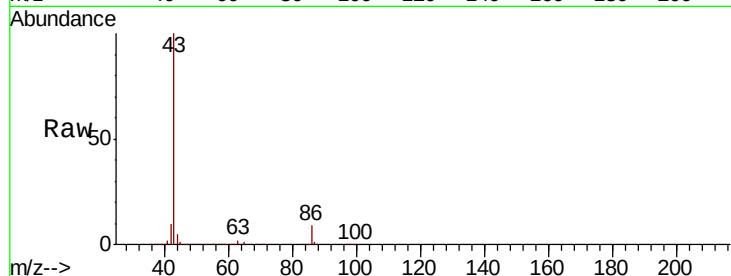
86 9.4 7.7 11.5

Manual Integrations

APPROVED

MMDadoda

9/13/2019 5:16:22 AM



Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-1250) (-)

Ion 86.00 (85.70 to 86.70): VN057802.D (-1250) (-)

5.87

800000

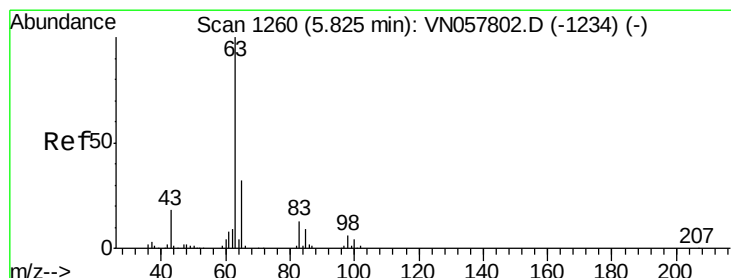
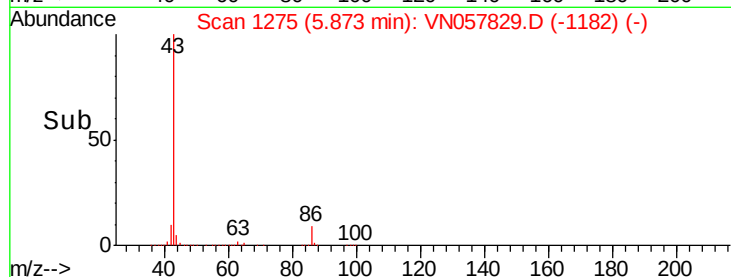
600000

400000

200000

0

Time-->



#24

1,1-Dichloroethane

Concen: 48.192 ug/l

RT: 5.82 min Scan# 1260

Delta R.T. 0.00 min

Lab File: VN057829.D

Acq: 10 Sep 2019 2:28

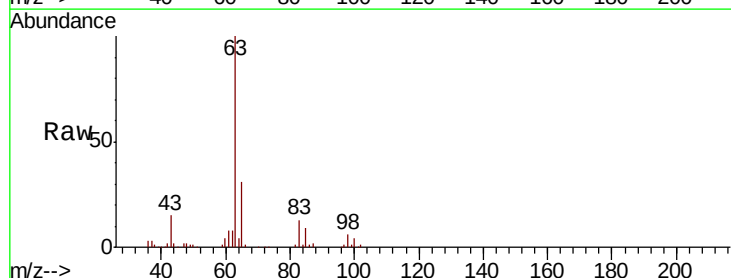
Tgt Ion: 63 Resp: 407074

Ion Ratio Lower Upper

63 100

98 5.8 3.0 9.2

100 4.0 2.0 5.8



Abundance Ion 62.90 (62.60 to 63.60): VN057829.D (-1167) (-)

Ion 97.90 (97.60 to 98.60): VN057829.D (-1167) (-)

Ion 99.90 (99.60 to 100.60): VN057829.D (-1167) (-)

5.82

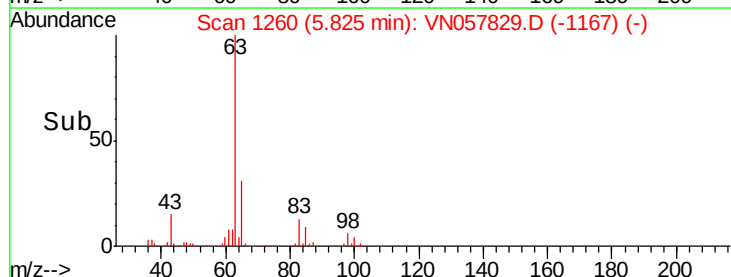
150000

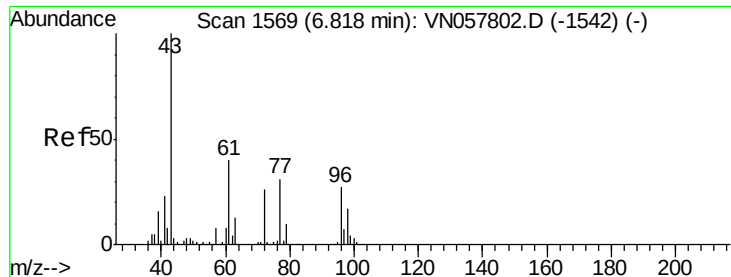
100000

50000

0

Time-->





#25

2-Butanone

Concen: 231.025 ug/l

RT: 6.82 min Scan# 1569

Delta R.T. 0.00 min

Lab File: VN057829.D

Acq: 10 Sep 2019 2:28

Tot Ion: 43 Resp: 702168

Ion Ratio Lower Upper

43 100

72 24.4 20.6 30.8

Instrument :

MSVOA_N

ClientSampled :

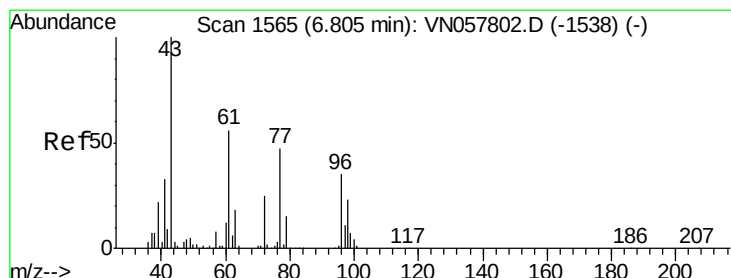
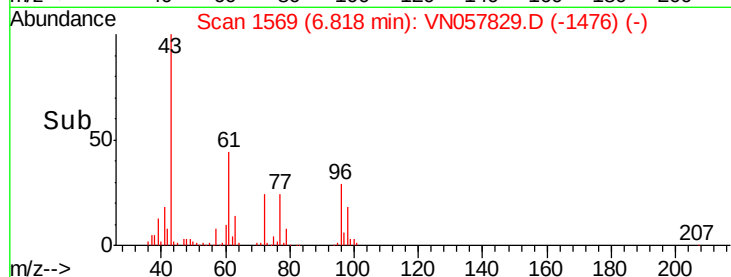
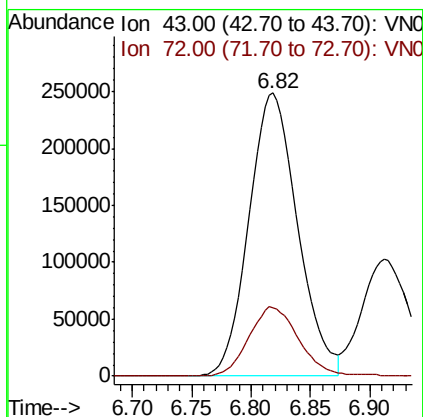
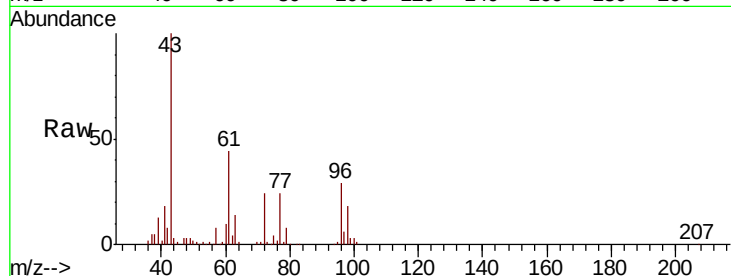
VSTDCCC050

Manual Integrations

APPROVED

MMDadoda

9/13/2019 5:16:22 AM



#26

2,2-Dichloropropane

Concen: 35.629 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. 0.00 min

Lab File: VN057829.D

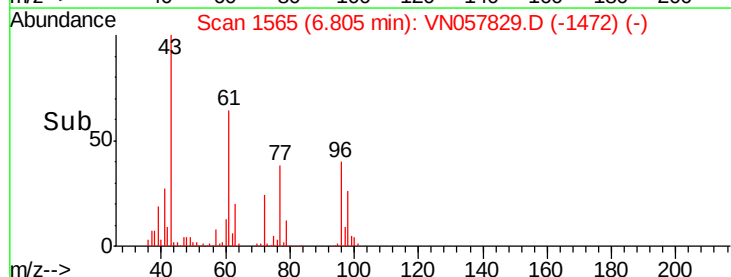
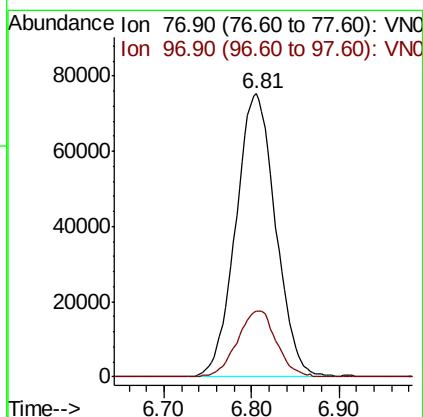
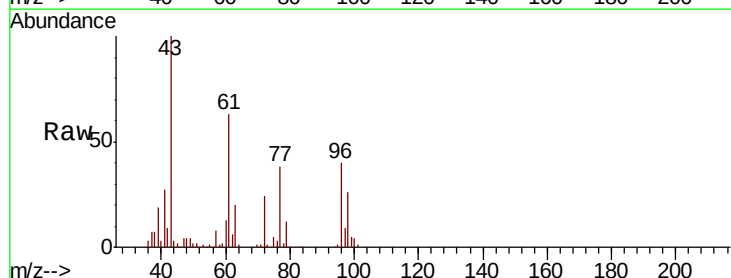
Acq: 10 Sep 2019 2:28

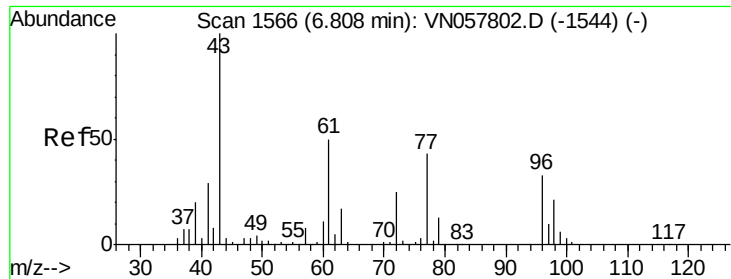
Tgt Ion: 77 Resp: 238171

Ion Ratio Lower Upper

77 100

97 23.0 11.1 33.3





#27

cis-1,2-Dichloroethene

Concen: 47.653 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. 0.00 min

Lab File: VN057829.D

Acq: 10 Sep 2019 2:28

Instrument :

MSVOA_N

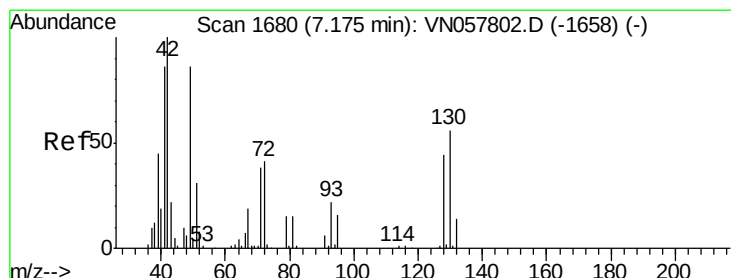
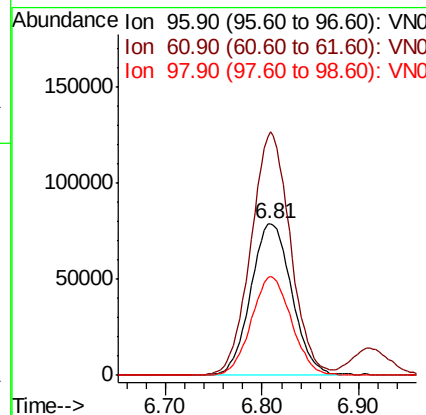
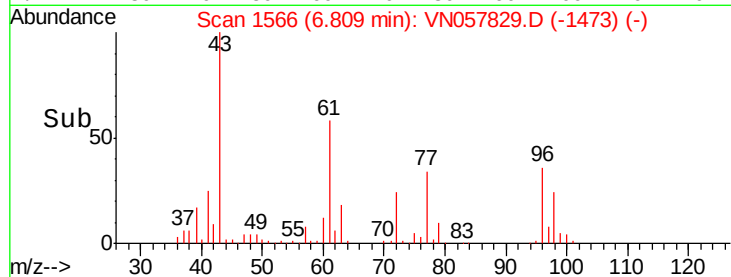
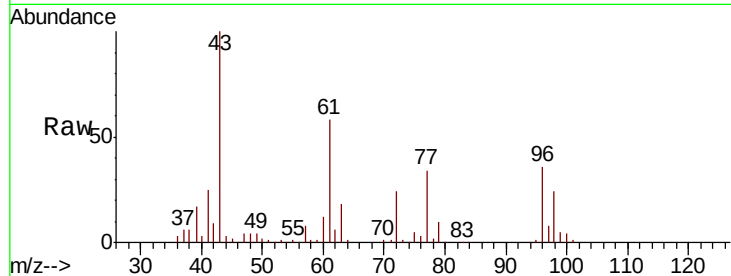
ClientSampleId :

VSTDCCC050

Tot Ion:	96	Resp:	232487
Ion Ratio	Lower	Upper	
96	100		
61	154.4	0.0	314.0
98	63.9	0.0	128.6

Manual Integrations
APPROVED

MMDadoda
9/13/2019 5:16:22 AM



#28

Bromochloromethane

Concen: 49.200 ug/l

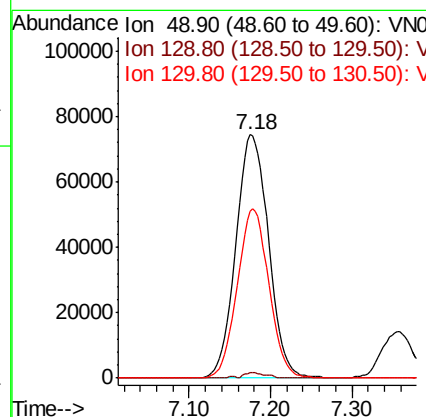
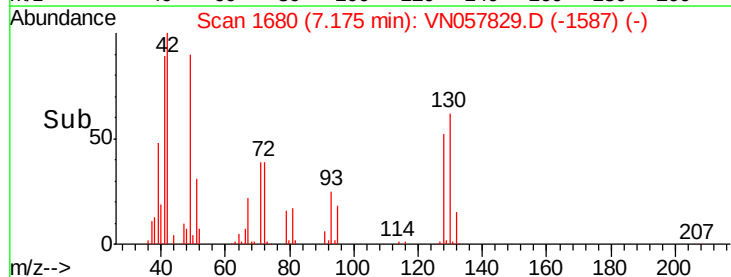
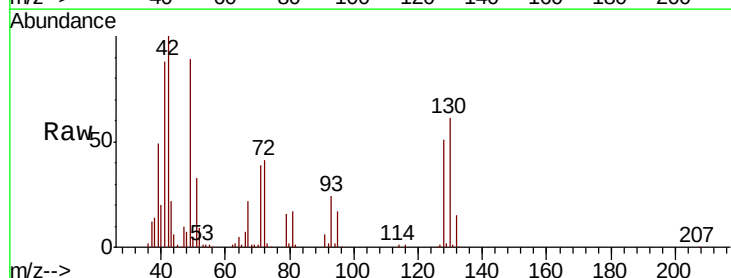
RT: 7.18 min Scan# 1680

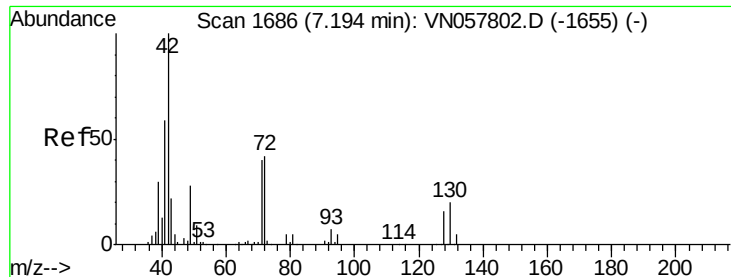
Delta R.T. 0.00 min

Lab File: VN057829.D

Acq: 10 Sep 2019 2:28

Tgt Ion:	49	Resp:	207624
Ion Ratio	Lower	Upper	
49	100		
129	1.4	0.0	3.8
130	67.2	53.0	79.6





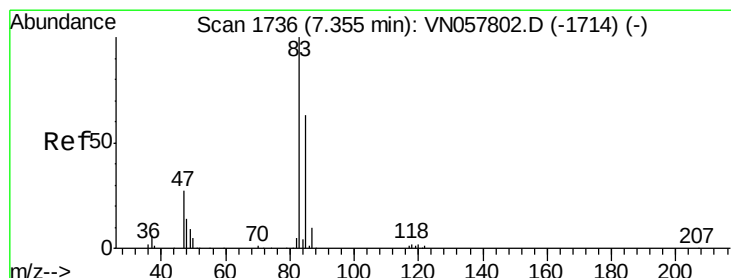
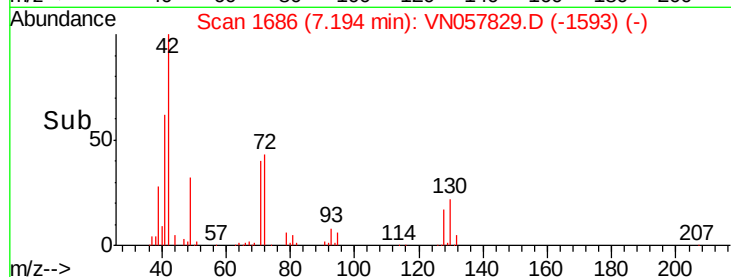
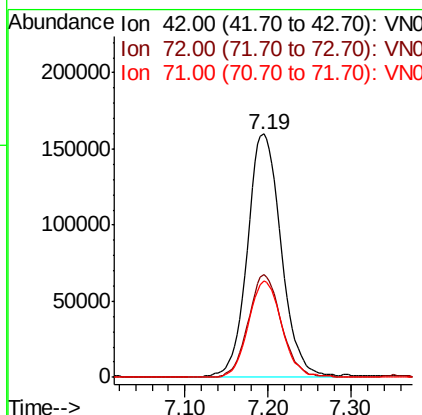
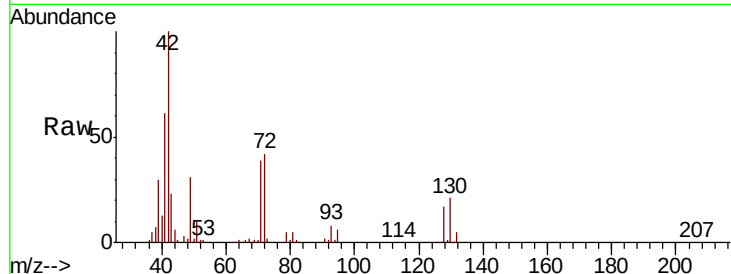
#29
Tetrahydrofuran
Concen: 241.555 ug/l
RT: 7.19 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VN057829.D
Acq: 10 Sep 2019 2:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.4	33.7	50.5
71	39.2	31.9	47.9

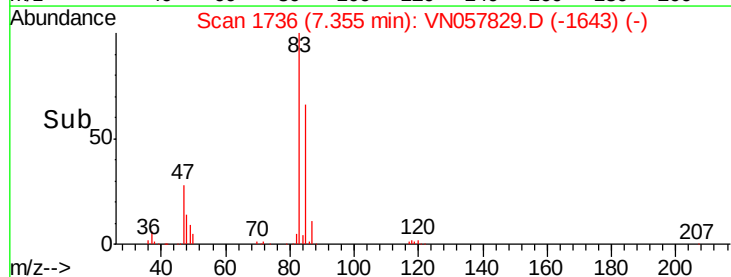
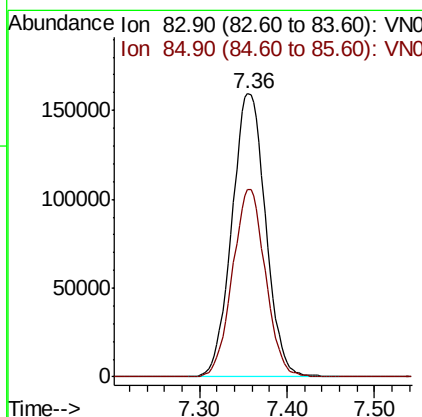
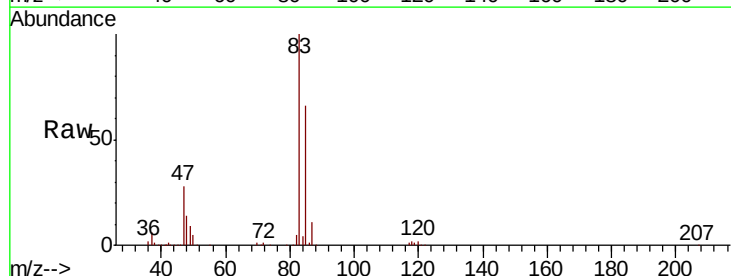
Manual Integrations
APPROVED

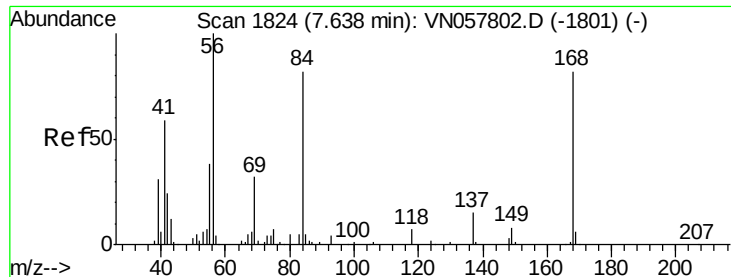
MMDadoda
9/13/2019 5:16:22 AM



#30
Chloroform
Concen: 48.322 ug/l
RT: 7.36 min Scan# 1736
Delta R.T. 0.00 min
Lab File: VN057829.D
Acq: 10 Sep 2019 2:28

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.1	50.6	75.8





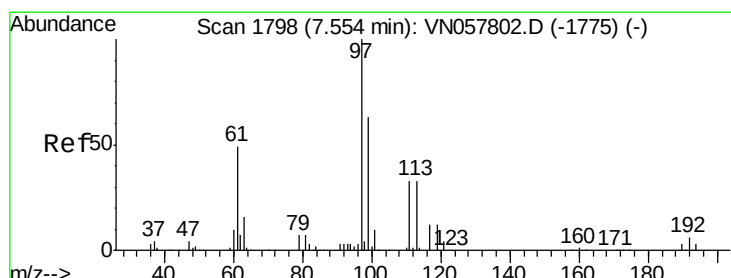
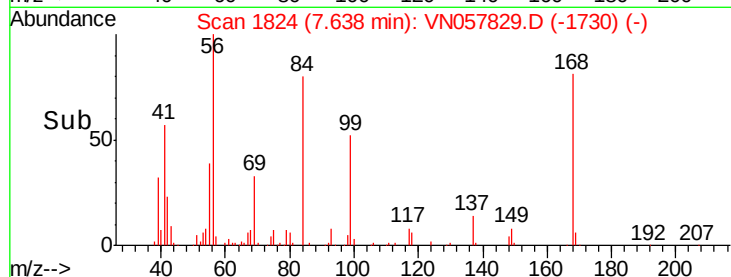
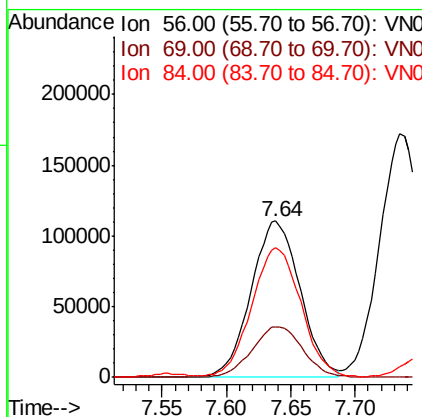
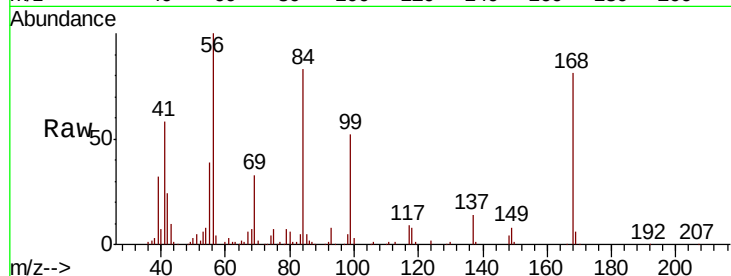
#31
Cyclohexane
Concen: 50.970 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. 0.00 min
Lab File: VN057829.D
Acq: 10 Sep 2019 2:28

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
56	100		
69	32.6	25.9	38.9
84	81.6	65.6	98.4

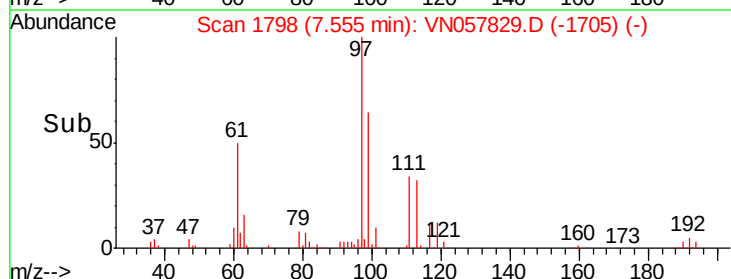
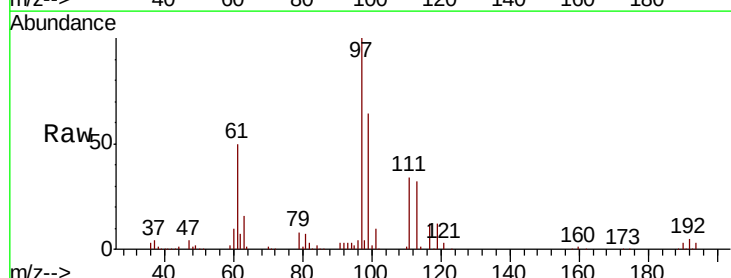
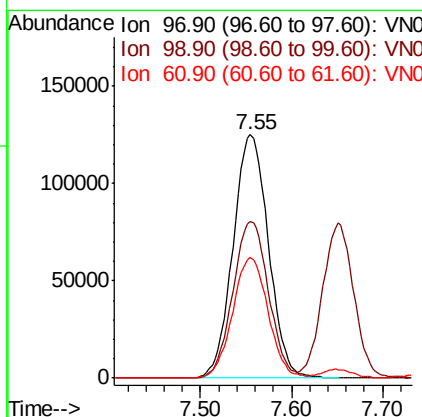
Manual Integrations
APPROVED

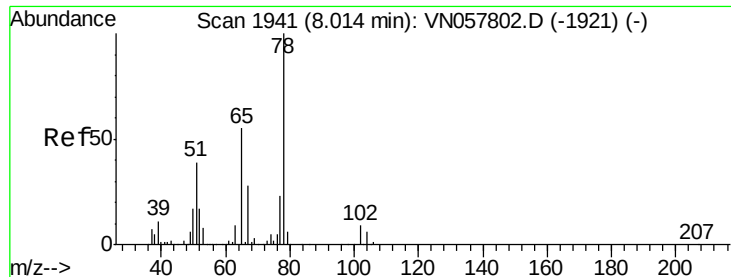
MMDadoda
9/13/2019 5:16:22 AM



#32
1,1,1-Trichloroethane
Concen: 48.270 ug/l
RT: 7.55 min Scan# 1798
Delta R.T. 0.00 min
Lab File: VN057829.D
Acq: 10 Sep 2019 2:28

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.7	51.0	76.4
61	49.9	39.0	58.6





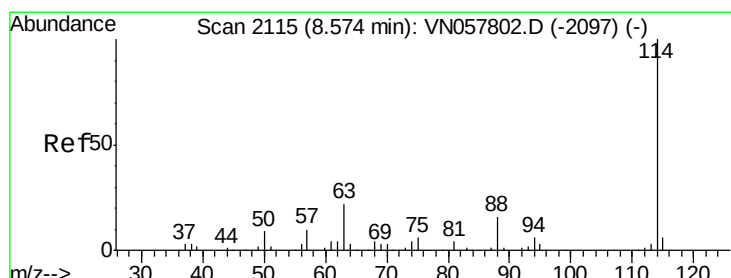
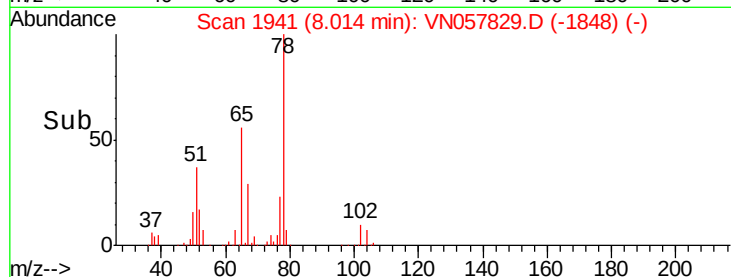
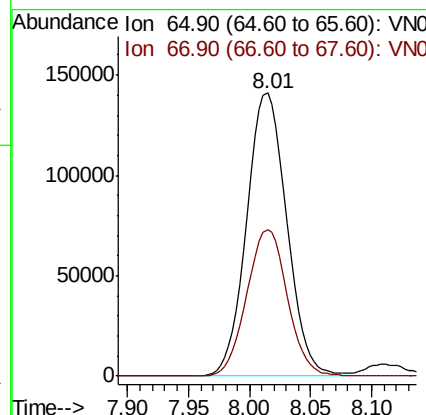
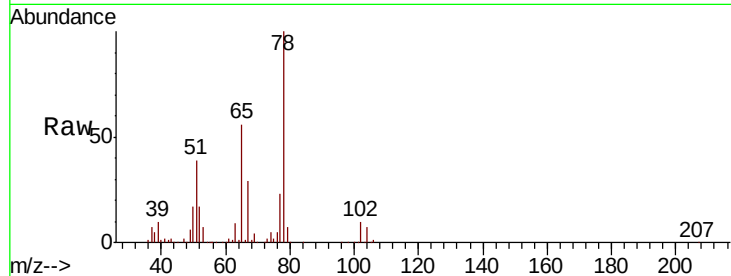
#33
 1,2-Dichloroethane-d4
 Concen: 50.107 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN057829.D
 Acq: 10 Sep 2019 2:28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	52.5	0.0	104.0	

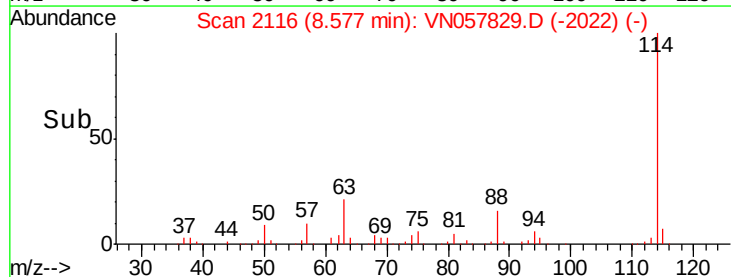
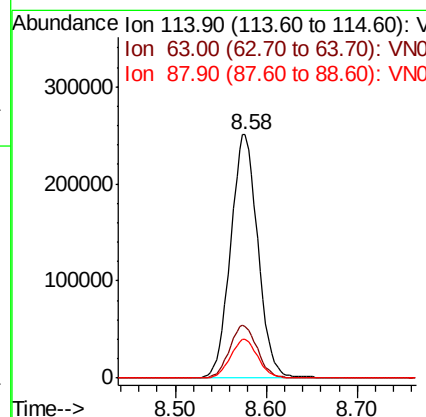
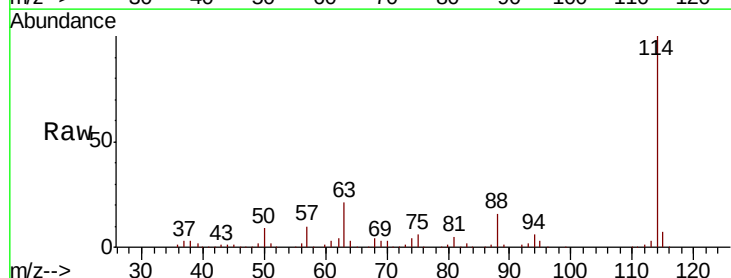
Manual Integrations
 APPROVED

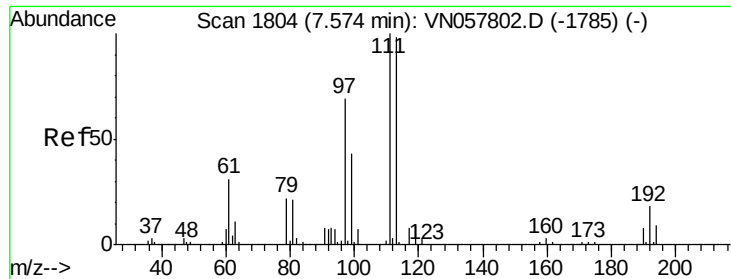
MMDadoda
 9/13/2019 5:16:22 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057829.D
 Acq: 10 Sep 2019 2:28

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	21.4	0.0	44.0	
88	15.8	0.0	31.4	





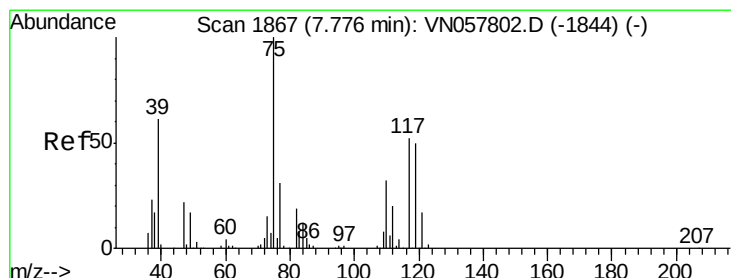
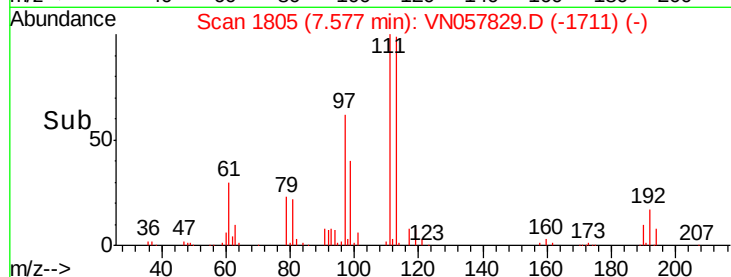
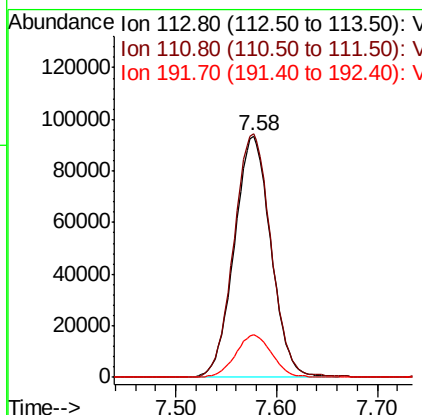
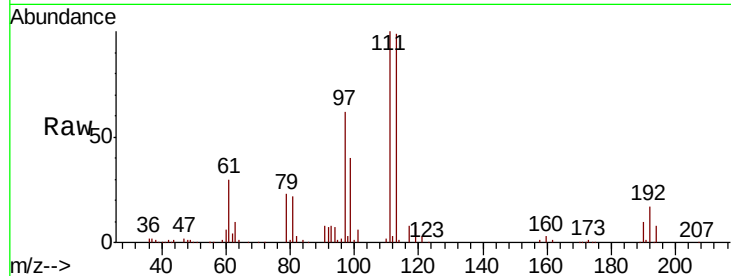
#35
 Dibromofluoromethane
 Concen: 48.820 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057829.D
 Acq: 10 Sep 2019 2:28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100	234707		
111	103.0	81.3	121.9	
192	17.6	14.6	22.0	

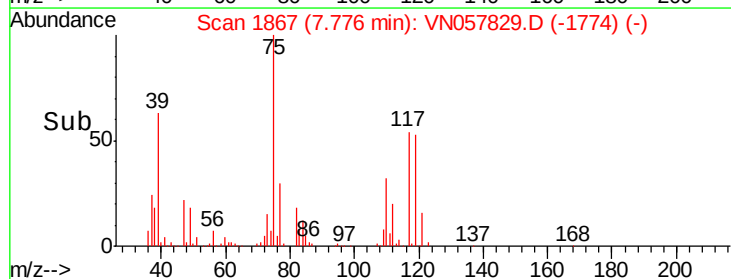
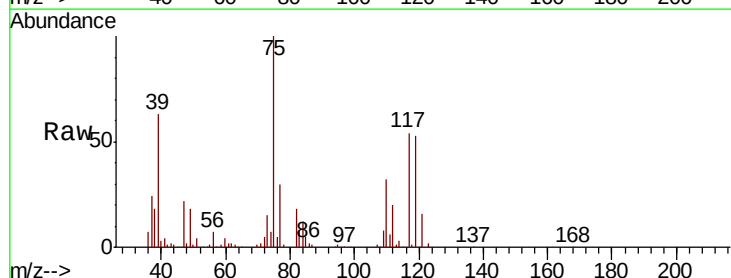
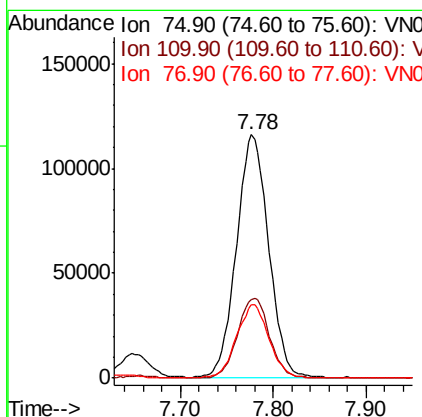
Manual Integrations
 APPROVED

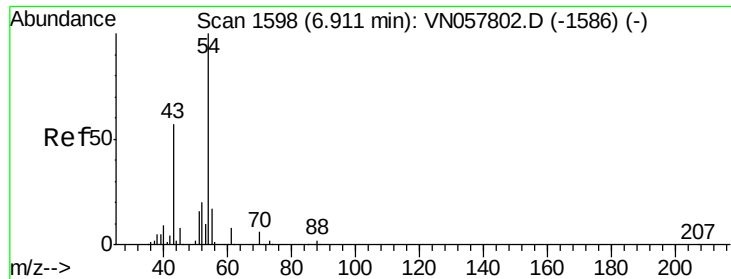
MMDadoda
 9/13/2019 5:16:22 AM



#36
 1,1-Dichloropropene
 Concen: 46.154 ug/l
 RT: 7.78 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN057829.D
 Acq: 10 Sep 2019 2:28

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	278810		
110	32.8	16.3	48.9	
77	30.7	25.0	37.4	





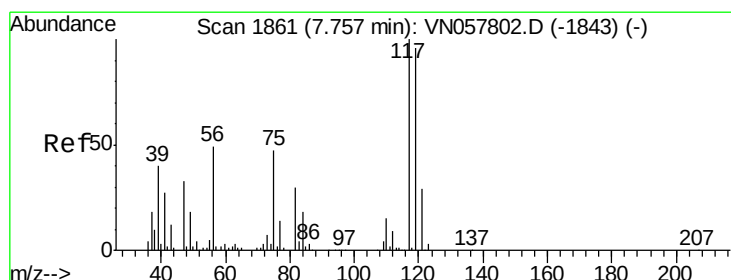
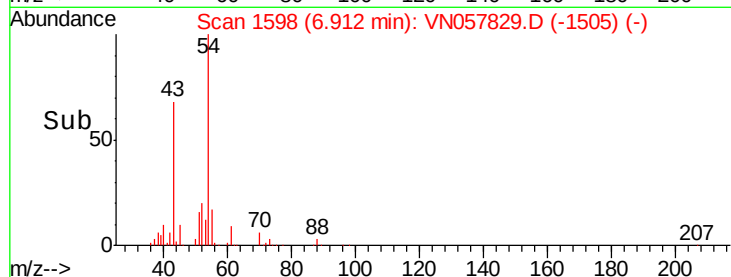
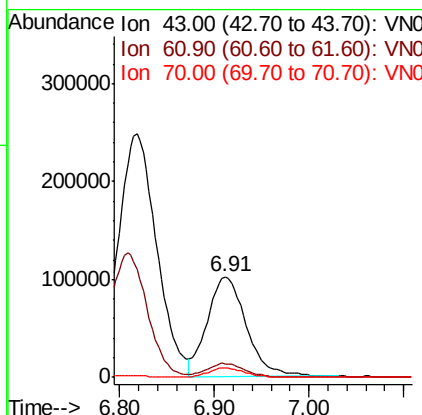
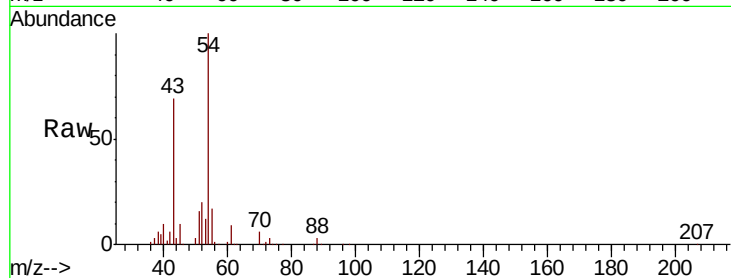
#37
Ethyl Acetate
Concen: 46.895 ug/l
RT: 6.91 min Scan# 1598
Delta R.T. 0.00 min
Lab File: VN057829.D
Acq: 10 Sep 2019 2:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
43	100			
61	13.2	10.5	15.7	
70	9.0	7.4	11.0	

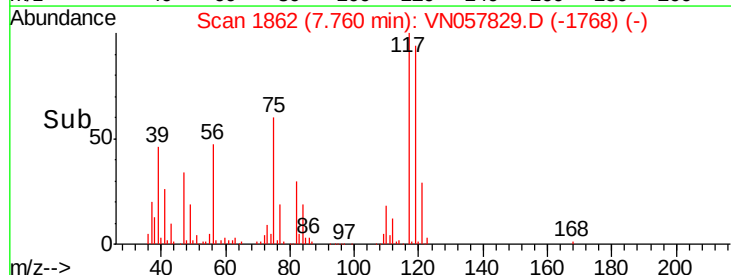
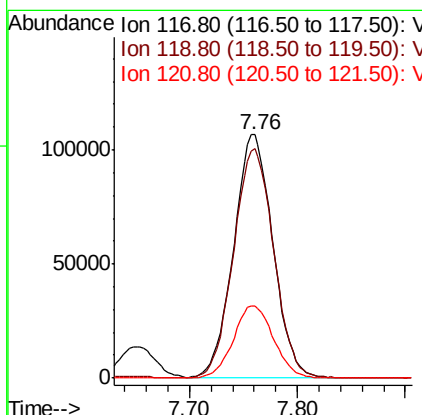
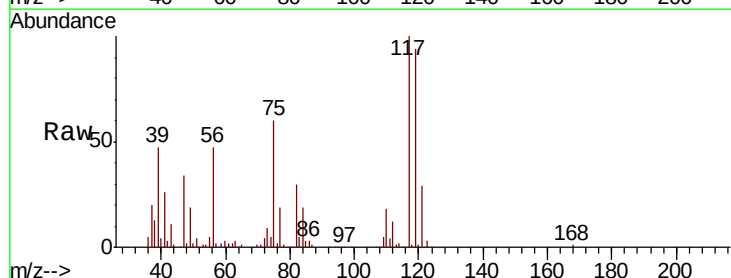
Manual Integrations
APPROVED

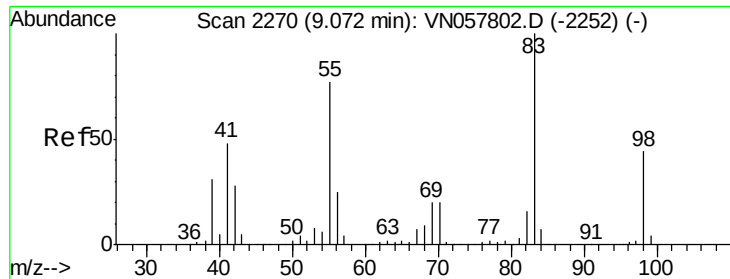
MMDadoda
9/13/2019 5:16:22 AM



#38
Carbon Tetrachloride
Concen: 48.781 ug/l
RT: 7.76 min Scan# 1862
Delta R.T. 0.00 min
Lab File: VN057829.D
Acq: 10 Sep 2019 2:28

Tgt Ion	Ratio	Resp	Lower	Upper
117	100			
119	94.3	76.9	115.3	
121	29.6	23.4	35.2	





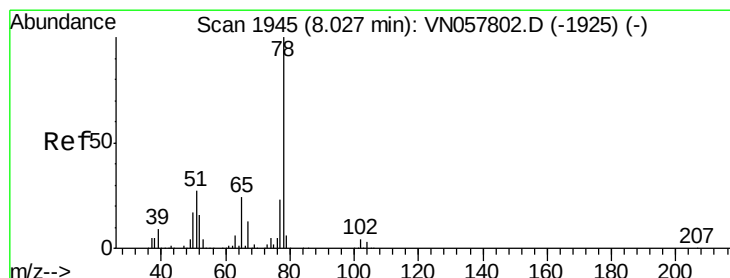
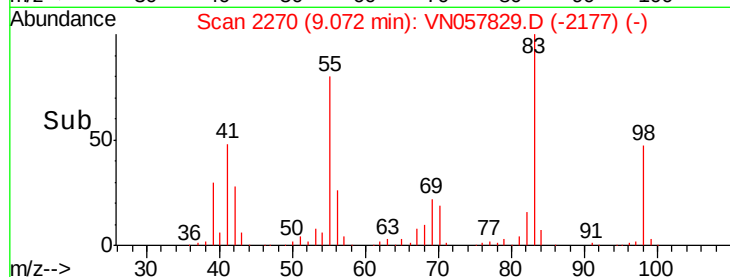
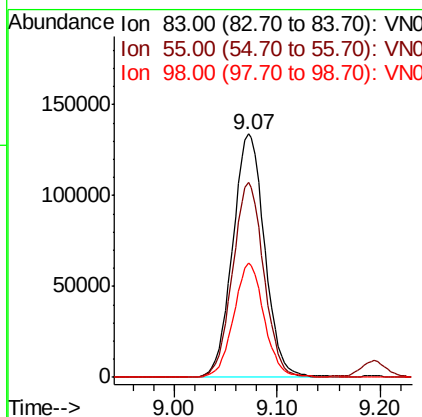
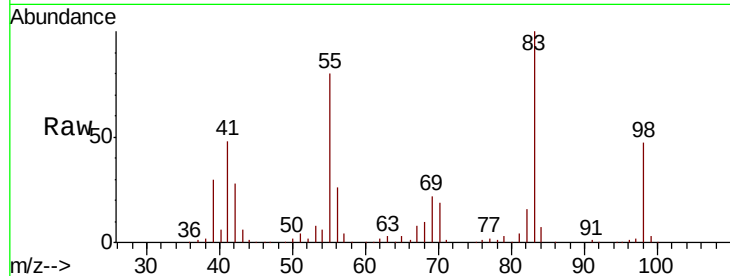
#39
Methylvlcyclohexane
Concen: 45.470 ug/l
RT: 9.07 min Scan# 2270
Delta R.T. 0.00 min
Lab File: VN057829.D
Acq: 10 Sep 2019 2:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
83	100	288750		
55	80.0		61.6	92.4
98	47.0		34.9	52.3

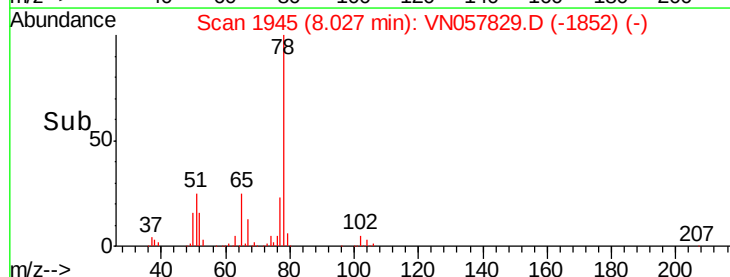
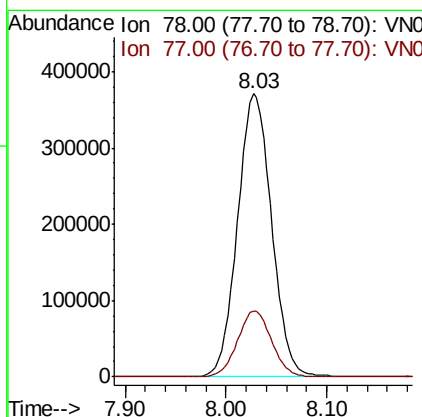
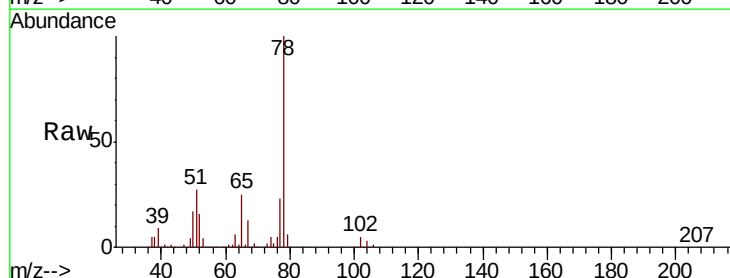
Manual Integrations
APPROVED

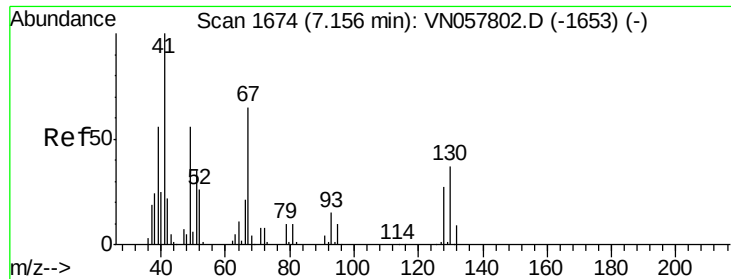
MMDadoda
9/13/2019 5:16:22 AM



#40
Benzene
Concen: 47.628 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN057829.D
Acq: 10 Sep 2019 2:28

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	866217		
77	23.3		18.3	27.5





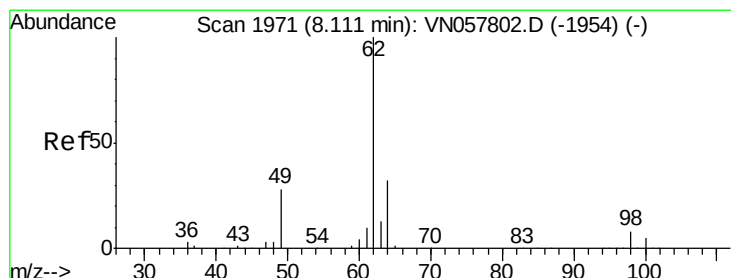
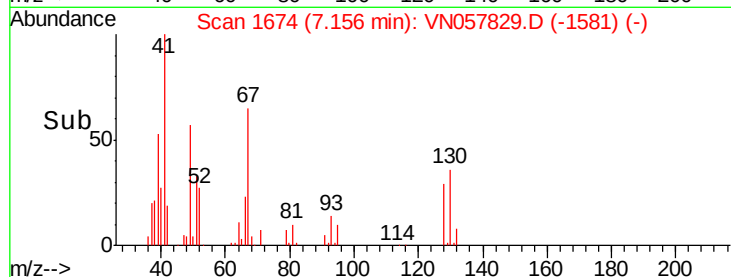
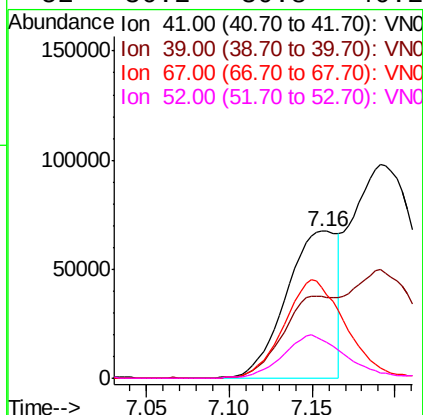
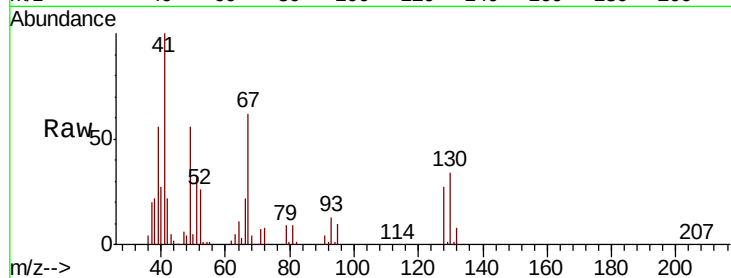
#41
Methacrylonitrile
Concen: 51.244 ug/l
RT: 7.16 min Scan# 1674
Delta R.T. 0.00 min
Lab File: VN057829.D
Acq: 10 Sep 2019 2:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	53.1	51.0	76.6	
67	81.5	70.7	106.1	
52	36.2	30.8	46.2	

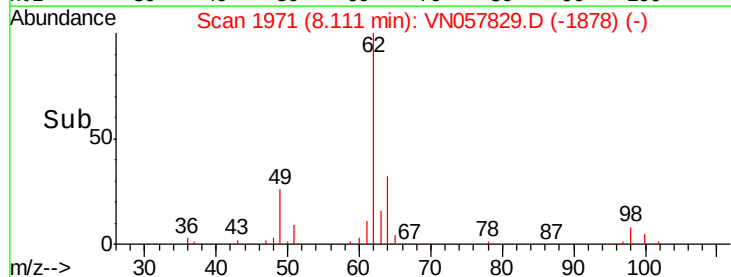
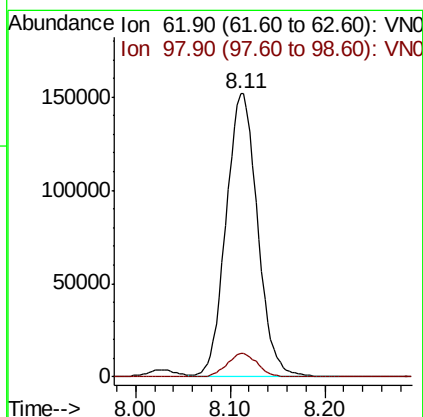
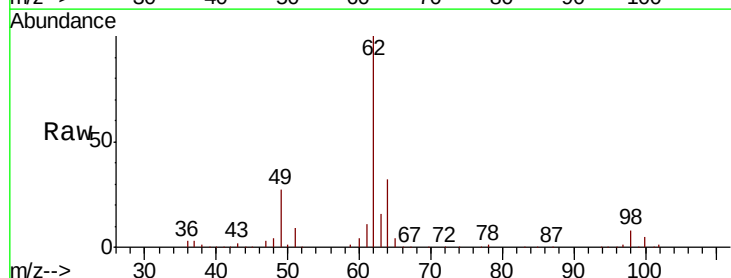
Manual Integrations
APPROVED

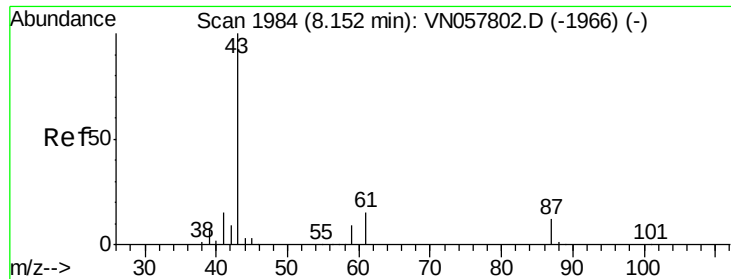
MMDadoda
9/13/2019 5:16:22 AM



#42
1,2-Dichloroethane
Concen: 48.221 ug/l
RT: 8.11 min Scan# 1971
Delta R.T. 0.00 min
Lab File: VN057829.D
Acq: 10 Sep 2019 2:28

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	8.0	0.0	15.8	





#43

Isopropyl Acetate

Concen: 48.806 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN057829.D

Acq: 10 Sep 2019 2:28

Instrument :

MSVOA_N

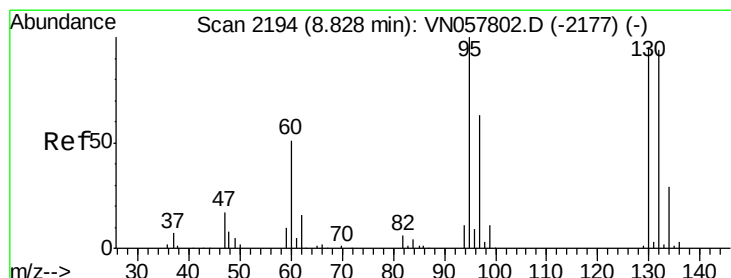
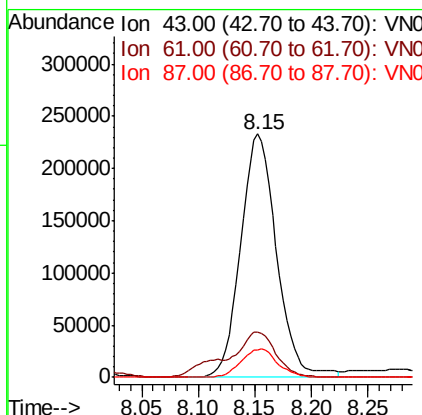
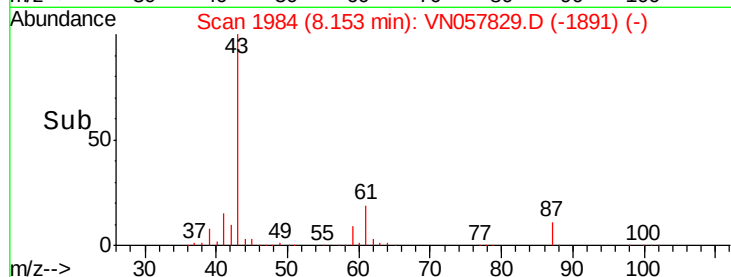
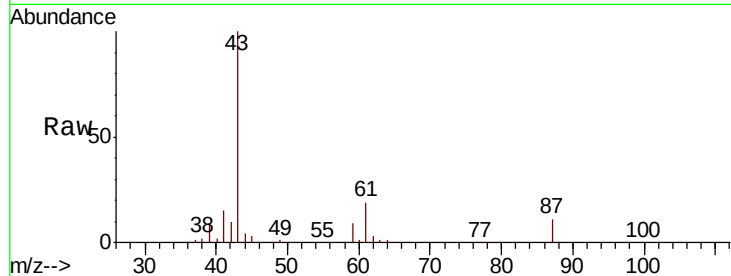
ClientSampleId :

VSTDCCC050

Tot Ion:	43	Resp:	512266
Ion	Ratio	Lower	Upper
43	100		
61	25.1	20.1	30.1
87	11.9	9.5	14.3

Manual Integrations
APPROVED

MMDadoda
9/13/2019 5:16:22 AM



#44

Trichloroethene

Concen: 46.783 ug/l

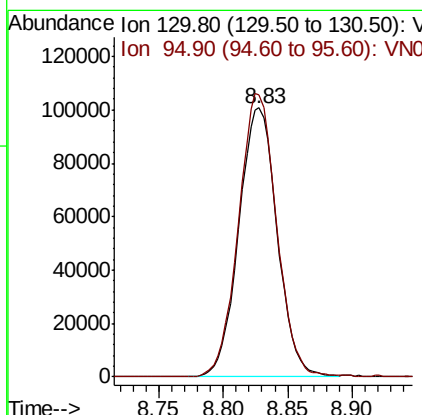
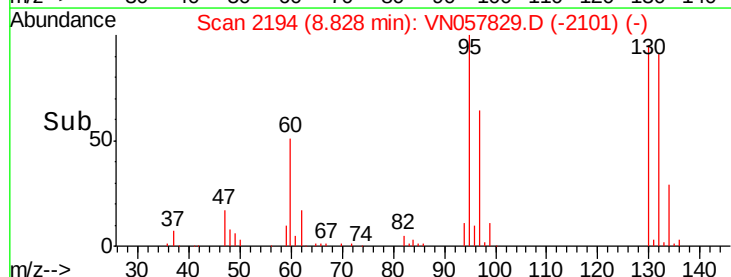
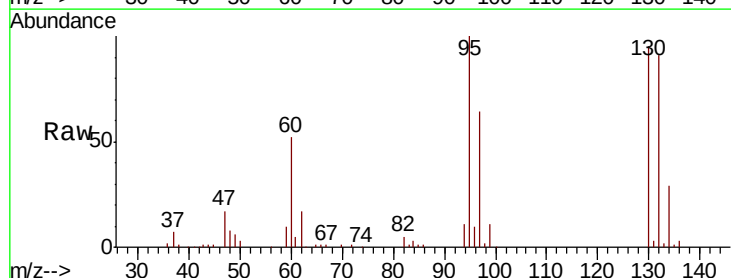
RT: 8.83 min Scan# 2194

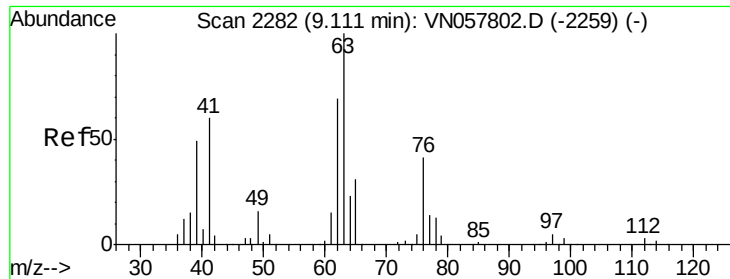
Delta R.T. 0.00 min

Lab File: VN057829.D

Acq: 10 Sep 2019 2:28

Tgt Ion:	130	Resp:	208690
Ion	Ratio	Lower	Upper
130	100		
95	105.1	0.0	211.4





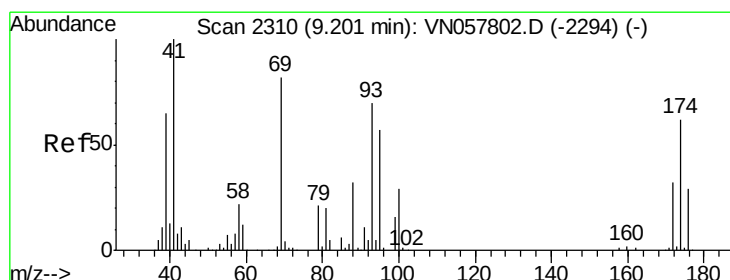
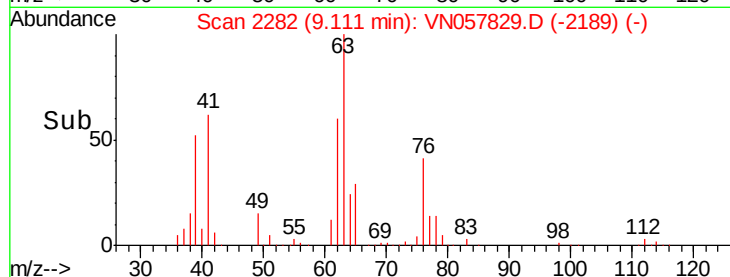
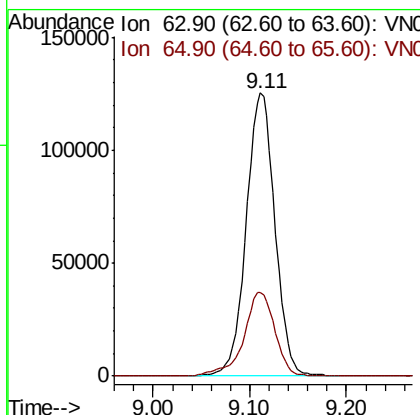
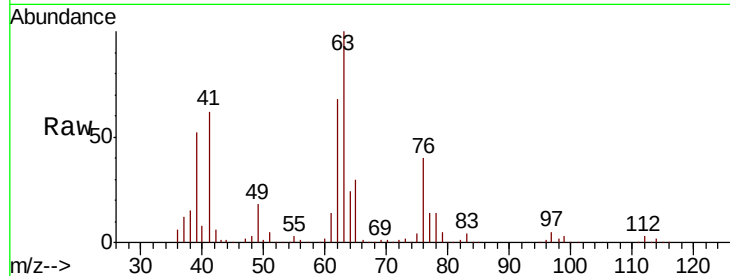
#45
 1,2-Dichloropropane
 Concen: 48.819 ug/l
 RT: 9.11 min Scan# 2282
 Delta R.T. 0.00 min
 Lab File: VN057829.D
 Acq: 10 Sep 2019 2:28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
63	100		
65	29.7	24.8	37.2

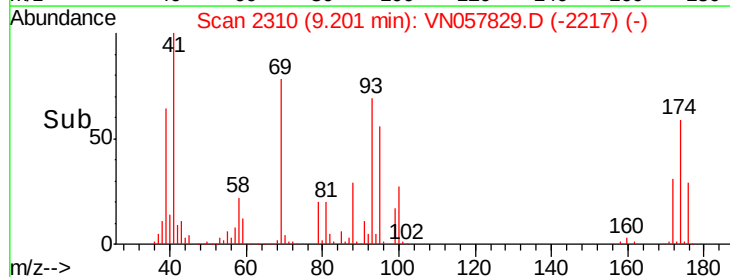
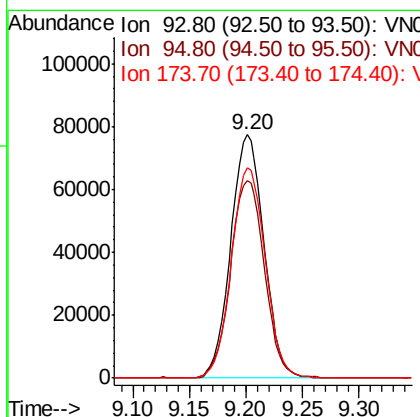
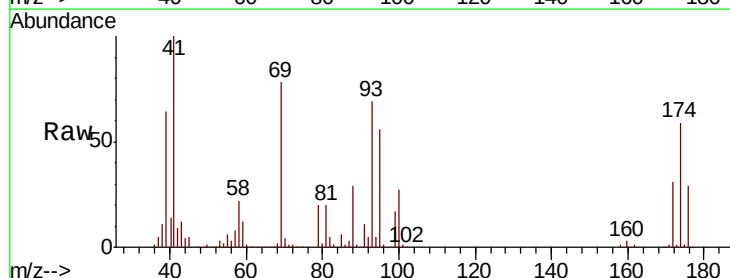
Manual Integrations
 APPROVED

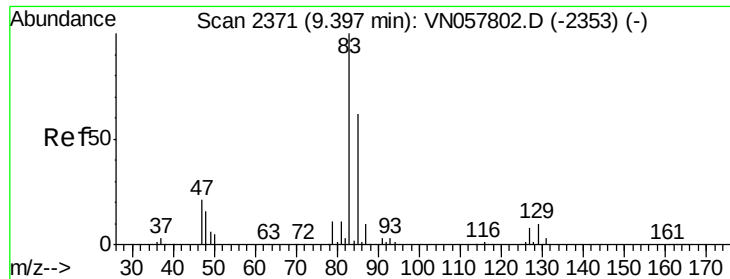
MMDadoda
 9/13/2019 5:16:22 AM



#46
 Dibromomethane
 Concen: 49.528 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. 0.00 min
 Lab File: VN057829.D
 Acq: 10 Sep 2019 2:28

Tgt Ion	Ratio	Lower	Upper
93	100		
95	83.0	65.9	98.9
174	88.1	71.8	107.6





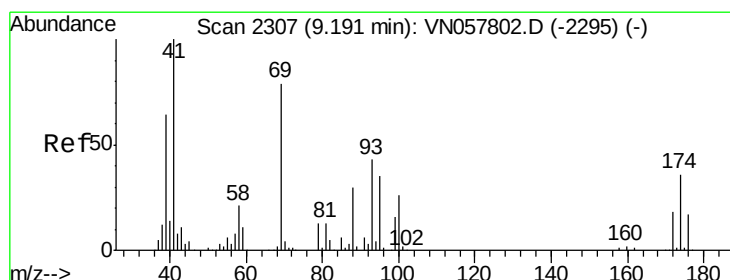
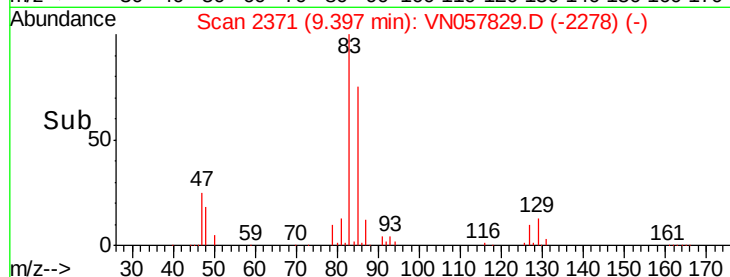
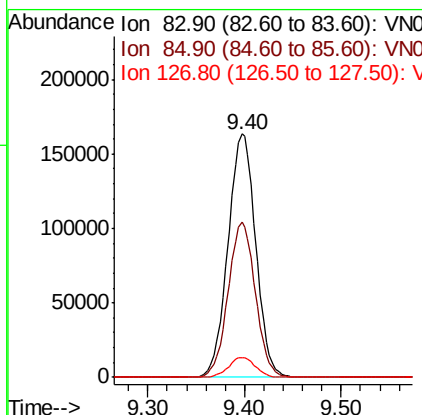
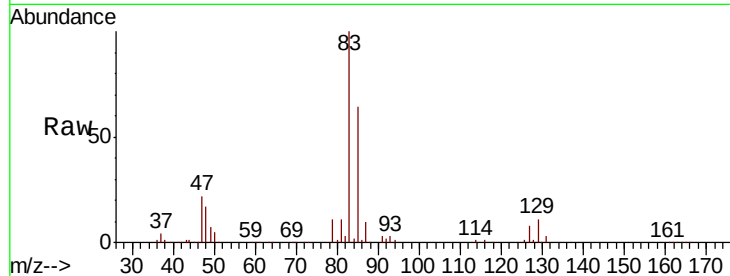
#47
Bromodichloromethane
Concen: 50.916 ug/l
RT: 9.40 min Scan# 2371
Delta R.T. 0.00 min
Lab File: VN057829.D
Acq: 10 Sep 2019 2:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	83	Resp	325151
Ion Ratio	Lower	Upper	
83	100		
85	63.7	49.9	74.9
127	8.2	6.5	9.7

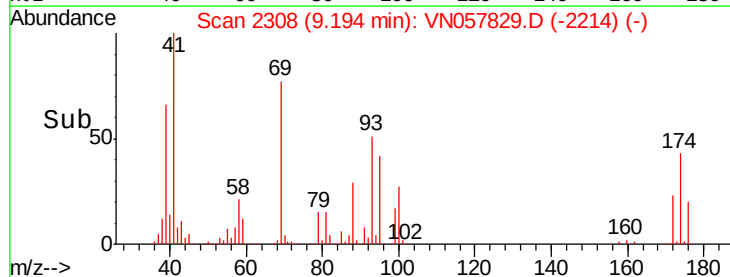
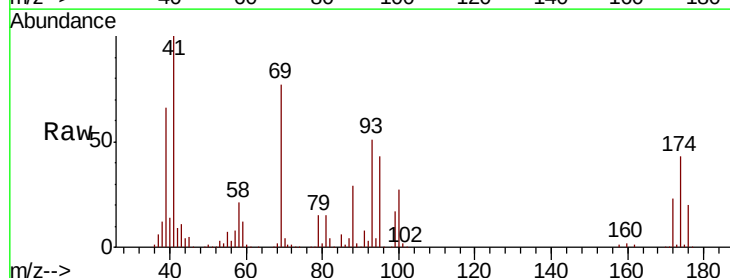
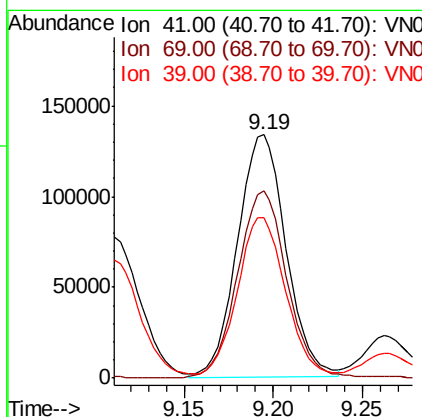
Manual Integrations
APPROVED

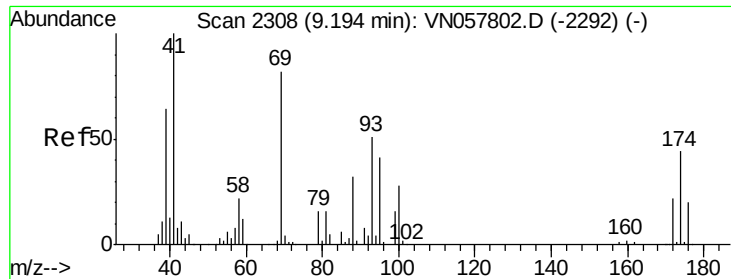
MMDadoda
9/13/2019 5:16:22 AM



#48
Methyl methacrylate
Concen: 47.609 ug/l
RT: 9.19 min Scan# 2308
Delta R.T. 0.00 min
Lab File: VN057829.D
Acq: 10 Sep 2019 2:28

Tgt Ion	41	Resp	253480
Ion Ratio	Lower	Upper	
41	100		
69	78.2	62.7	94.1
39	66.1	52.7	79.1





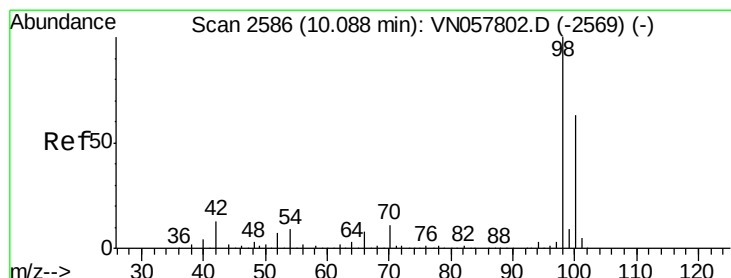
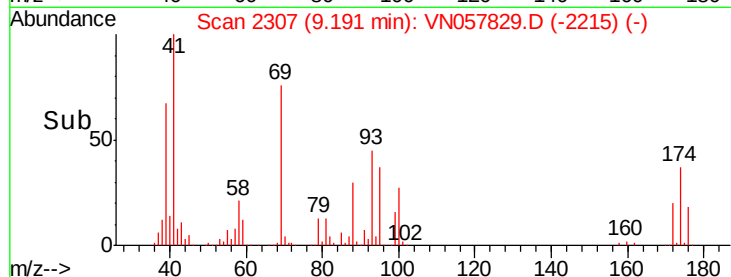
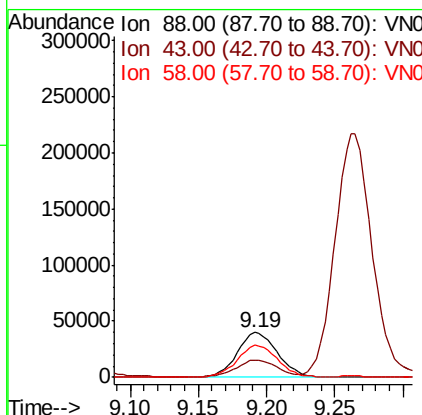
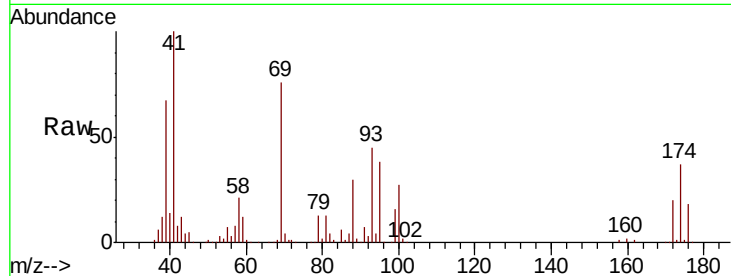
#49
1,4-Dioxane
Concen: 913.484 ug/l
RT: 9.19 min Scan# 2307
Delta R.T. -0.00 min
Lab File: VN057829.D
Acq: 10 Sep 2019 2:28

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
88	100		
43	37.8	28.5	42.7
58	71.6	55.8	83.6

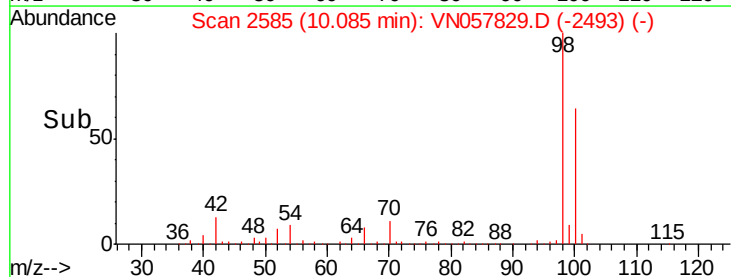
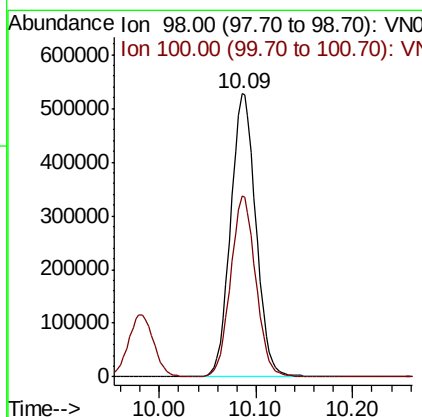
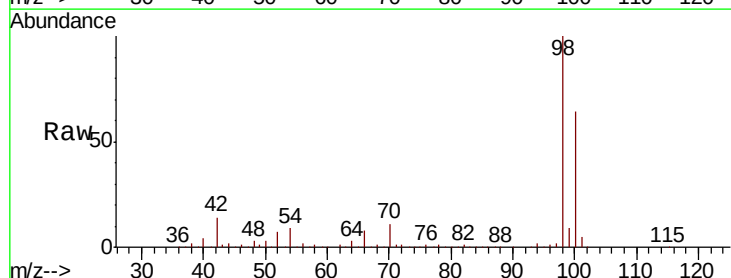
Manual Integrations
APPROVED

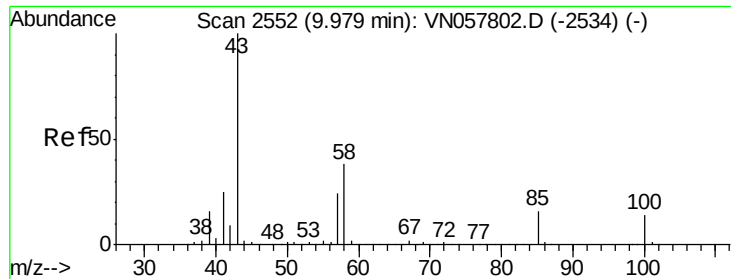
MMDadoda
9/13/2019 5:16:22 AM



#50
Toluene-d8
Concen: 51.345 ug/l
RT: 10.09 min Scan# 2585
Delta R.T. -0.00 min
Lab File: VN057829.D
Acq: 10 Sep 2019 2:28

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.6	50.3	75.5





#51

4-Methyl-2-Pentanone

Concen: 257.043 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN057829.D

Acq: 10 Sep 2019 2:28

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion: 43 Resp: 1596548

Ion Ratio Lower Upper

43 100

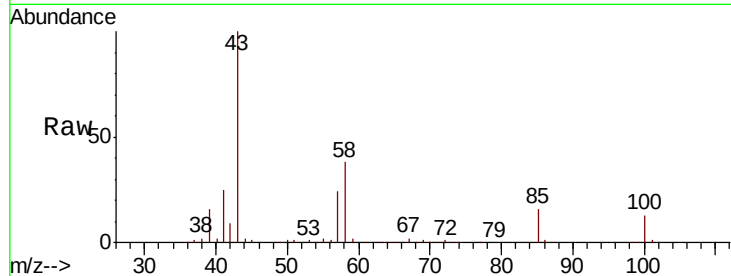
58 37.2 29.8 44.6

Manual Integrations

APPROVED

MMDadoda

9/13/2019 5:16:22 AM



Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-2534) (-)

Ion 58.00 (57.70 to 58.70): VN057802.D (-2534) (-)

9.98

800000

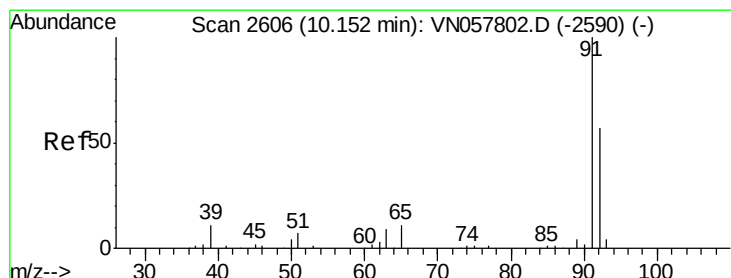
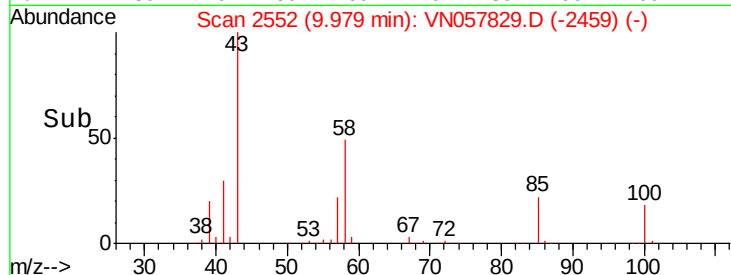
600000

400000

200000

0

Time-->



#52

Toluene

Concen: 48.553 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. 0.00 min

Lab File: VN057829.D

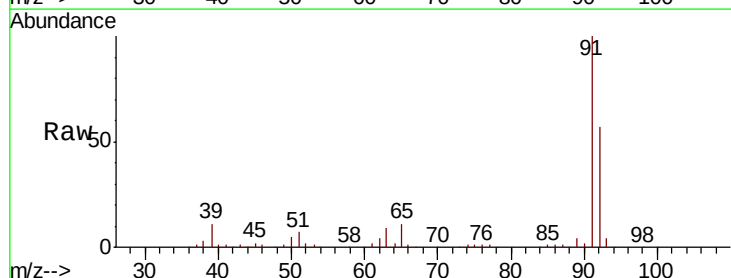
Acq: 10 Sep 2019 2:28

Tgt Ion: 92 Resp: 556173

Ion Ratio Lower Upper

92 100

91 176.7 141.0 211.6



Abundance Ion 92.00 (91.70 to 92.70): VN057802.D (-2590) (-)

Ion 91.00 (90.70 to 91.70): VN057802.D (-2590) (-)

10.15

600000

500000

400000

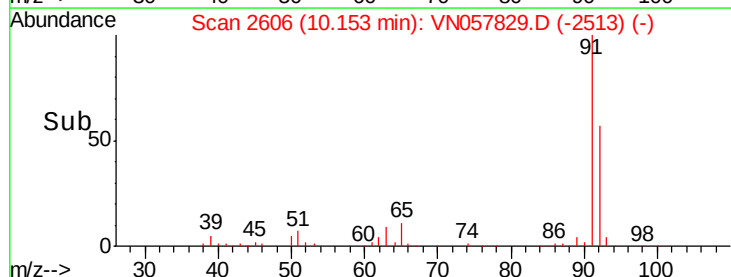
300000

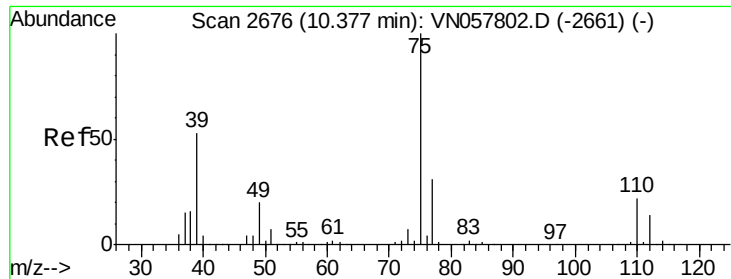
200000

100000

0

Time-->





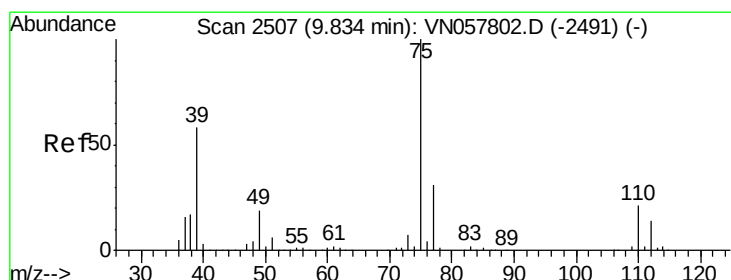
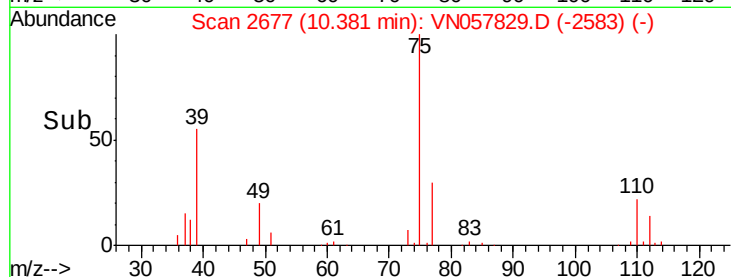
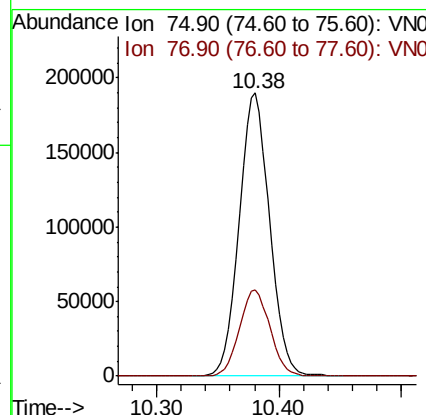
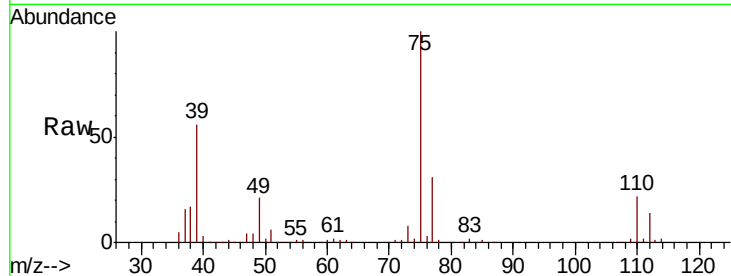
#53
 t-1,3-Dichloropropene
 Concen: 48.666 ug/l
 RT: 10.38 min Scan# 2677
 Delta R.T. 0.00 min
 Lab File: VN057829.D
 Acq: 10 Sep 2019 2:28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion: 75 Resp: 327268
 Ion Ratio Lower Upper
 75 100
 77 30.6 24.5 36.7

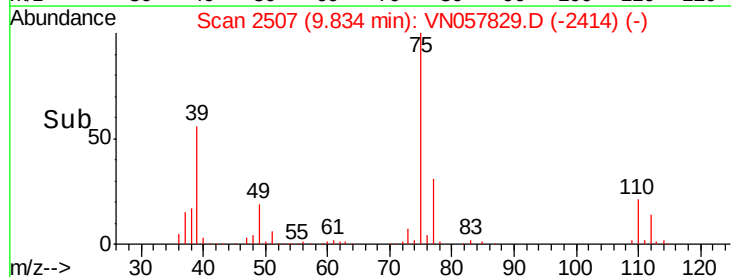
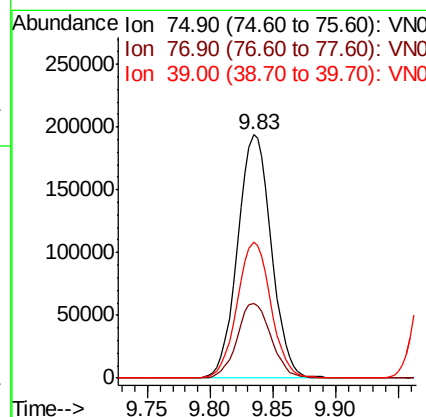
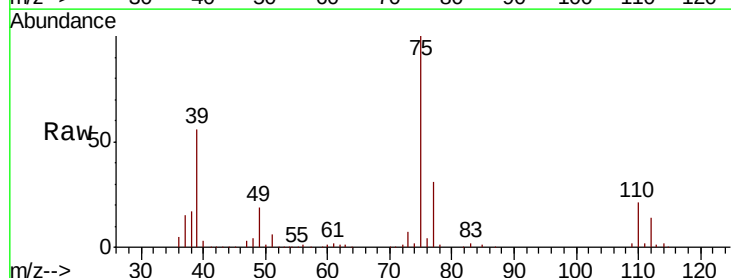
Manual Integrations
 APPROVED

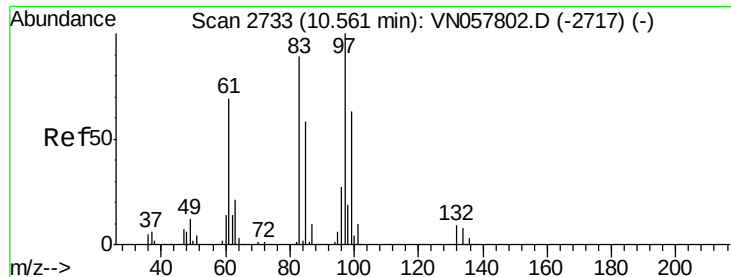
MMDadoda
 9/13/2019 5:16:22 AM



#54
 cis-1,3-Dichloropropene
 Concen: 48.732 ug/l
 RT: 9.83 min Scan# 2507
 Delta R.T. 0.00 min
 Lab File: VN057829.D
 Acq: 10 Sep 2019 2:28

Tgt Ion: 75 Resp: 361819
 Ion Ratio Lower Upper
 75 100
 77 30.9 24.8 37.2
 39 55.5 46.2 69.4





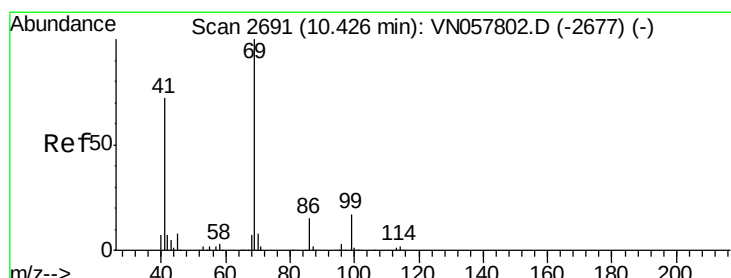
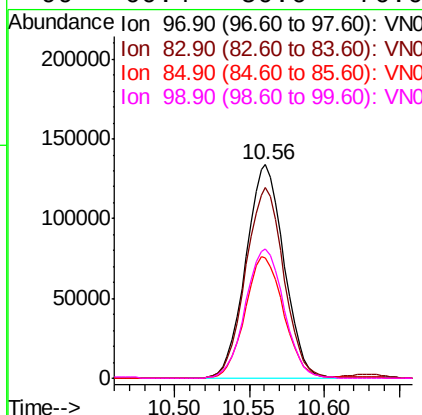
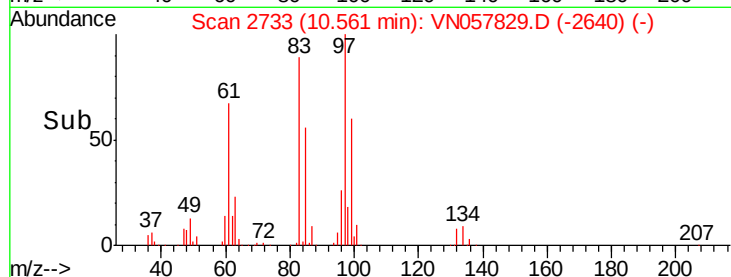
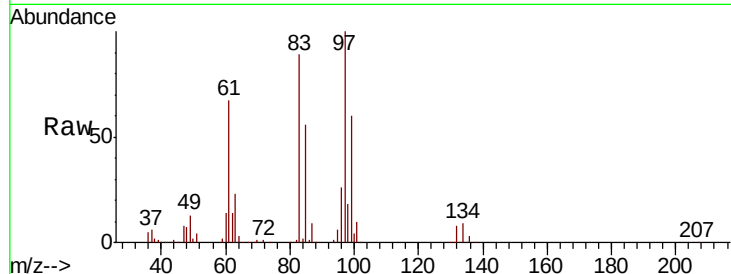
#55
 1,1,2-Trichloroethane
 Concen: 48.961 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN057829.D
 Acq: 10 Sep 2019 2:28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion:	97	Resp:	237569
Ion	Ratio	Lower	Upper
97	100		
83	89.2	70.8	106.2
85	56.5	46.0	69.0
99	60.4	50.6	76.0

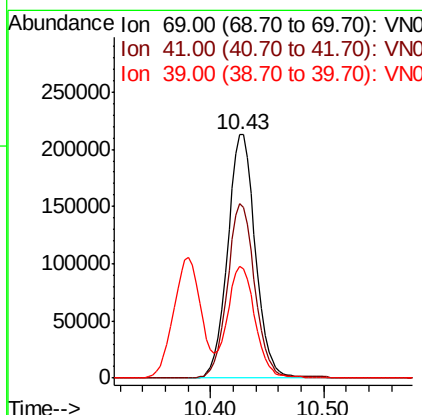
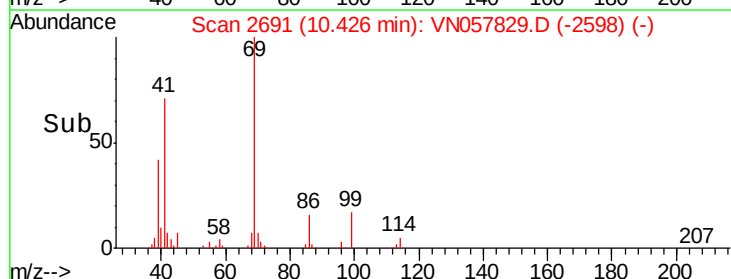
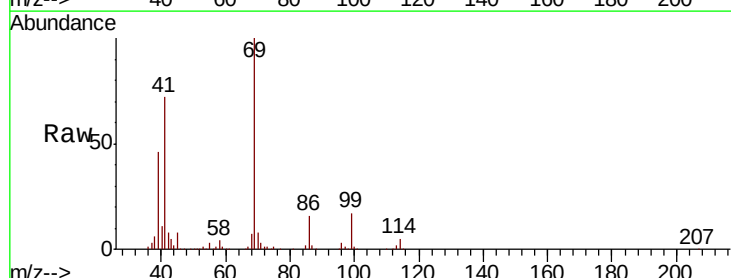
Manual Integrations
 APPROVED

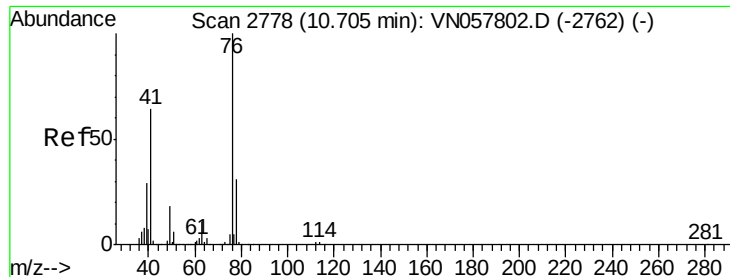
MMDadoda
 9/13/2019 5:16:22 AM



#56
 Ethyl methacrylate
 Concen: 49.826 ug/l
 RT: 10.43 min Scan# 2691
 Delta R.T. 0.00 min
 Lab File: VN057829.D
 Acq: 10 Sep 2019 2:28

Tgt Ion:	69	Resp:	364071
Ion	Ratio	Lower	Upper
69	100		
41	69.5	56.7	85.1
39	45.5	36.3	54.5





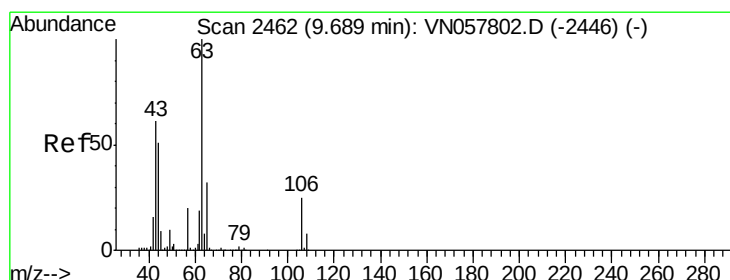
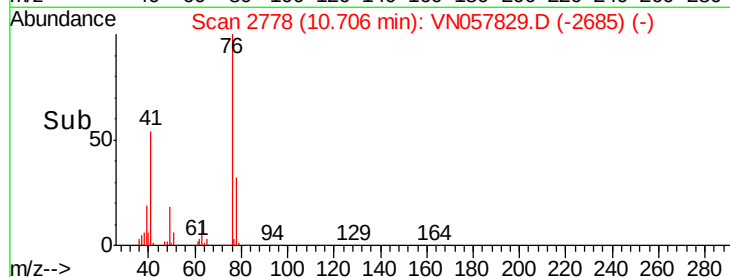
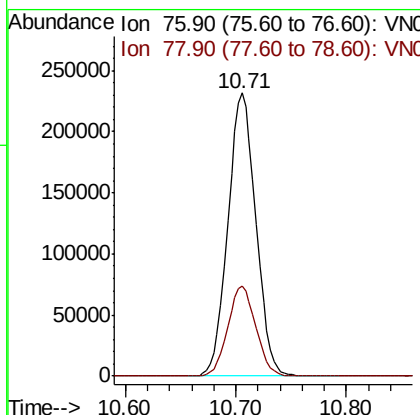
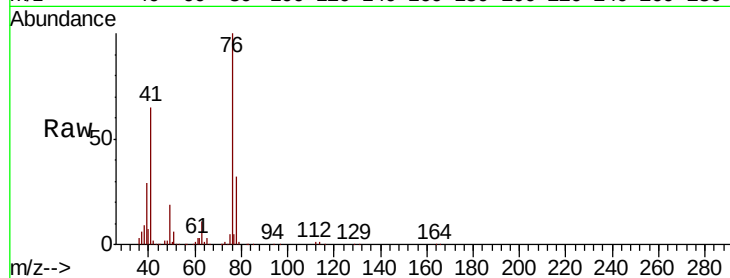
#57
 1,3-Dichloropropane
 Concen: 48.595 ug/l
 RT: 10.71 min Scan# 2778
 Delta R.T. 0.00 min
 Lab File: VN057829.D
 Acq: 10 Sep 2019 2:28

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDCCC050

Tot Ion: 76 Resp: 406359
 Ion Ratio Lower Upper
 76 100
 78 31.9 25.4 38.2

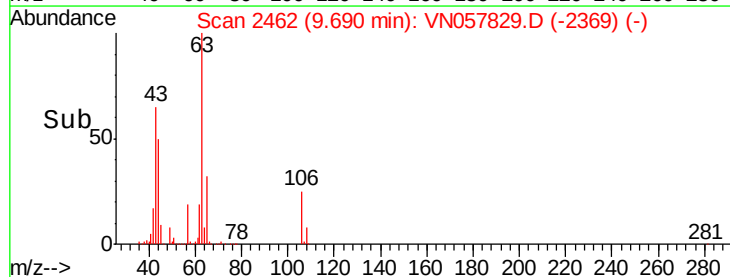
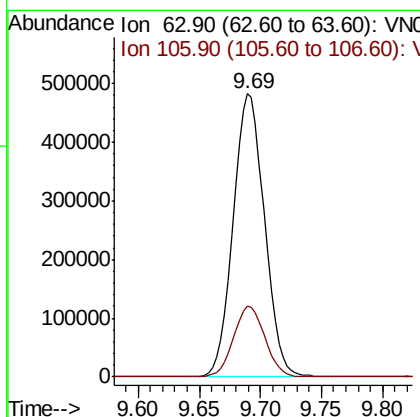
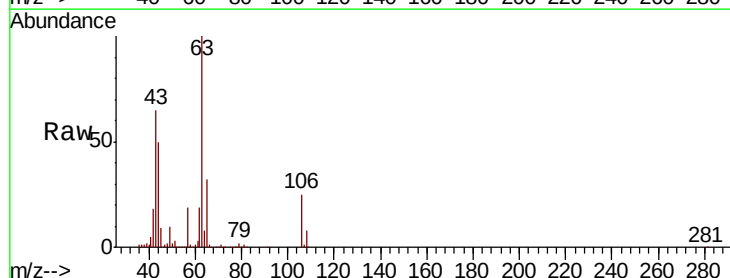
Manual Integrations
 APPROVED

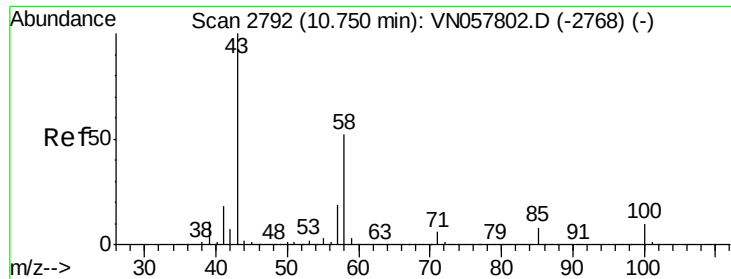
MMDadoda
 9/13/2019 5:16:22 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 249.857 ug/l
 RT: 9.69 min Scan# 2462
 Delta R.T. 0.00 min
 Lab File: VN057829.D
 Acq: 10 Sep 2019 2:28

Tgt Ion: 63 Resp: 859877
 Ion Ratio Lower Upper
 63 100
 106 25.0 20.0 30.0





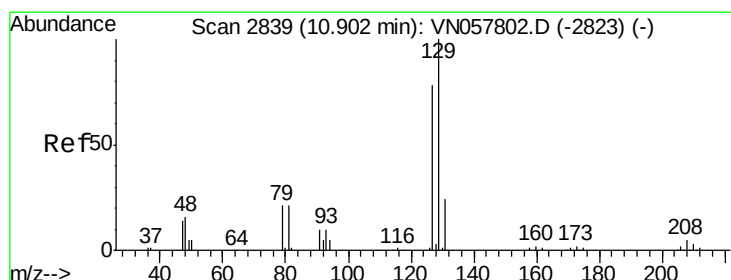
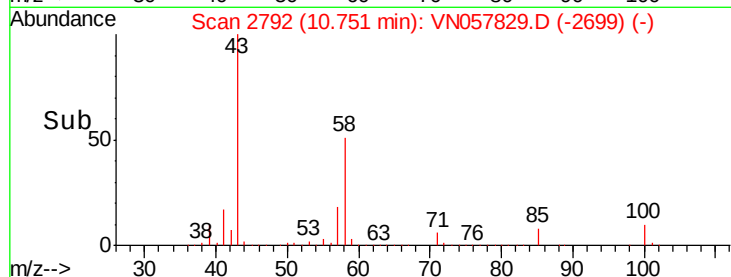
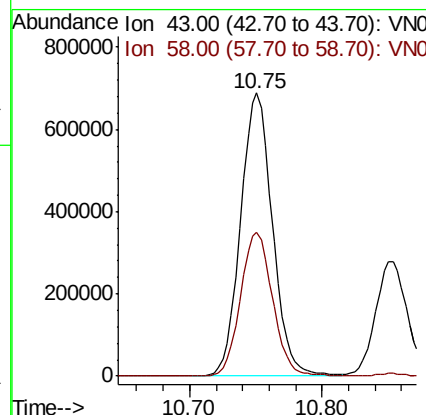
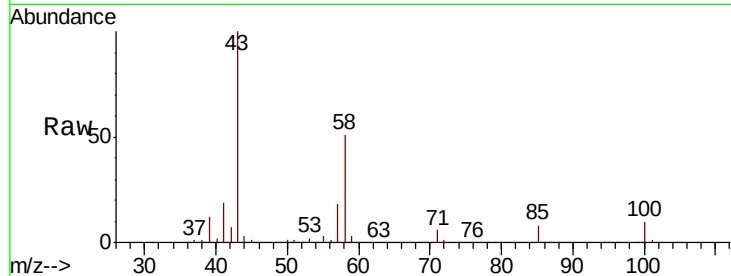
#59
2-Hexanone
Concen: 246.108 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN057829.D
Acq: 10 Sep 2019 2:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 1145763
Ion Ratio Lower Upper
43 100
58 51.4 25.6 76.8

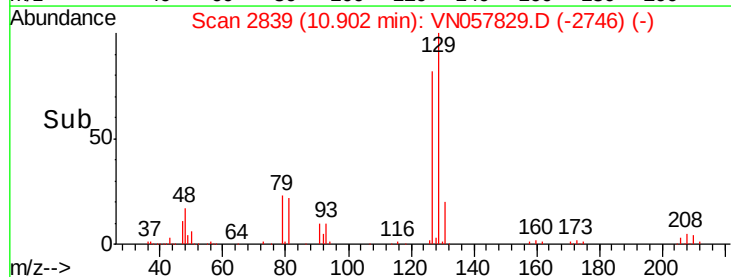
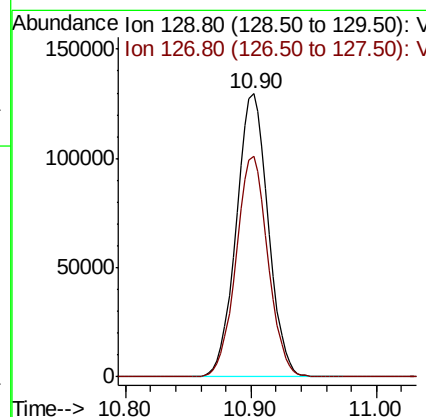
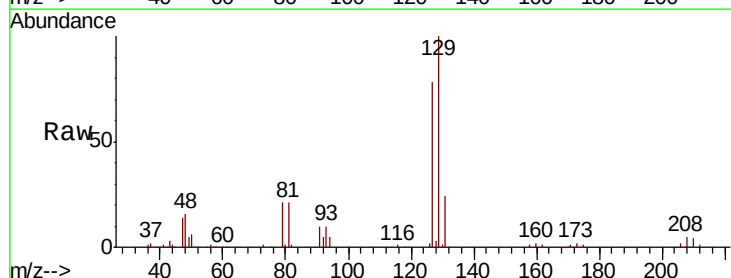
Manual Integrations
APPROVED

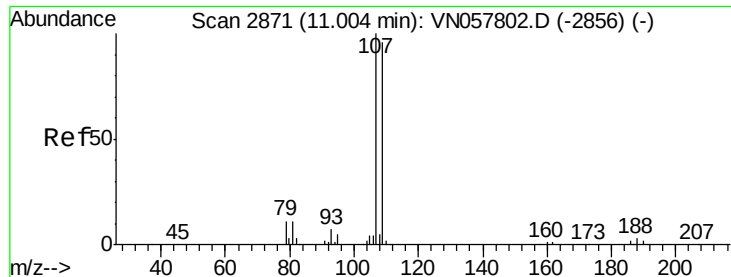
MMDadoda
9/13/2019 5:16:22 AM



#60
Dibromochloromethane
Concen: 50.781 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN057829.D
Acq: 10 Sep 2019 2:28

Tgt Ion: 129 Resp: 228805
Ion Ratio Lower Upper
129 100
127 77.9 38.6 116.0





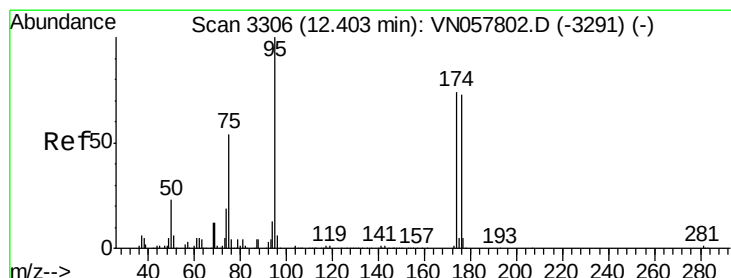
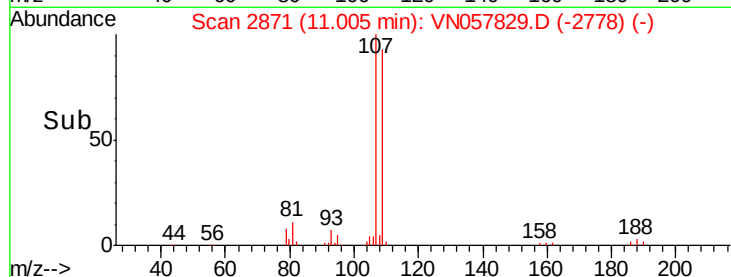
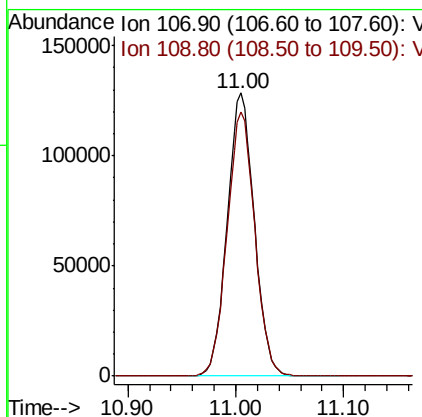
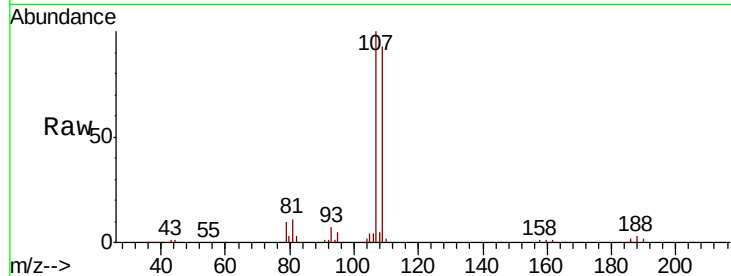
#61
 1,2-Dibromoethane
 Concen: 49.056 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. 0.00 min
 Lab File: VN057829.D
 Acq: 10 Sep 2019 2:28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
107	100	225034		
109	95.1	75.3	112.9	

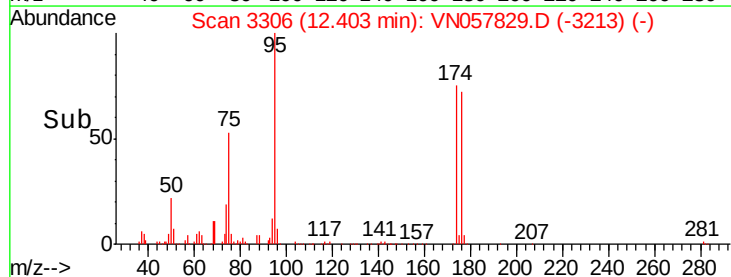
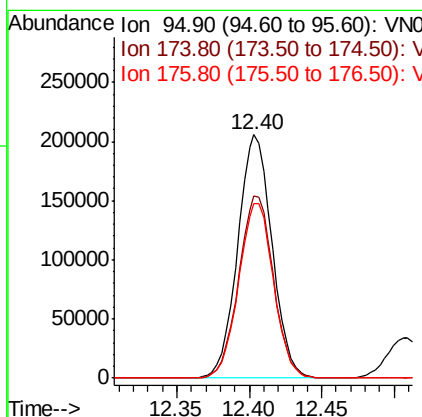
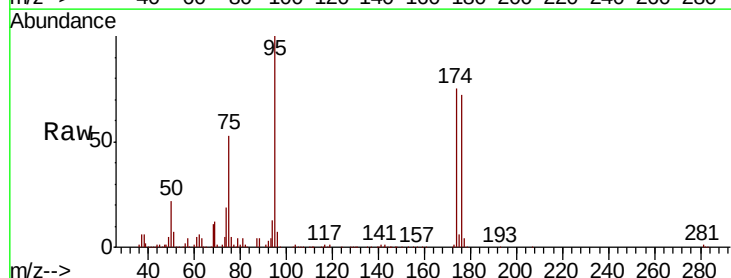
Manual Integrations
 APPROVED

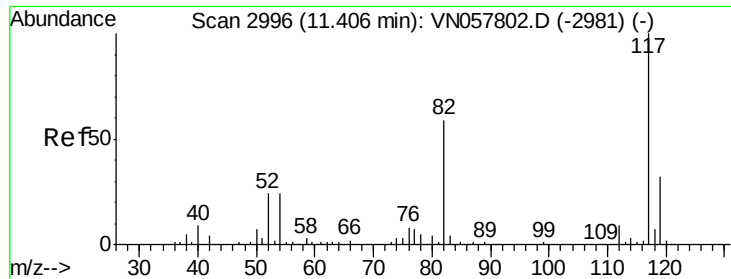
MMDadoda
 9/13/2019 5:16:22 AM



#62
 4-Bromofluorobenzene
 Concen: 47.385 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.00 min
 Lab File: VN057829.D
 Acq: 10 Sep 2019 2:28

Tgt Ion	Ratio	Resp	Lower	Upper
95	100	337058		
174	76.1	0.0	150.2	
176	73.1	0.0	146.0	





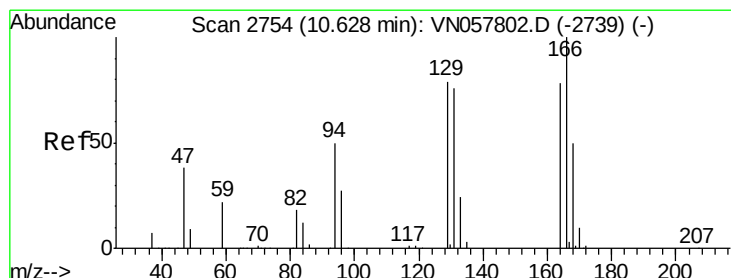
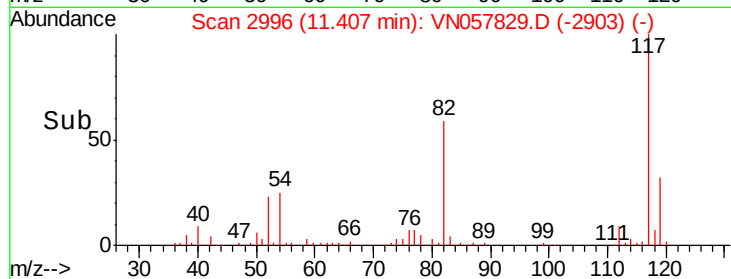
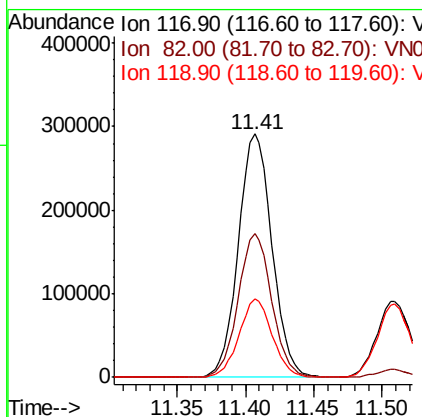
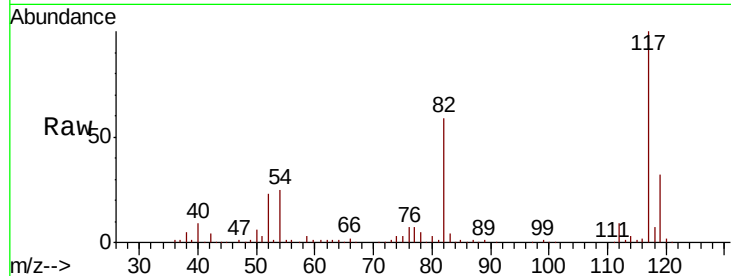
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN057829.D
Acq: 10 Sep 2019 2:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
117	100		
82	59.0	47.2	70.8
119	32.2	25.3	37.9

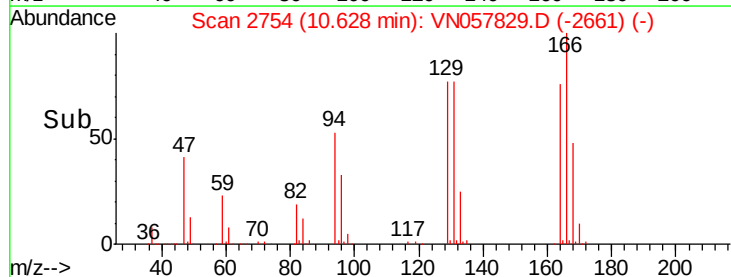
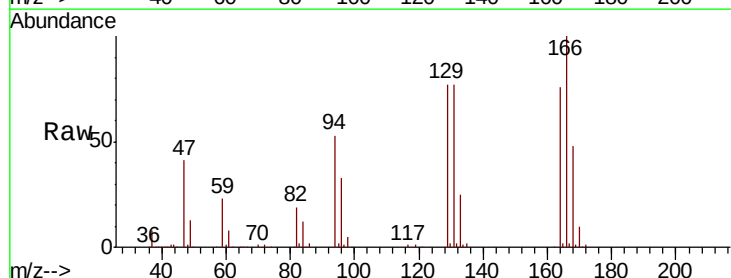
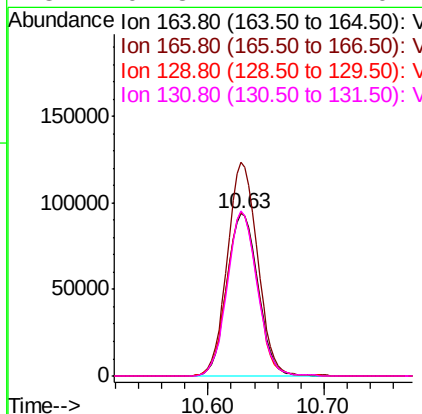
Manual Integrations
APPROVED

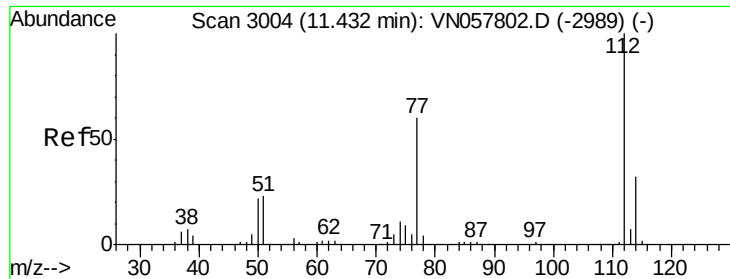
MMDadoda
9/13/2019 5:16:22 AM



#64
Tetrachloroethene
Concen: 47.233 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. 0.00 min
Lab File: VN057829.D
Acq: 10 Sep 2019 2:28

Tgt Ion	Ratio	Lower	Upper
164	100		
166	131.7	102.2	153.2
129	101.3	80.8	121.2
131	101.8	77.4	116.2





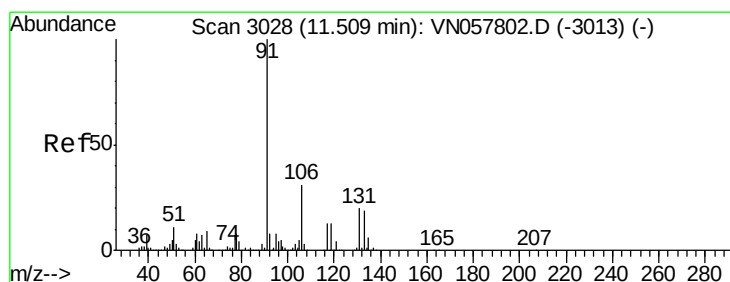
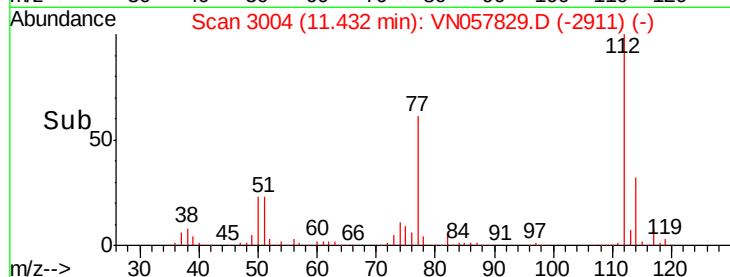
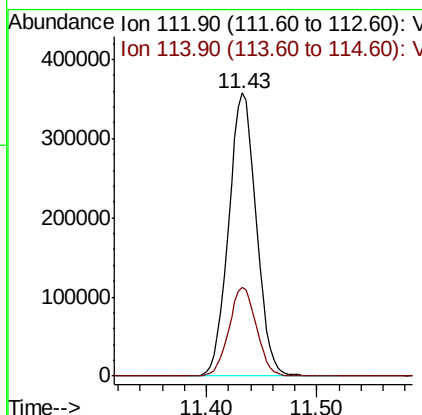
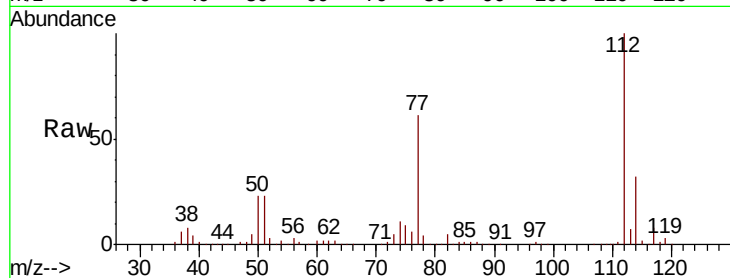
#65
Chlorobenzene
Concen: 47.586 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN057829.D
Acq: 10 Sep 2019 2:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:112 Resp: 621434
Ion Ratio Lower Upper
112 100
114 31.5 25.2 37.8

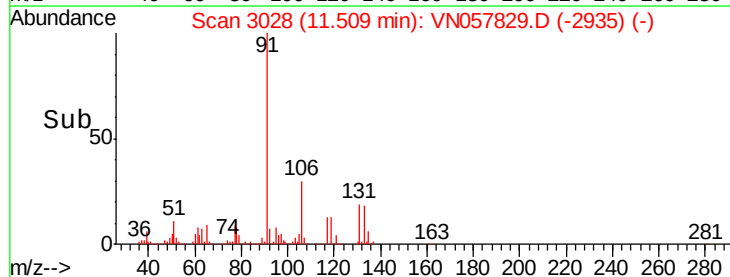
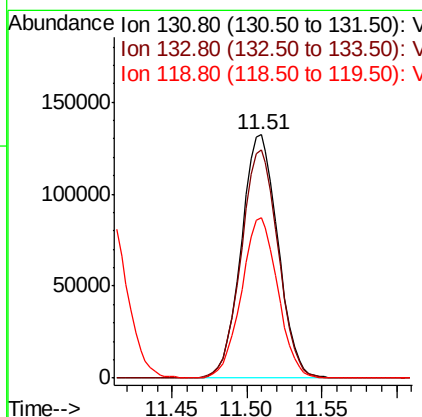
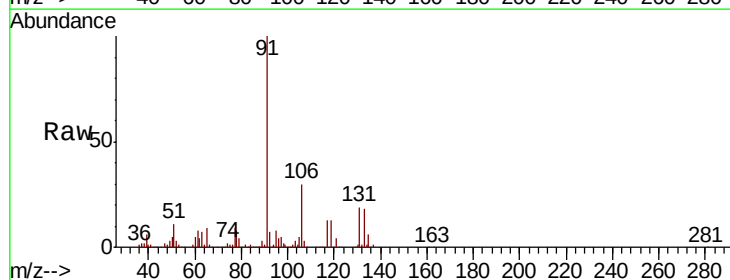
Manual Integrations
APPROVED

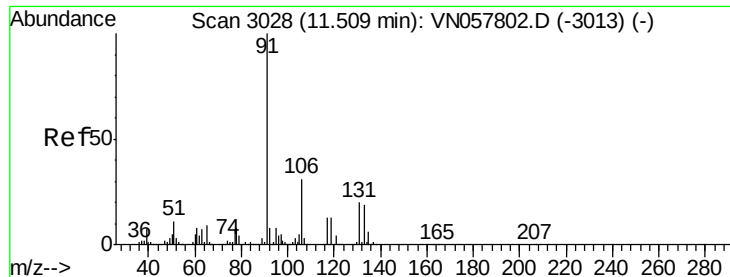
MMDadoda
9/13/2019 5:16:22 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 49.882 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN057829.D
Acq: 10 Sep 2019 2:28

Tgt Ion:131 Resp: 226035
Ion Ratio Lower Upper
131 100
133 94.6 47.1 141.3
119 65.1 33.3 99.8





#67

Ethyl Benzene

Concen: 49.728 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN057829.D

Acq: 10 Sep 2019 2:28

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion: 91 Resp: 1138093

Ion Ratio Lower Upper

91 100

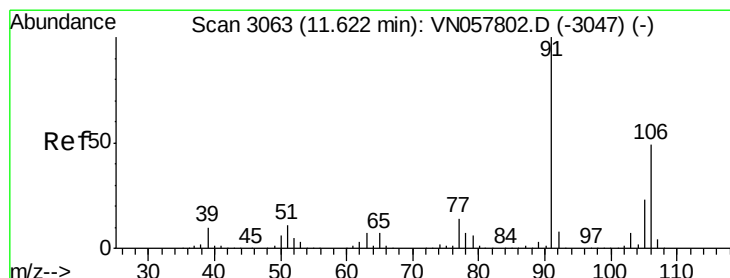
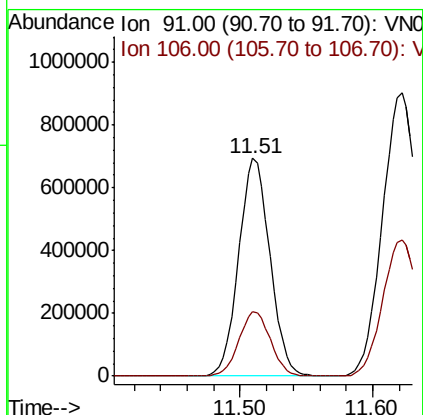
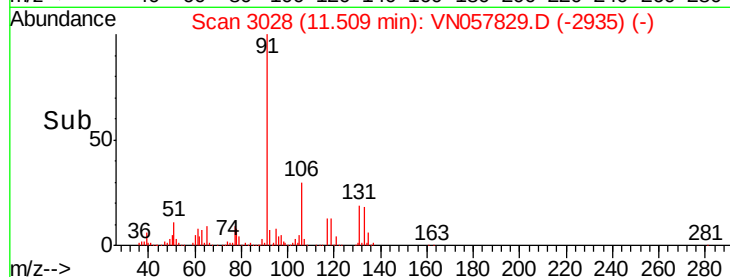
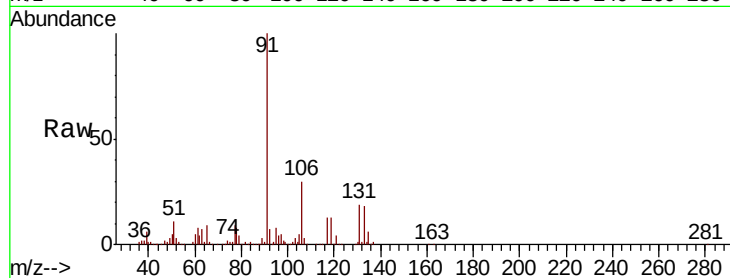
106 29.6 24.4 36.6

Manual Integrations

APPROVED

MMDadoda

9/13/2019 5:16:22 AM



#68

m/p-Xylenes

Concen: 98.522 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN057829.D

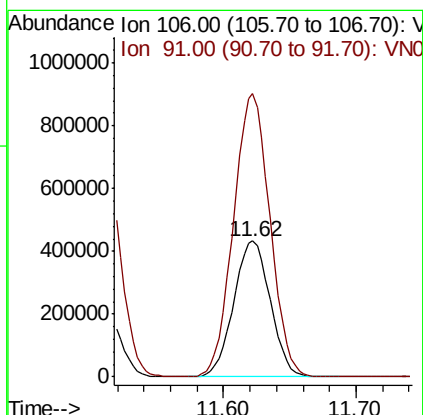
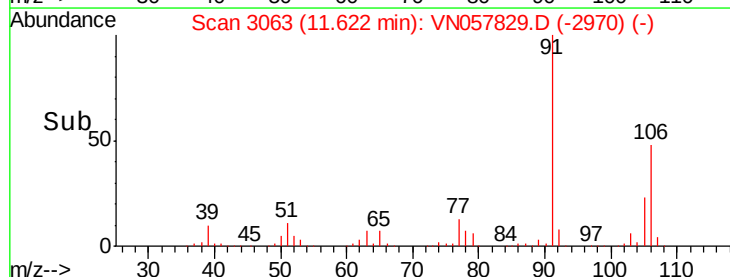
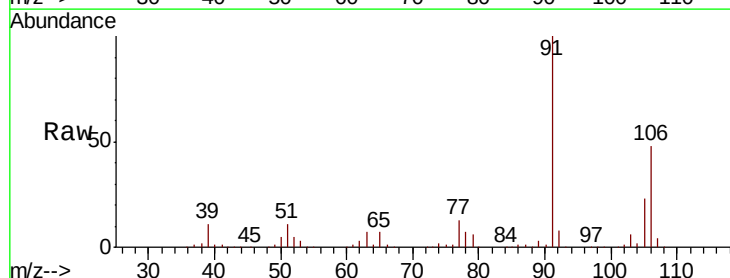
Acq: 10 Sep 2019 2:28

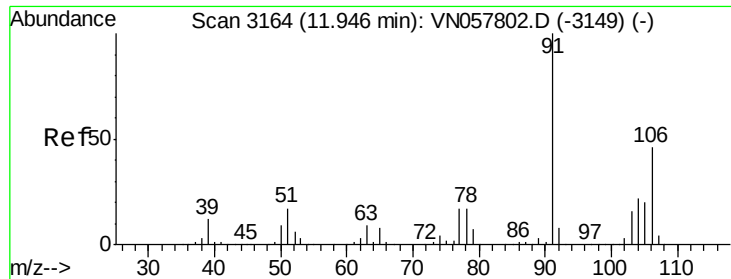
Tgt Ion: 106 Resp: 825946

Ion Ratio Lower Upper

106 100

91 208.1 165.8 248.6





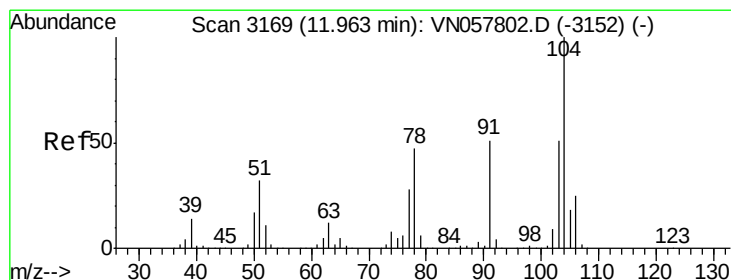
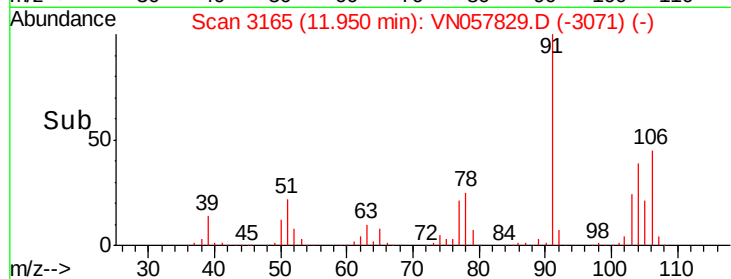
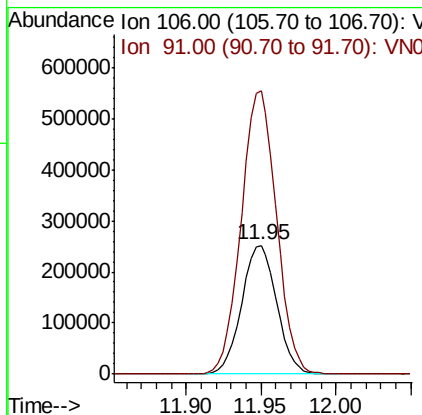
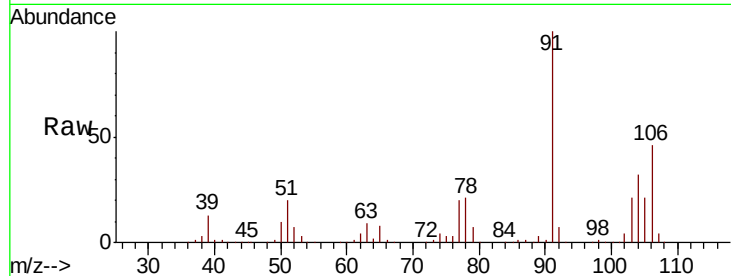
#69
o-Xylene
Concen: 49.433 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN057829.D
Acq: 10 Sep 2019 2:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:106 Resp: 411990
Ion Ratio Lower Upper
106 100
91 221.0 108.7 326.1

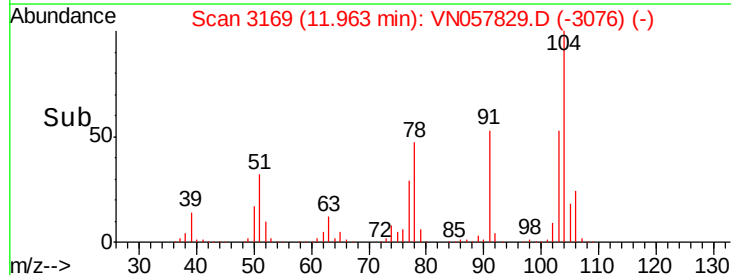
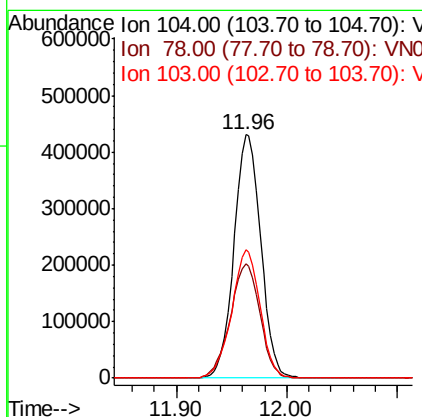
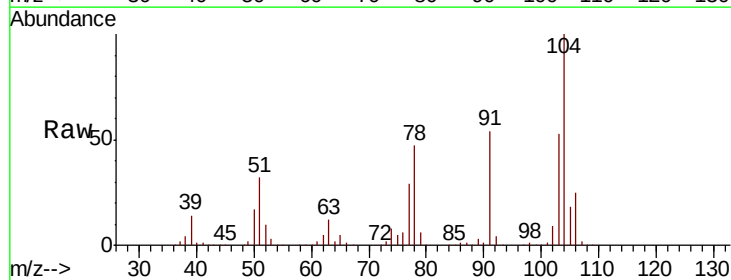
Manual Integrations
APPROVED

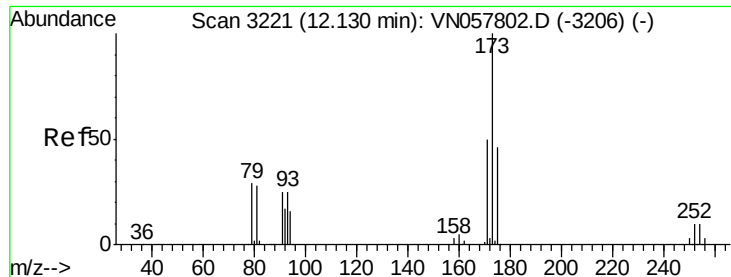
MMDadoda
9/13/2019 5:16:22 AM



#70
Styrene
Concen: 50.736 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN057829.D
Acq: 10 Sep 2019 2:28

Tgt Ion:104 Resp: 727717
Ion Ratio Lower Upper
104 100
78 51.8 41.3 61.9
103 55.5 43.7 65.5





#71

Bromoform

Concen: 50.431 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. -0.00 min

Lab File: VN057829.D

Acq: 10 Sep 2019 2:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:173 Resp: 142475

Ion Ratio Lower Upper

173 100

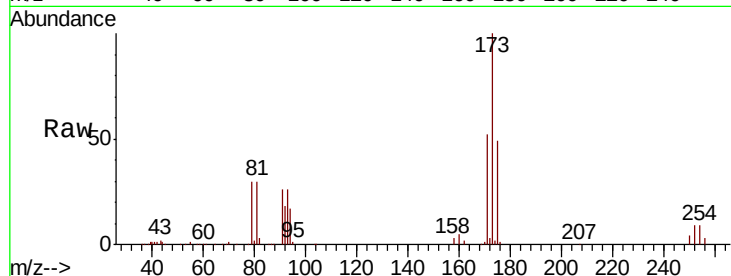
175 48.3 23.5 70.6

254 0.0 0.1 0.1#

Manual Integrations
APPROVED

MMDadoda

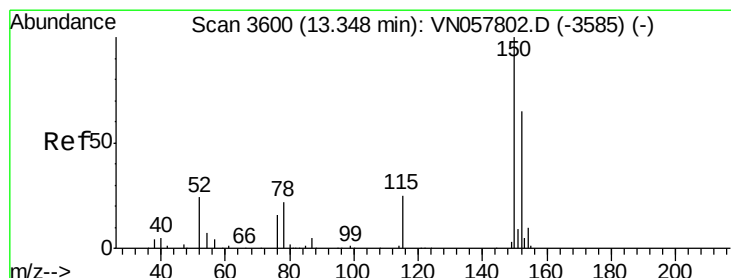
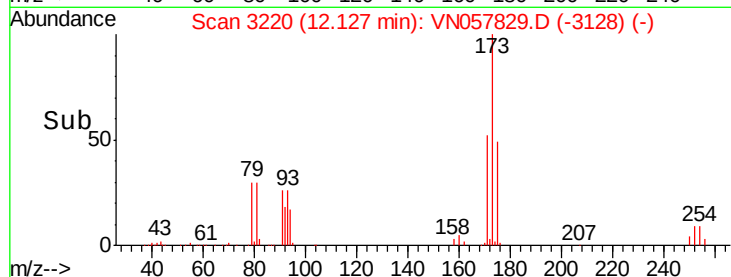
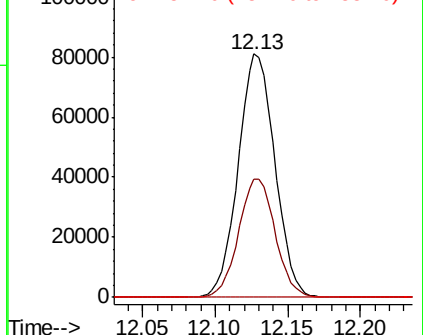
9/13/2019 5:16:22 AM



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# 3600

Delta R.T. 0.00 min

Lab File: VN057829.D

Acq: 10 Sep 2019 2:28

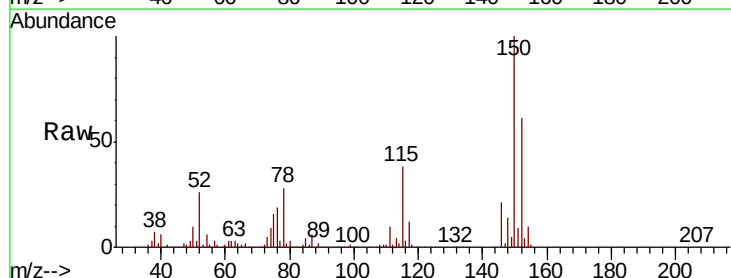
Tgt Ion:152 Resp: 297515

Ion Ratio Lower Upper

152 100

115 60.4 30.3 91.0

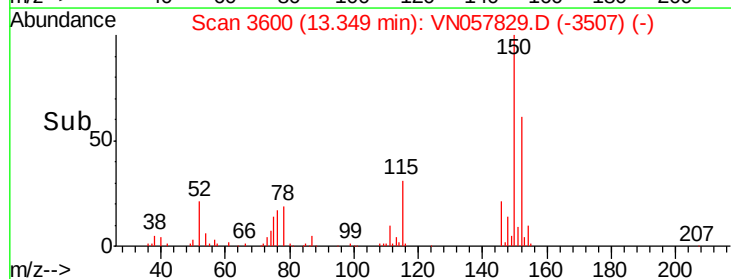
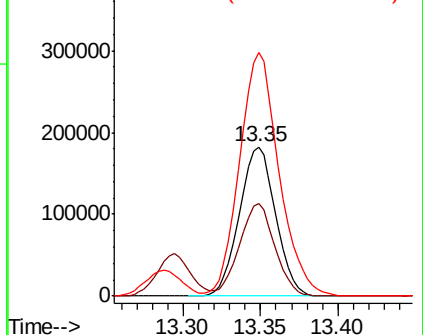
150 177.2 0.0 352.4

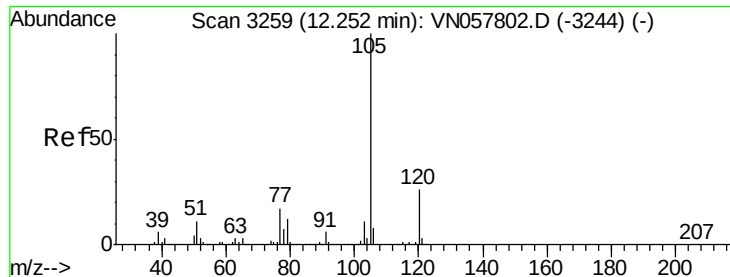


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





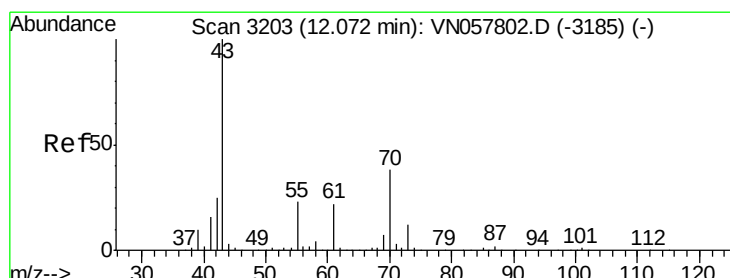
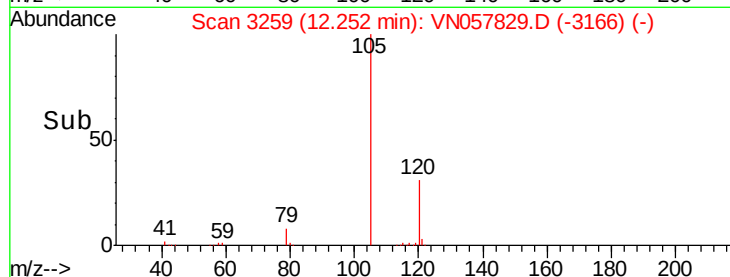
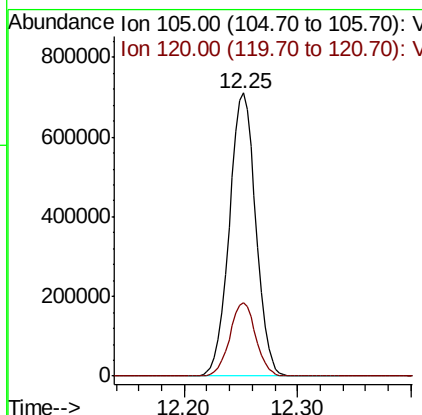
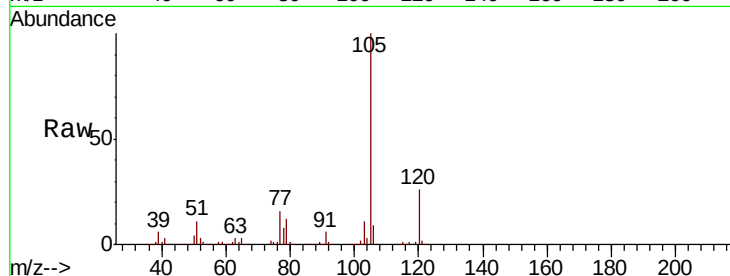
#73
Isopropylbenzene
Concen: 49.963 ug/l
RT: 12.25 min Scan# 3259
Delta R.T. 0.00 min
Lab File: VN057829.D
Acq: 10 Sep 2019 2:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:105 Resp: 1153449
Ion Ratio Lower Upper
105 100
120 25.6 12.8 38.4

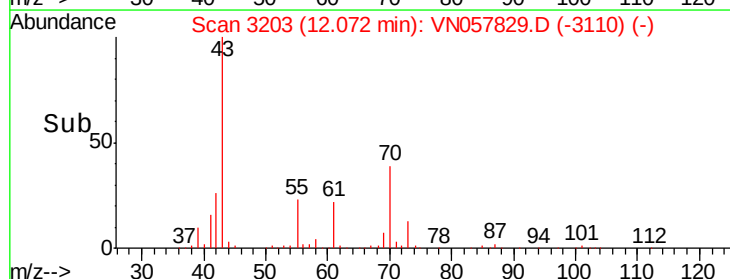
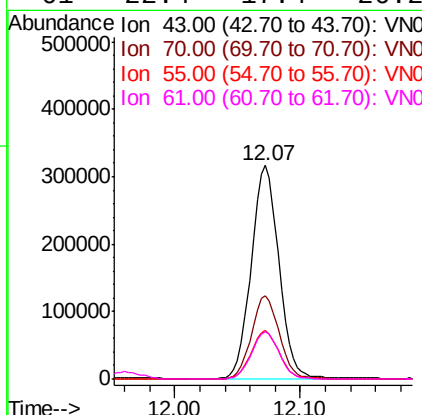
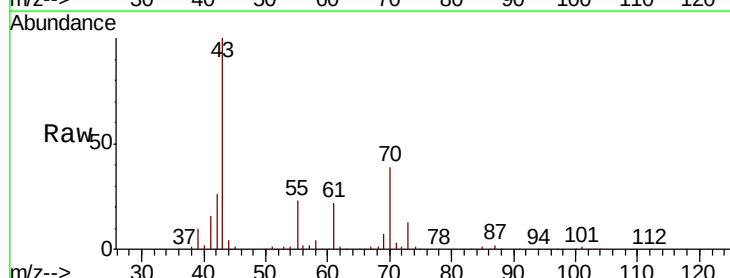
Manual Integrations
APPROVED

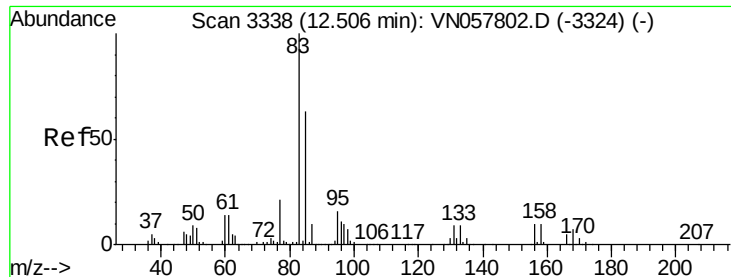
MMDadoda
9/13/2019 5:16:22 AM



#74
N-ethyl acetate
Concen: 48.500 ug/l
RT: 12.07 min Scan# 3203
Delta R.T. 0.00 min
Lab File: VN057829.D
Acq: 10 Sep 2019 2:28

Tgt Ion: 43 Resp: 487287
Ion Ratio Lower Upper
43 100
70 39.4 30.6 45.8
55 23.2 18.6 27.8
61 22.4 17.4 26.2





#75

1,1,2,2-Tetrachloroethane

Concen: 46.289 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN057829.D

Acq: 10 Sep 2019 2:28

Instrument :

MSVOA_N

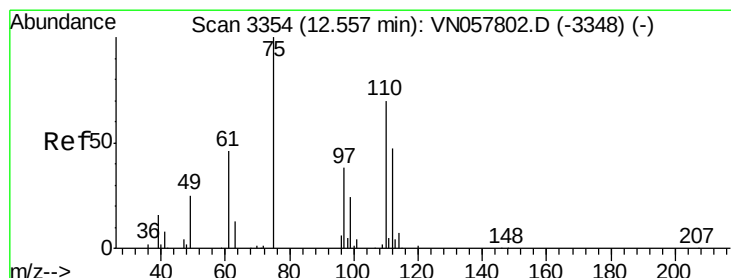
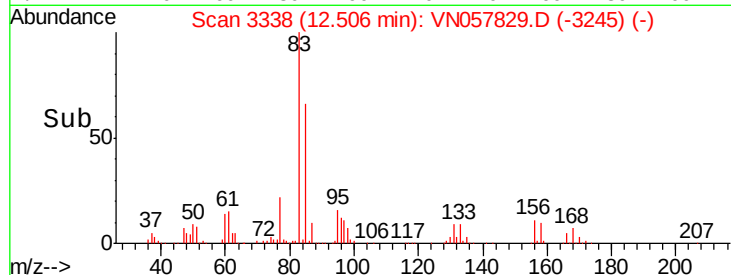
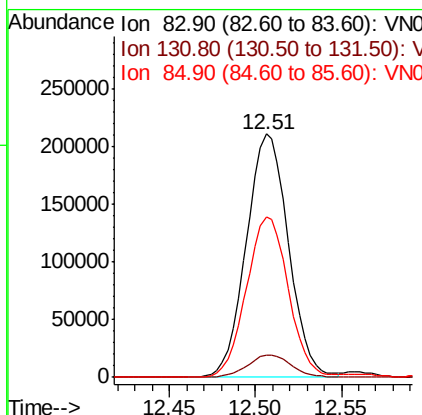
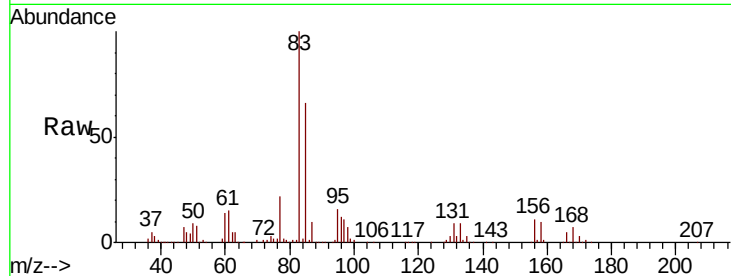
ClientSampled :

VSTDCCC050

Tot Ion:	83	Resp:	359811
Ion Ratio	Lower	Upper	
83	100		
131	9.6	4.8	14.3
85	65.4	31.6	94.7

Manual Integrations
APPROVED

MMDadoda
9/13/2019 5:16:22 AM



#76

1,2,3-Trichloropropane

Concen: 43.677 ug/l m

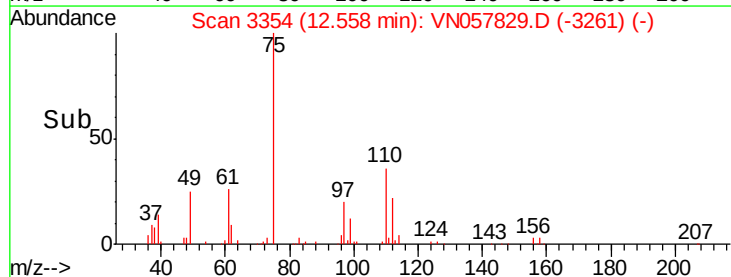
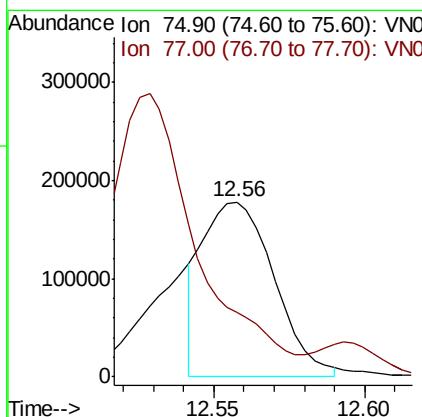
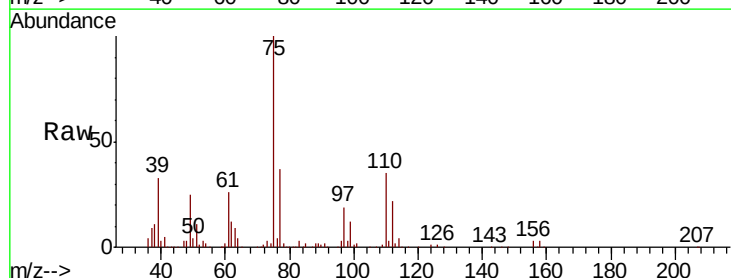
RT: 12.56 min Scan# 3354

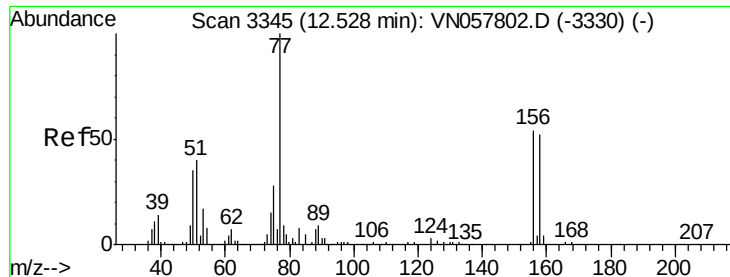
Delta R.T. 0.00 min

Lab File: VN057829.D

Acq: 10 Sep 2019 2:28

Tgt Ion:	75	Resp:	293959
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 46.173 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. 0.00 min

Lab File: VN057829.D

Acq: 10 Sep 2019 2:28

Instrument :

MSVOA_N

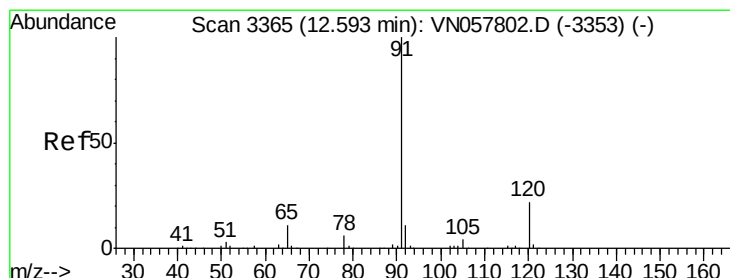
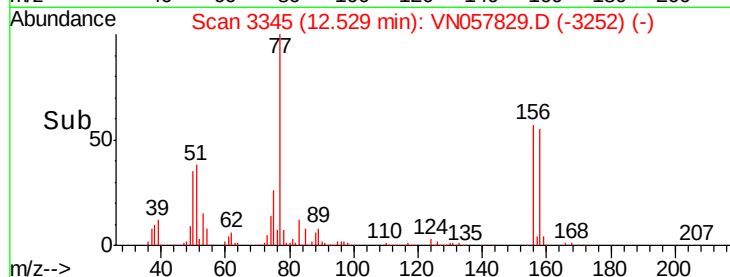
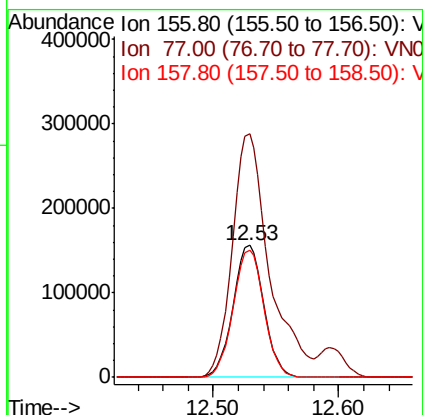
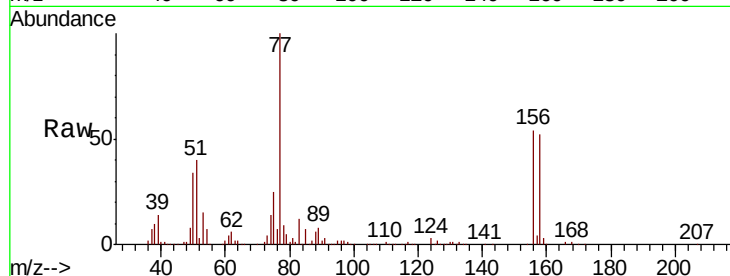
ClientSampled :

VSTDCCC050

Tot Ion:	156	Resp:	265769
Ion Ratio	Lower	Upper	
156	100		
77	223.3	113.7	341.1
158	96.6	48.5	145.6

Manual Integrations
APPROVED

MMDadoda
9/13/2019 5:16:22 AM



#78

n-propylbenzene

Concen: 50.990 ug/l

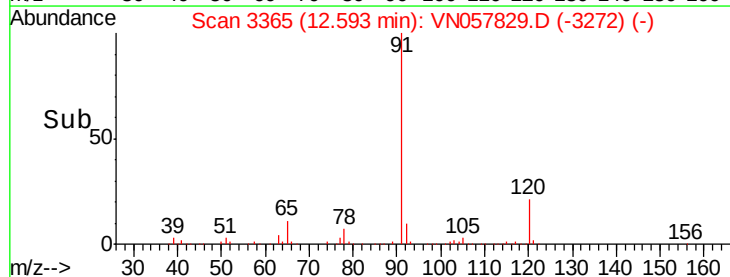
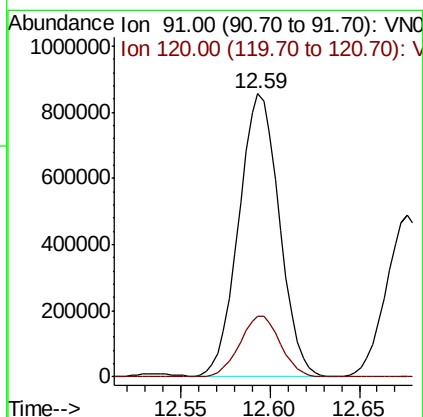
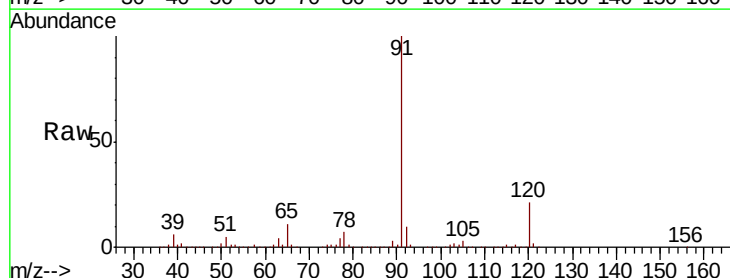
RT: 12.59 min Scan# 3365

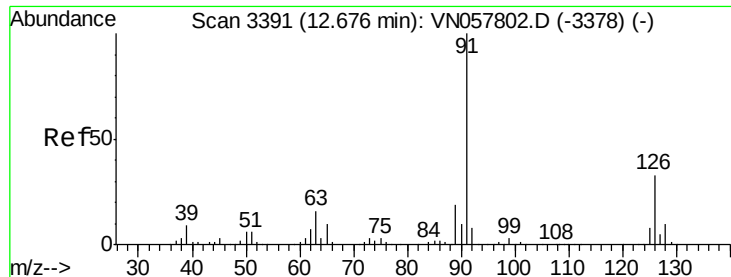
Delta R.T. 0.00 min

Lab File: VN057829.D

Acq: 10 Sep 2019 2:28

Tgt Ion:	91	Resp:	1351751
Ion Ratio	Lower	Upper	
91	100		
120	21.6	11.1	33.1





#79

2-Chlorotoluene

Concen: 47.646 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN057829.D

Acq: 10 Sep 2019 2:28

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion: 91 Resp: 798325

Ion Ratio Lower Upper

91 100

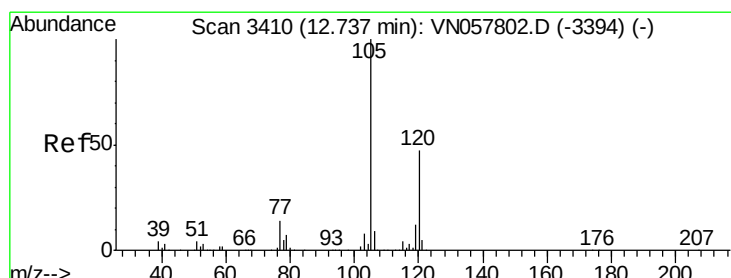
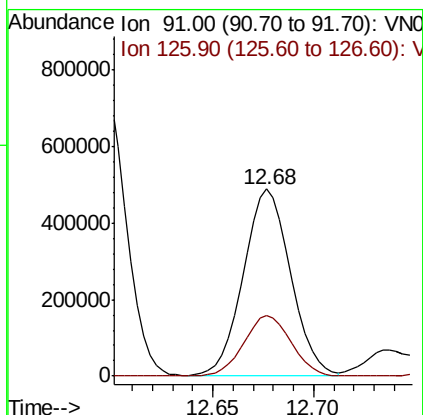
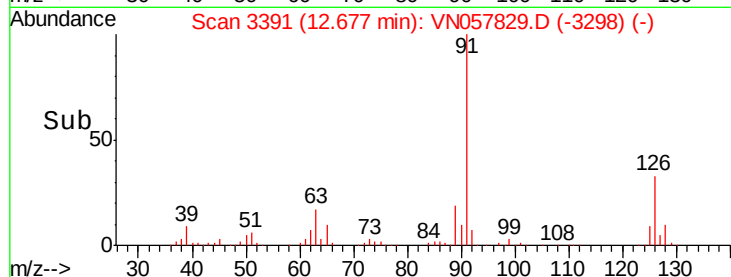
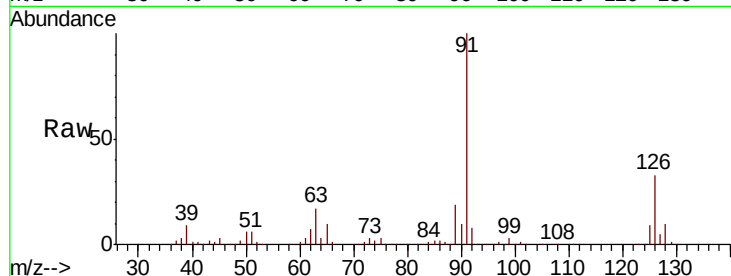
126 32.8 16.4 49.2

Manual Integrations

APPROVED

MMDadoda

9/13/2019 5:16:22 AM



#80

1,3,5-Trimethylbenzene

Concen: 50.439 ug/l

RT: 12.74 min Scan# 3410

Delta R.T. 0.00 min

Lab File: VN057829.D

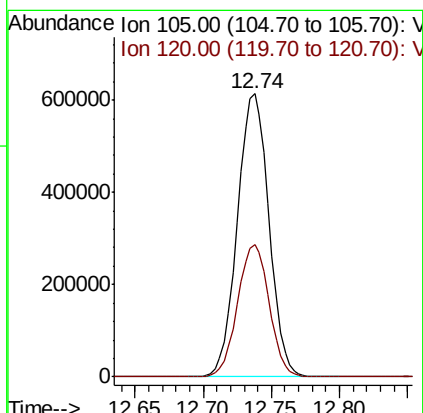
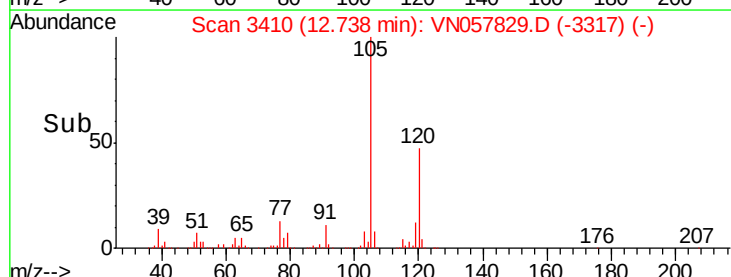
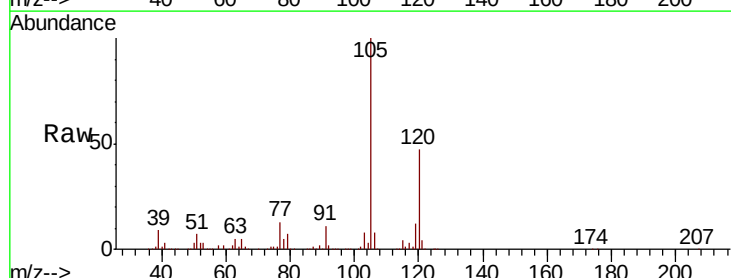
Acq: 10 Sep 2019 2:28

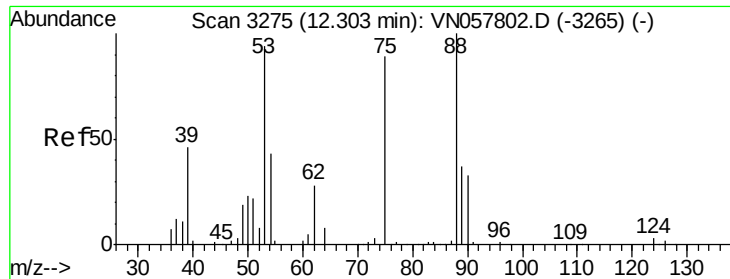
Tgt Ion: 105 Resp: 983877

Ion Ratio Lower Upper

105 100

120 46.8 23.7 71.1





#81

trans-1,4-Dichloro-2-butene

Concen: 43.803 ug/l

RT: 12.30 min Scan# 3275

Delta R.T. 0.00 min

Lab File: VN057829.D

Acq: 10 Sep 2019 2:28

Instrument :

MSVOA_N

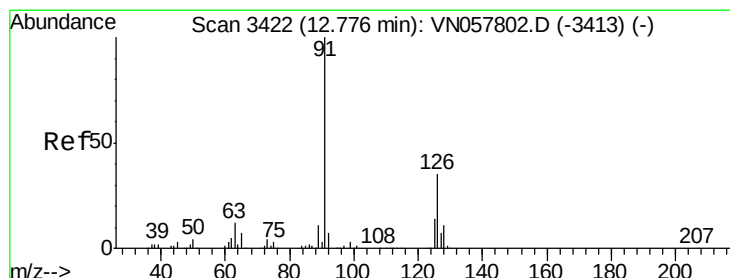
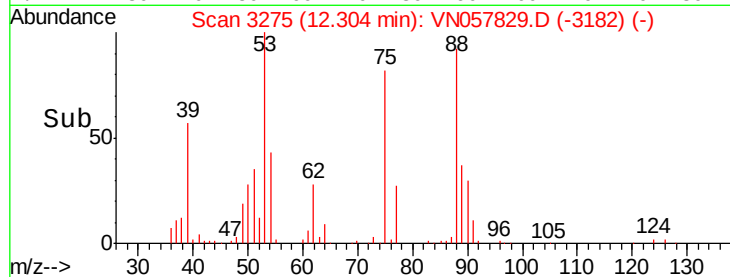
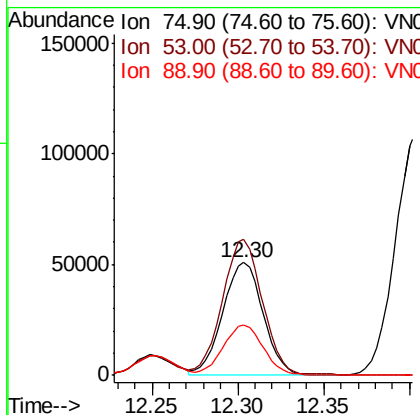
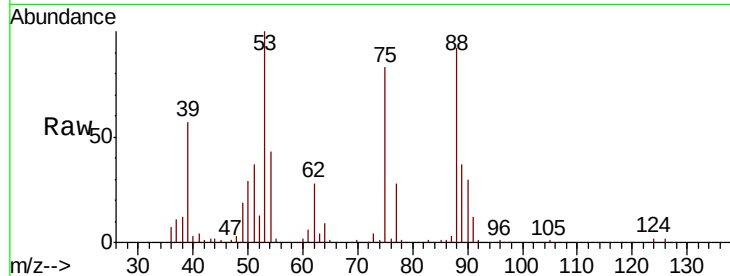
ClientSampleId :

VSTDCCC050

Tot Ion:	75	Resp:	83775
Ion	Ratio	Lower	Upper
75	100		
53	117.0	88.4	132.6
89	44.0	35.3	52.9

Manual Integrations
APPROVED

MMDadoda
9/13/2019 5:16:22 AM



#82

4-Chlorotoluene

Concen: 48.792 ug/l

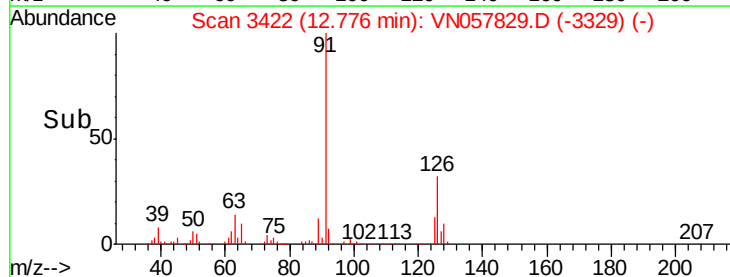
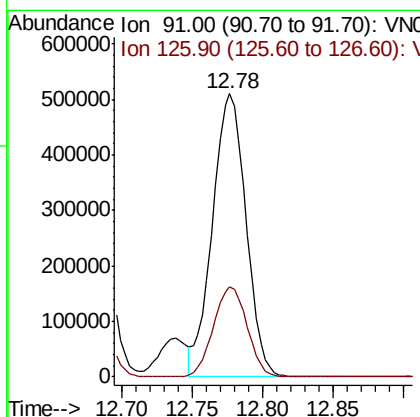
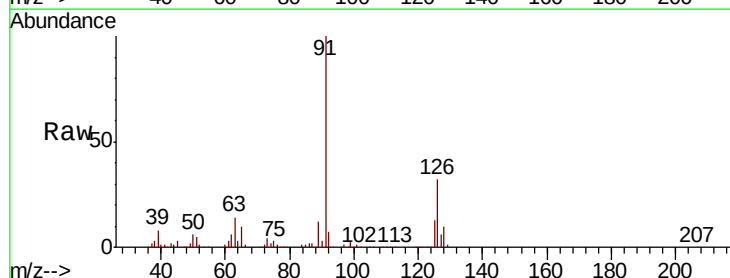
RT: 12.78 min Scan# 3422

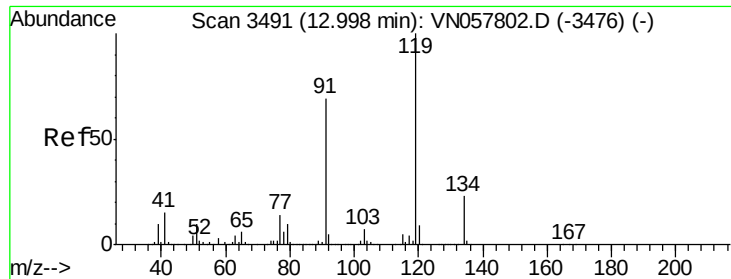
Delta R.T. 0.00 min

Lab File: VN057829.D

Acq: 10 Sep 2019 2:28

Tgt Ion:	91	Resp:	839527
Ion	Ratio	Lower	Upper
91	100		
126	32.0	16.0	48.0





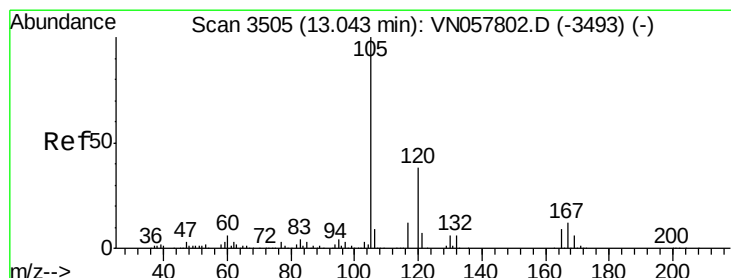
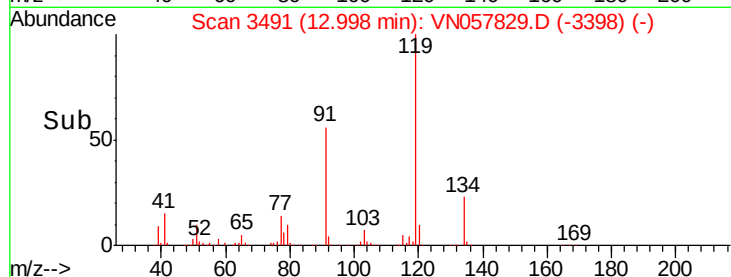
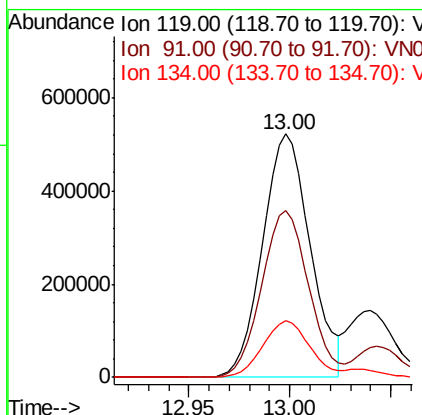
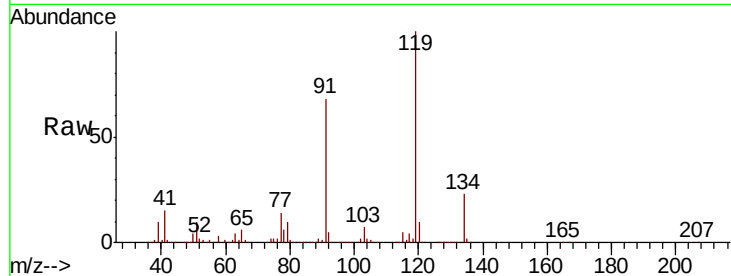
#83
 tert-Butylbenzene
 Concen: 49.508 ug/l
 RT: 13.00 min Scan# 3491
 Delta R.T. 0.00 min
 Lab File: VN057829.D
 Acq: 10 Sep 2019 2:28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
119	100	858449		
91	67.7	33.6	100.8	
134	23.2	11.7	35.0	

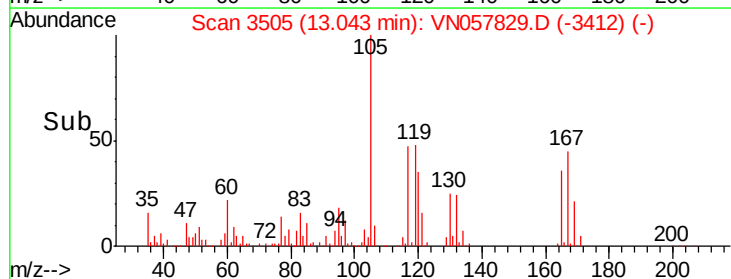
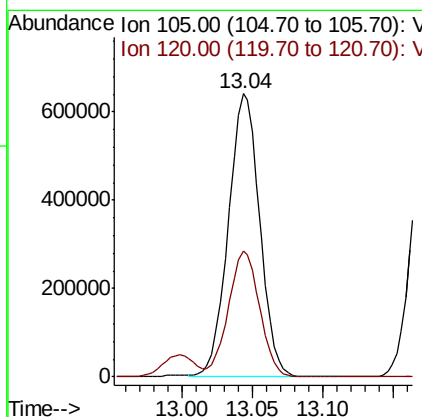
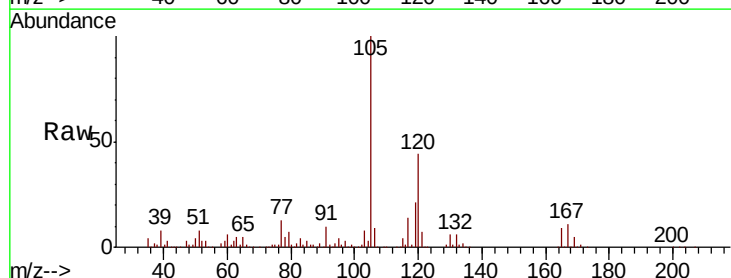
Manual Integrations
 APPROVED

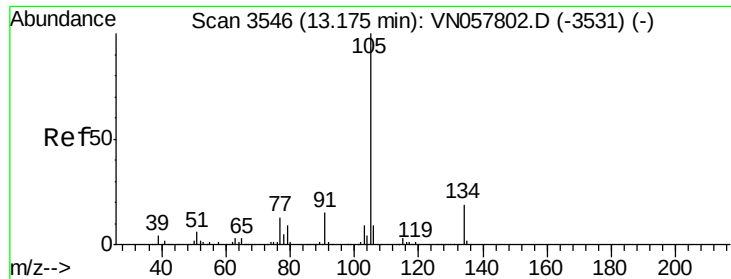
MMDadoda
 9/13/2019 5:16:22 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 50.189 ug/l
 RT: 13.04 min Scan# 3505
 Delta R.T. 0.00 min
 Lab File: VN057829.D
 Acq: 10 Sep 2019 2:28

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	995009		
120	44.7	22.4	67.2	





#85

sec-Butylbenzene

Concen: 50.701 ug/l

RT: 13.18 min Scan# 3547

Delta R.T. 0.00 min

Lab File: VN057829.D

Acq: 10 Sep 2019 2:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 1165225

Ion Ratio Lower Upper

105 100

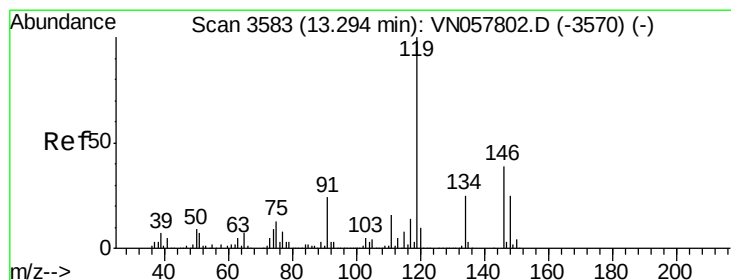
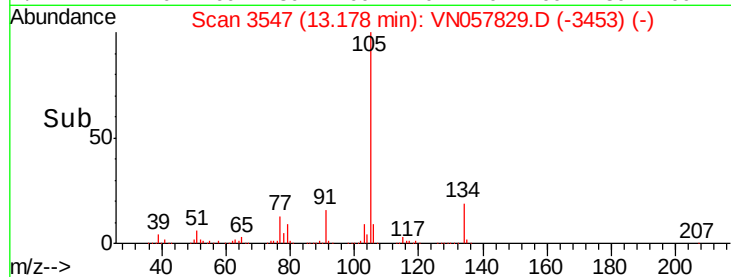
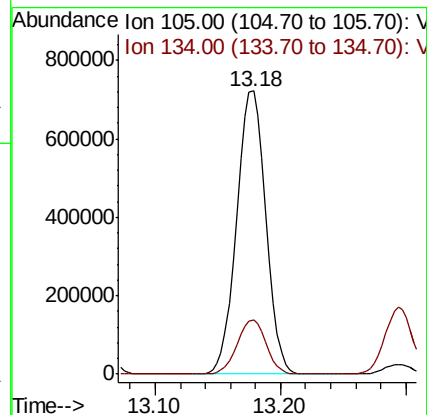
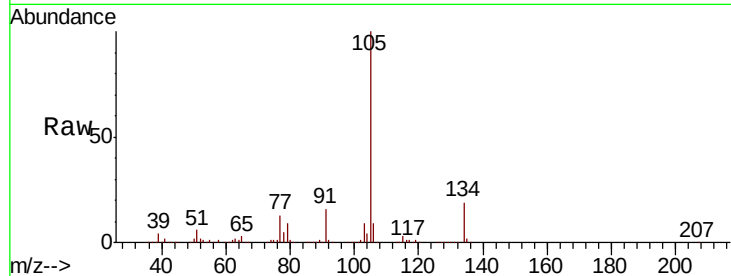
134 19.0 9.6 28.6

Manual Integrations

APPROVED

MMDadoda

9/13/2019 5:16:22 AM



#86

p-Isopropyltoluene

Concen: 51.607 ug/l

RT: 13.29 min Scan# 3583

Delta R.T. 0.00 min

Lab File: VN057829.D

Acq: 10 Sep 2019 2:28

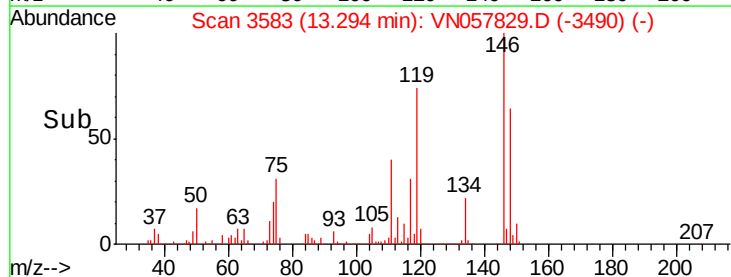
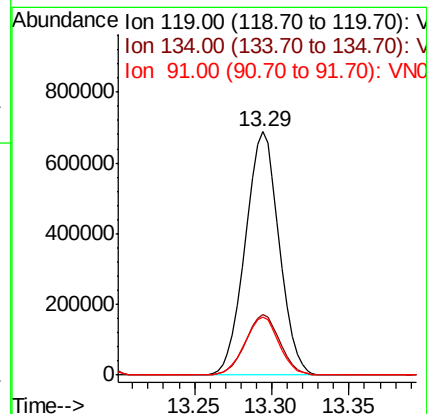
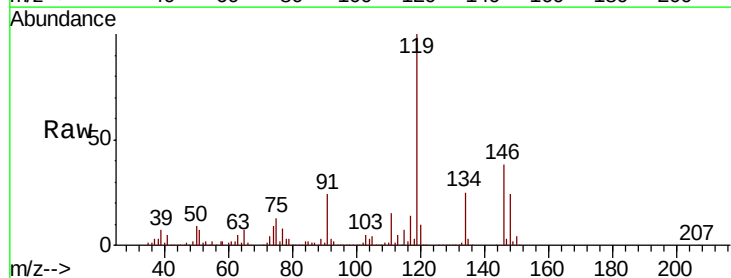
Tgt Ion:119 Resp: 1045028

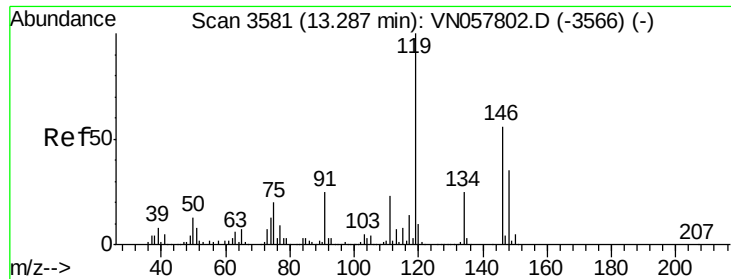
Ion Ratio Lower Upper

119 100

134 25.3 12.5 37.5

91 24.1 12.3 36.8





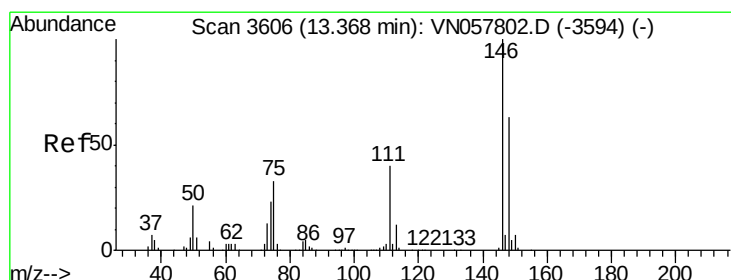
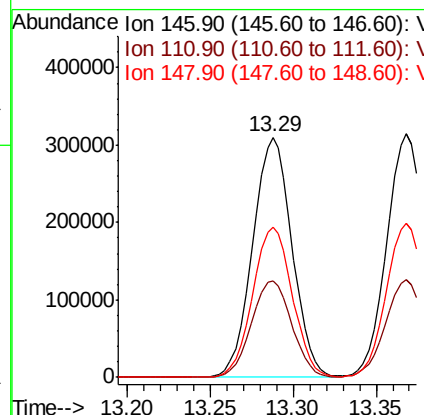
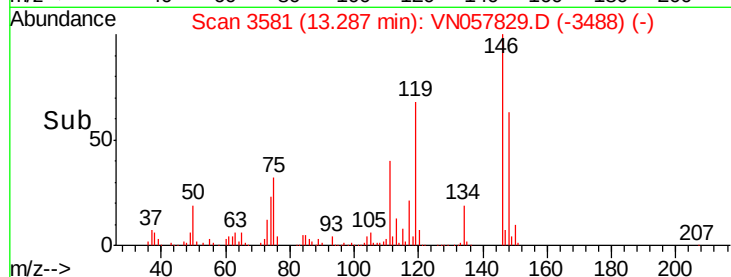
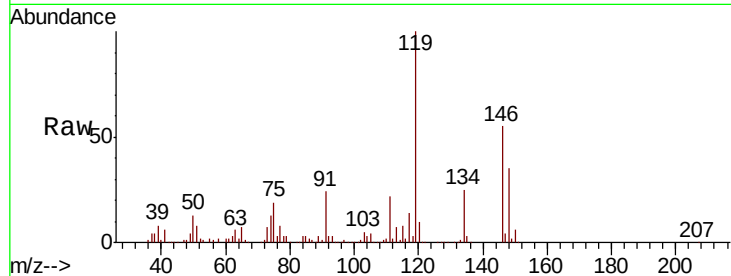
#87
 1,3-Dichlorobenzene
 Concen: 48.305 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN057829.D
 Acq: 10 Sep 2019 2:28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
146	100	510341		
111	41.2	20.5	61.6	
148	63.2	31.5	94.5	

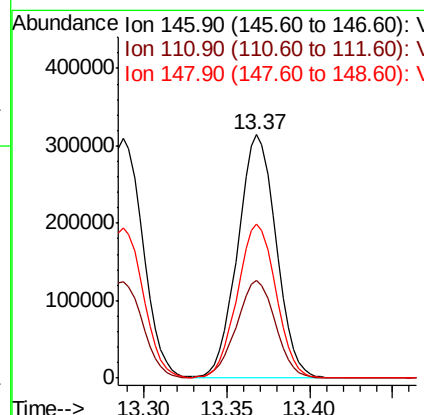
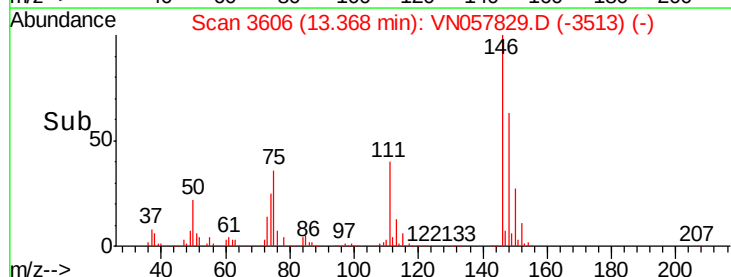
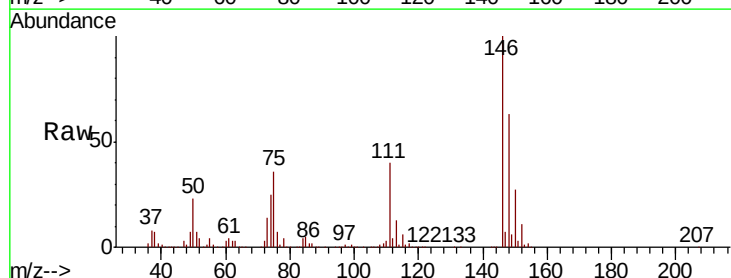
Manual Integrations
 APPROVED

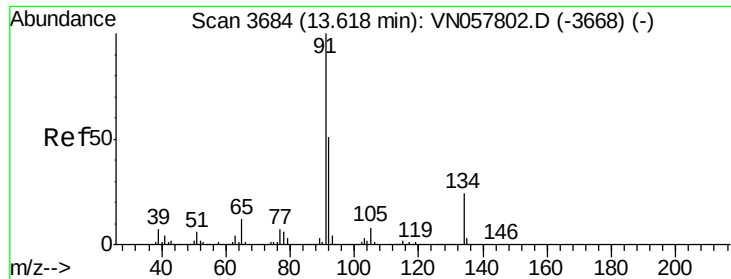
MMDadoda
 9/13/2019 5:16:22 AM



#88
 1,4-Dichlorobenzene
 Concen: 47.255 ug/l
 RT: 13.37 min Scan# 3606
 Delta R.T. 0.00 min
 Lab File: VN057829.D
 Acq: 10 Sep 2019 2:28

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	506761		
111	40.5	20.4	61.2	
148	63.6	31.8	95.4	





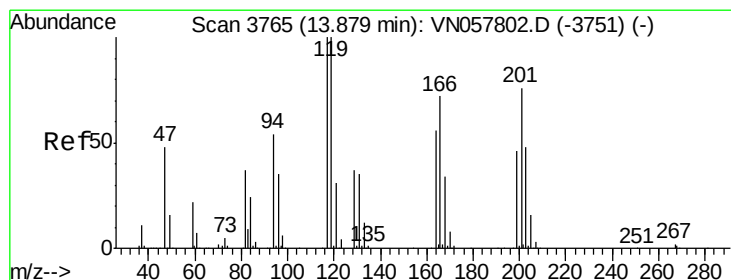
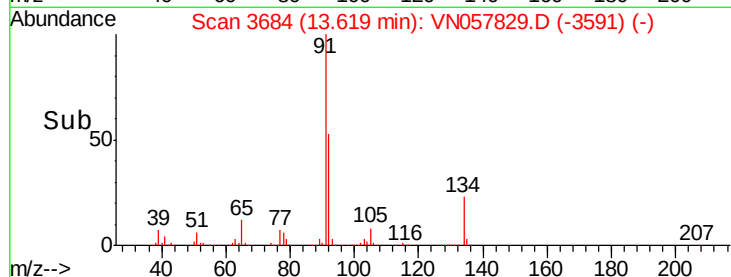
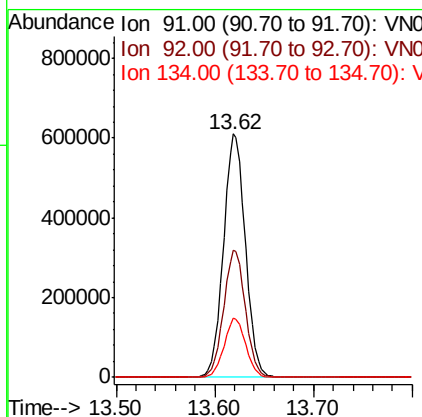
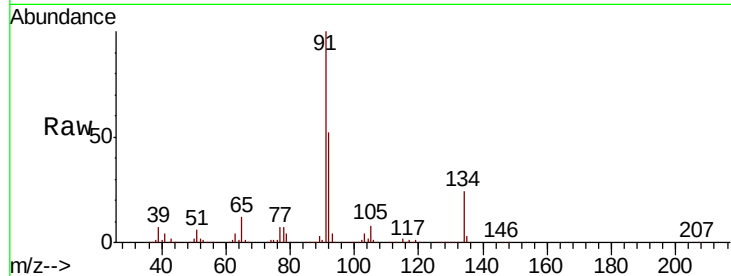
#89
n-Butylbenzene
Concen: 49.799 ug/l
RT: 13.62 min Scan# 3684
Delta R.T. 0.00 min
Lab File: VN057829.D
Acq: 10 Sep 2019 2:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.9	25.7	77.0
134	23.9	11.9	35.7

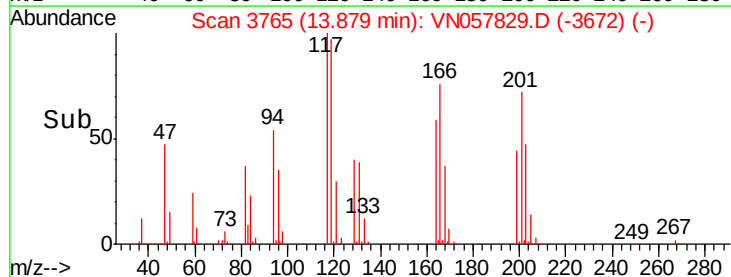
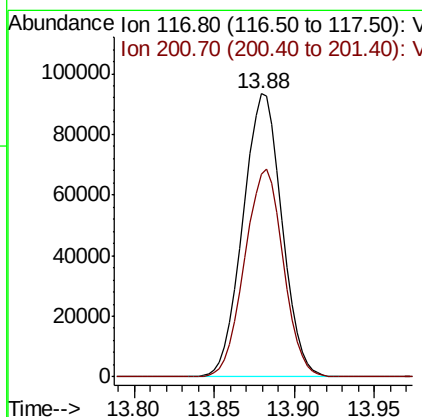
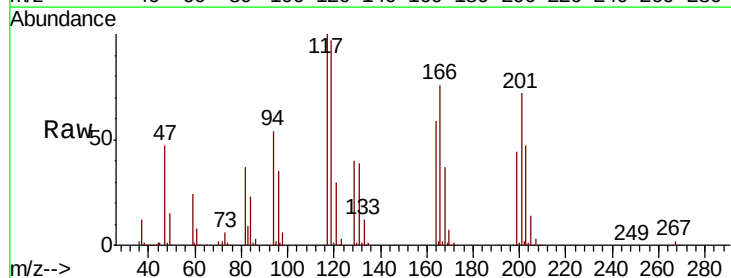
Manual Integrations
APPROVED

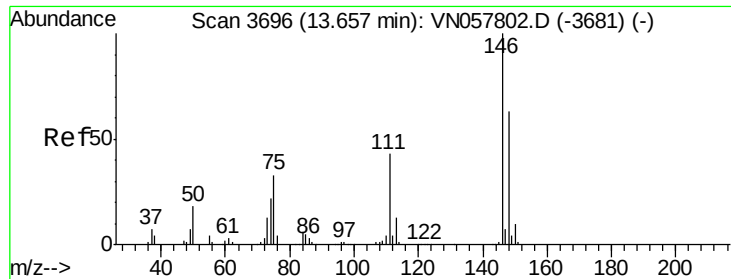
MMDadoda
9/13/2019 5:16:22 AM



#90
Hexachloroethane
Concen: 51.661 ug/l
RT: 13.88 min Scan# 3765
Delta R.T. 0.00 min
Lab File: VN057829.D
Acq: 10 Sep 2019 2:28

Tgt Ion	Ratio	Lower	Upper
117	100		
201	72.7	37.5	112.7





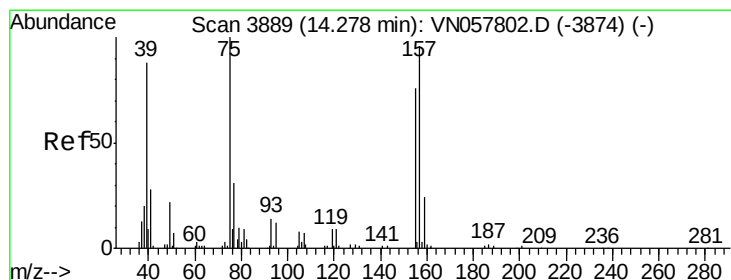
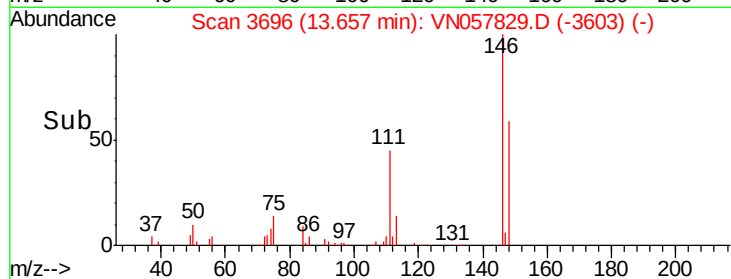
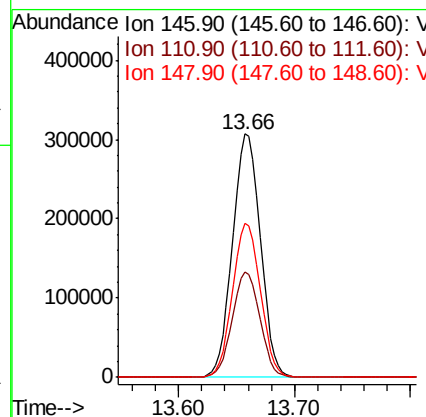
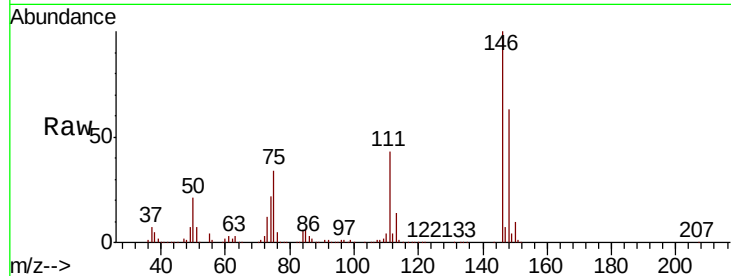
#91
 1,2-Dichlorobenzene
 Concen: 48.354 ug/l
 RT: 13.66 min Scan# 3696
 Delta R.T. 0.00 min
 Lab File: VN057829.D
 Acq: 10 Sep 2019 2:28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.7	21.3	63.9
148	63.0	31.4	94.3

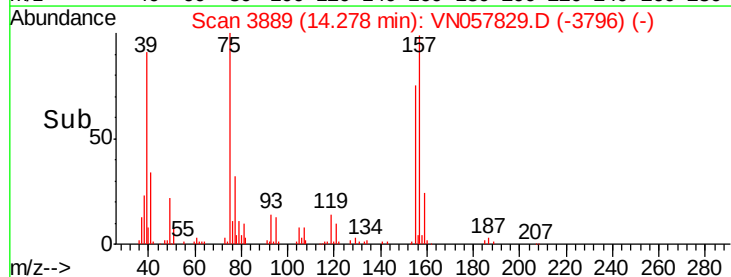
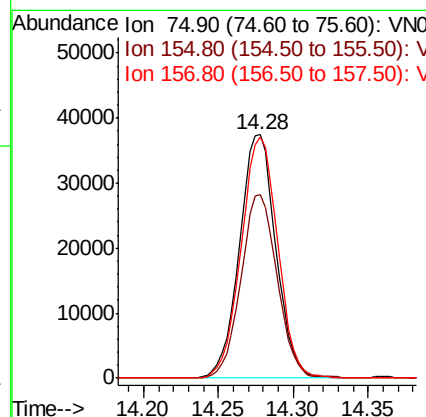
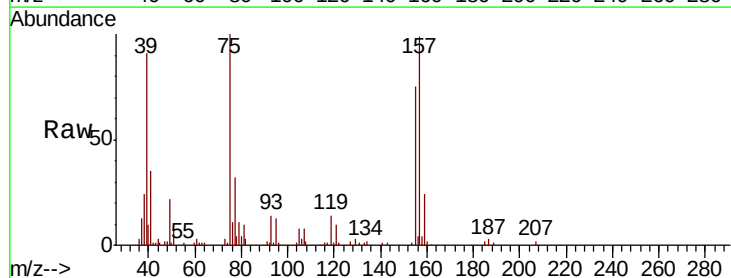
Manual Integrations
 APPROVED

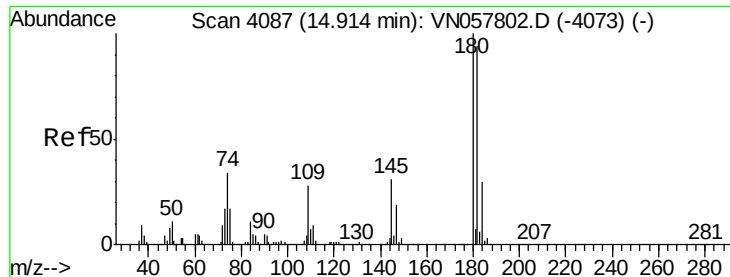
MMDadoda
 9/13/2019 5:16:22 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 49.353 ug/l
 RT: 14.28 min Scan# 3889
 Delta R.T. 0.00 min
 Lab File: VN057829.D
 Acq: 10 Sep 2019 2:28

Tgt Ion	Ratio	Lower	Upper
75	100		
155	75.0	37.3	111.8
157	99.6	47.9	143.8





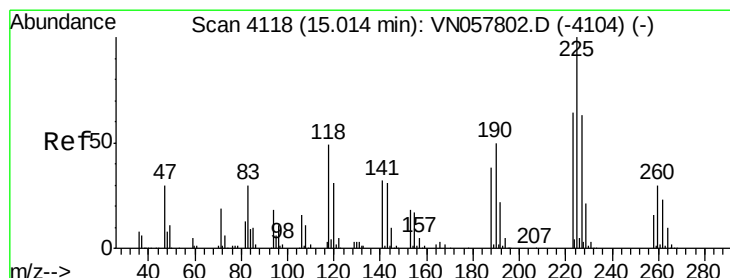
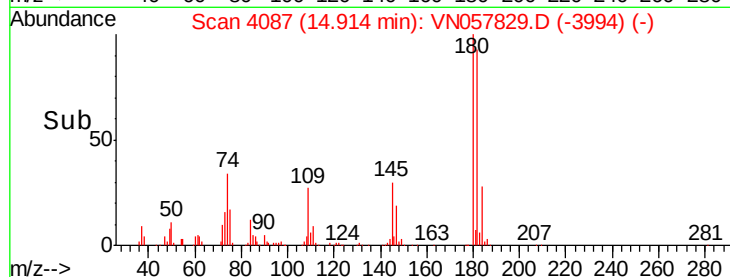
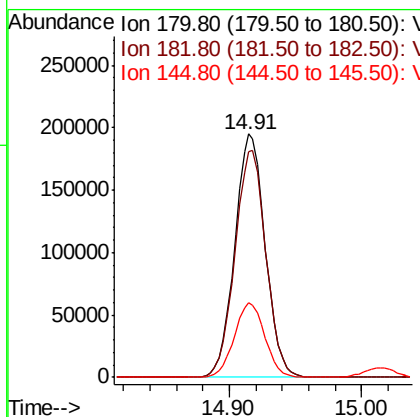
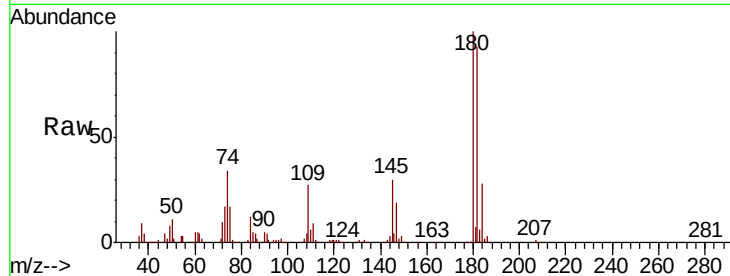
#93
 1,2,4-Trichlorobenzene
 Concen: 44.876 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.00 min
 Lab File: VN057829.D
 Acq: 10 Sep 2019 2:28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	309594		
182	95.3	46.9	140.8	
145	30.7	14.9	44.7	

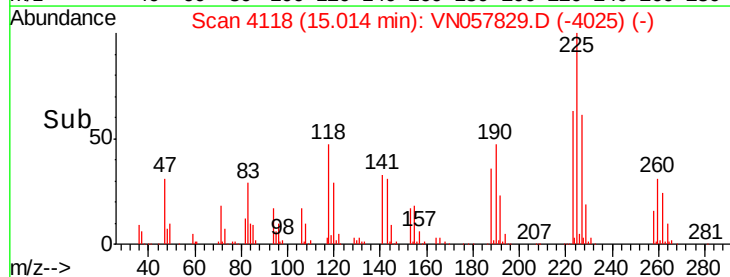
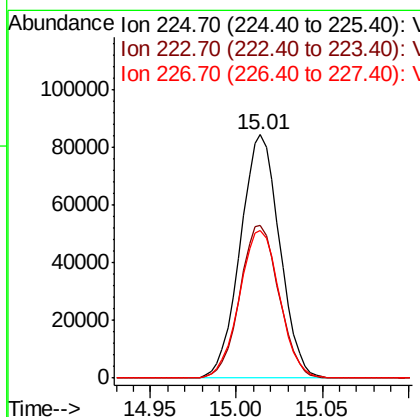
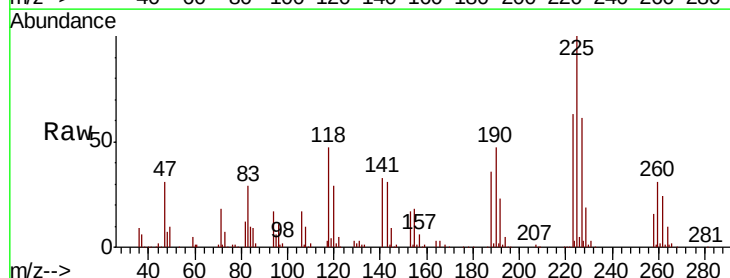
Manual Integrations
 APPROVED

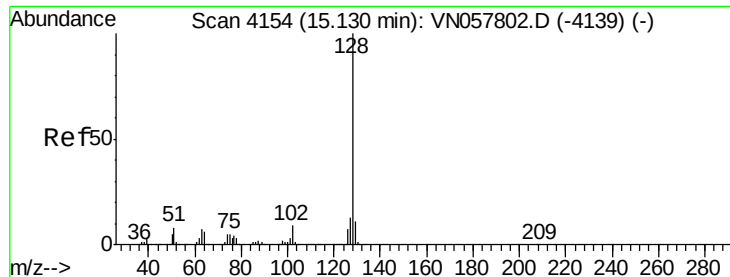
MMDadoda
 9/13/2019 5:16:22 AM



#94
 Hexachlorobutadiene
 Concen: 45.990 ug/l
 RT: 15.01 min Scan# 4118
 Delta R.T. 0.00 min
 Lab File: VN057829.D
 Acq: 10 Sep 2019 2:28

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	134496		
223	62.4	32.4	97.2	
227	61.7	31.8	95.4	





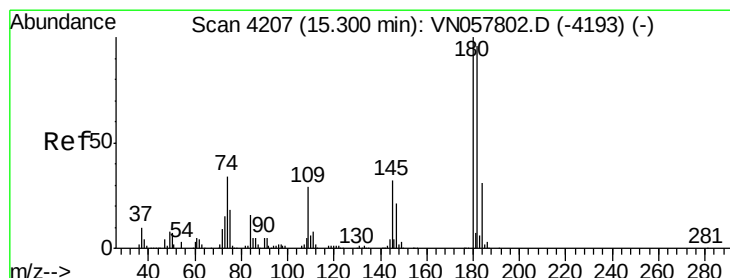
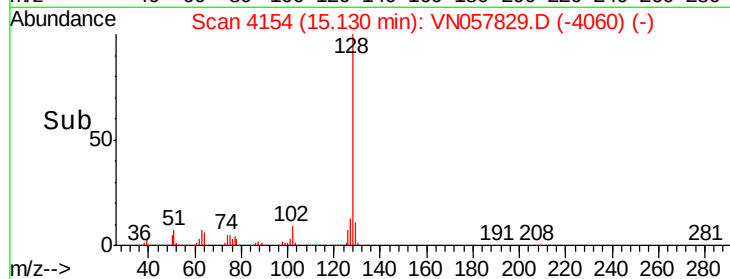
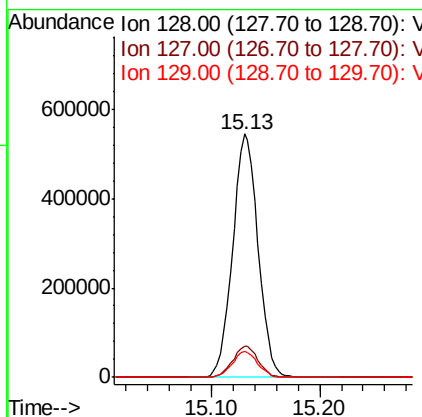
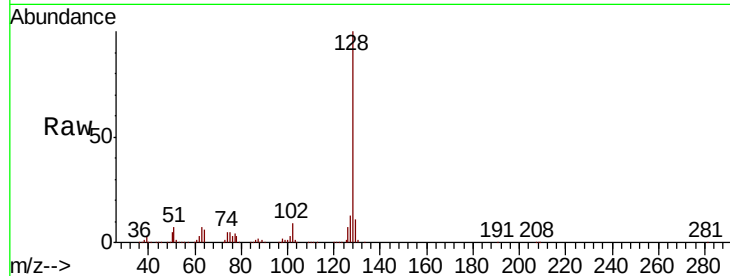
#95
Naphthalene
Concen: 51.308 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN057829.D
Acq: 10 Sep 2019 2:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
128	100	892896		
127	12.9	10.3	15.5	
129	10.6	8.6	12.8	

Manual Integrations
APPROVED

MMDadoda
9/13/2019 5:16:22 AM



#96
1,2,3-Trichlorobenzene
Concen: 48.151 ug/l
RT: 15.30 min Scan# 4207
Delta R.T. 0.00 min
Lab File: VN057829.D
Acq: 10 Sep 2019 2:28

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	289775		
182	95.6	48.3	144.8	
145	32.9	16.3	48.8	

