

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092818\
 Data File : VN051616.D
 Acq On : 28 Sep 2018 14:57
 Operator : MD\SY
 Sample : VSTDICV020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN092818

Manual Integrations
 APPROVED

MMDadoda
 10/3/2018 5:27:41 PM

Quant Time: Sep 29 02:25:22 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N092818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Sep 29 01:07:29 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	106675	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	588498	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	505787	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	224125	30.17	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.57%
60) 4-Bromofluorobenzene	12.40	95	233568	30.03	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.10%
63) Toluene-d8	10.09	98	733301	30.73	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.43%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	204432	21.837 ug/l	96
3) Chloromethane	2.06	50	215320	20.553 ug/l	100
4) Vinyl Chloride	2.18	62	231906	22.565 ug/l	98
5) Bromomethane	2.57	94	96537	18.084 ug/l	95
6) Chloroethane	2.70	64	110081	21.351 ug/l	99
7) Trichlorofluoromethane	3.01	101	259534	20.669 ug/l	99
8) Diethyl Ether	3.41	74	77132	19.557 ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.75	101	151595	21.358 ug/l	97
10) 1,1-Dichloroethene	3.74	96	129740	20.142 ug/l	98
11) Methyl Iodide	3.95	142	166839	20.122 ug/l	98
12) Methyl Acetate	4.33	43	109818	19.318 ug/l	98
13) Acrolein	3.61	56	53286	84.844 ug/l	98
14) Acrylonitrile	4.99	53	218830	96.121 ug/l	98
15) Acetone	3.82	58	60428	101.234 ug/l	93
16) Carbon Disulfide	4.05	76	404317	19.479 ug/l	100
17) Allyl chloride	4.32	41	224065	19.446 ug/l	98
18) Methylene Chloride	4.55	84	149578	20.199 ug/l	99
19) trans-1,2-Dichloroethene	5.04	96	135829	19.865 ug/l	97
20) Diisopropyl ether	5.95	45	471468	20.626 ug/l	98
21) 1,1-Dichloroethane	5.85	63	274184	20.239 ug/l	100
22) cis-1,2-Dichloroethene	6.83	96	146204	19.579 ug/l	95
23) tert-Butyl Alcohol	4.78	59	41579	95.479 ug/l	# 100
24) Methyl tert-Butyl Ether	5.05	73	333755	19.716 ug/l	99
25) Chloroform	7.37	83	262086	20.233 ug/l	98
26) Cyclohexane	7.65	56	235741	20.108 ug/l	99
29) 1,1-Dichloropropene	7.79	75	201127	20.042 ug/l	99
30) 2-Butanone	6.84	43	265231	97.112 ug/l	99
31) 2,2-Dichloropropane	6.83	77	220783	20.385 ug/l	100
32) 1,1,1-Trichloroethane	7.57	97	227329	20.162 ug/l	100
33) Carbon Tetrachloride	7.77	117	204364	20.166 ug/l	99
34) Benzene	8.04	78	605735	20.346 ug/l	99
35) Methacrylonitrile	7.18	41	51694m	16.835 ug/l	
36) 1,2-Dichloroethane	8.12	62	186801	19.684 ug/l	100
37) Trichloroethene	8.83	130	154026	20.150 ug/l	98
38) Methylcyclohexane	9.08	83	226670	19.575 ug/l	99
39) 1,2-Dichloropropane	9.12	63	166275	20.382 ug/l	98
40) Dibromomethane	9.21	93	91284	20.143 ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092818\
 Data File : VN051616.D
 Acq On : 28 Sep 2018 14:57
 Operator : MD\SY
 Sample : VSTDICV020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleID :
 ICVVN092818

Manual Integrations
 APPROVED

MMDadoda
 10/3/2018 5:27:41 PM

Quant Time: Sep 29 02:25:22 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N092818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Sep 29 01:07:29 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	197621	19.978	ug/l	100
42) Vinyl Acetate	5.90	43	1468544	96.583	ug/l	100
43) Ethyl Acetate	6.93	43	117665	20.353	ug/l #	84
44) Isopropyl Acetate	8.16	43	215064	19.000	ug/l #	79
45) 1,4-Dioxane	9.20	88	25120	410.240	ug/l	96
46) Methyl methacrylate	9.20	41	100964	19.174	ug/l	97
47) n-amyl Acetate	12.07	43	153680	18.145	ug/l	100
48) t-1,3-Dichloropropene	10.38	75	185951	18.834	ug/l	96
49) cis-1,3-Dichloropropene	9.84	75	225903	19.571	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	127558	19.918	ug/l	97
51) Ethyl methacrylate	10.43	69	144451	18.590	ug/l	99
52) 1,3-Dichloropropane	10.71	76	216922	19.755	ug/l	100
53) Dibromochloromethane	10.90	129	142945	19.598	ug/l	97
54) 1,2-Dibromoethane	11.00	107	120599	19.625	ug/l	97
55) 2-Chloroethyl vinyl ether	9.70	63	363205	94.569	ug/l	99
56) Bromoform	12.13	173	90841	18.769	ug/l	98
58) 4-Methyl-2-Pentanone	9.99	43	582100	101.367	ug/l	99
59) 2-Hexanone	10.75	43	375084	99.285	ug/l	99
61) Tetrachloroethene	10.63	164	149050	20.814	ug/l	98
62) Toluene	10.16	91	625488	20.168	ug/l	100
64) Chlorobenzene	11.43	112	372395	19.860	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	144683	20.207	ug/l	99
66) Ethyl Benzene	11.51	91	624841	19.686	ug/l	99
67) m/p-Xylenes	11.62	106	498520	40.752	ug/l	98
68) o-Xylene	11.95	106	234253	20.060	ug/l	98
69) Styrene	11.96	104	362003	19.750	ug/l	100
70) Isopropylbenzene	12.25	105	635037	20.387	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	148839	19.750	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	134140m	20.819	ug/l	
73) Bromobenzene	12.53	156	154842	19.975	ug/l	95
74) n-propylbenzene	12.59	91	728914	20.101	ug/l	100
75) 2-Chlorotoluene	12.67	91	441287	20.379	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	531867	20.434	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	38288	18.762	ug/l	98
78) 4-Chlorotoluene	12.77	91	432012	20.197	ug/l	98
79) tert-butylbenzene	12.99	119	453853	20.127	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	536283	20.628	ug/l	100
81) sec-Butylbenzene	13.17	105	638208	20.489	ug/l	99
82) p-Isopropyltoluene	13.29	119	543191	20.403	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	270728	20.043	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	249123	19.620	ug/l	100
85) n-Butylbenzene	13.62	91	424533	19.427	ug/l	100
86) Hexachloroethane	13.87	117	105756	19.861	ug/l	97
87) 1,2-Dichlorobenzene	13.65	146	262234	19.846	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	21101	19.210	ug/l	99
89) 1,2,4-Trichlorobenzene	14.91	180	105023	16.981	ug/l	98
90) Hexachlorobutadiene	15.01	225	108138	21.447	ug/l	95
91) Naphthalene	15.13	128	173517	17.821	ug/l	100
92) 1,2,3-Trichlorobenzene	15.31	180	111288	17.892	ug/l	100

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092818\
Data File : VN051616.D
Acq On : 28 Sep 2018 14:57
Operator : MD\SY
Sample : VSTDICV020
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 11 Sample Multiplier: 28

Instrument :
MSVOA_N
ClientSampleId :
ICVVN092818

Manual Integrations
APPROVED

MMDadoda
10/3/2018 5:27:41 PM

Quant Time: Sep 29 02:25:22 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N092818W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Sep 29 01:07:29 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
--------------------	------	------	----------	------	-------	----------

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

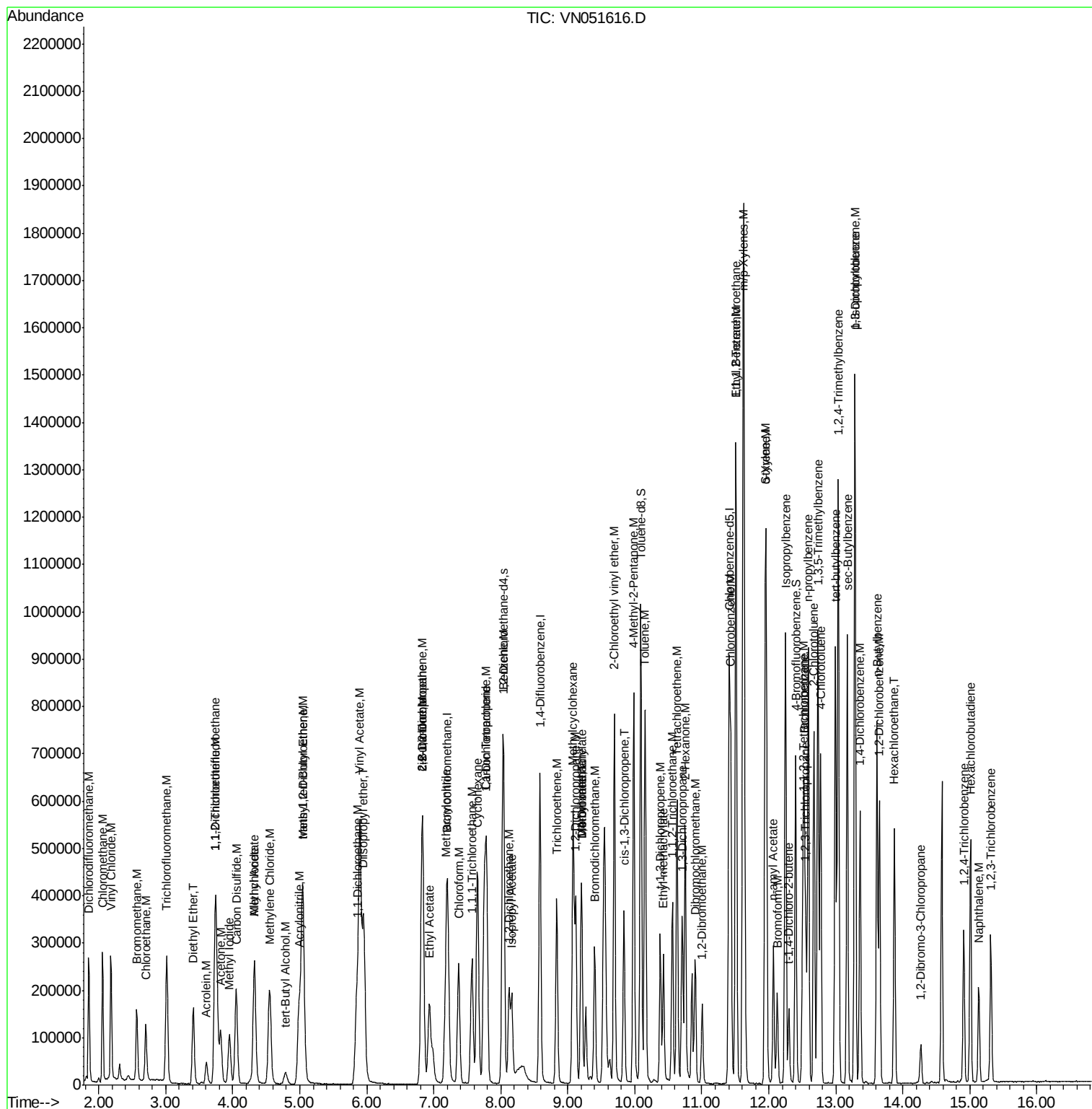
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092818\
Data File : VN051616.D
Acq On : 28 Sep 2018 14:57
Operator : MD\SY
Sample : VSTDICV020
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 11 Sample Multiplier: 28

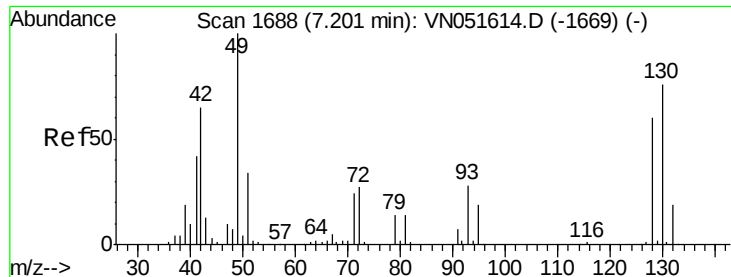
Instrument :
MSVOA_N
ClientSampleId :
ICVVN092818

Manual Integrations
APPROVED

MMDadoda
10/3/2018 5:27:41 PM

Quant Time: Sep 29 02:25:22 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N092818W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Sep 29 01:07:29 2018
Response via : Initial Calibration





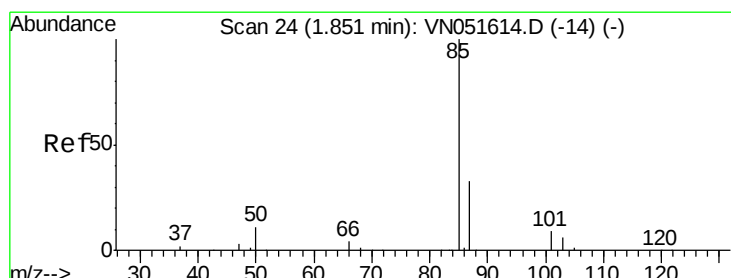
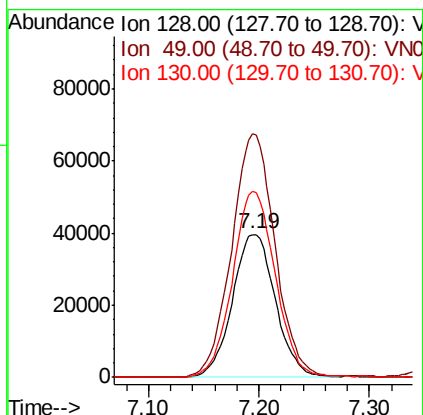
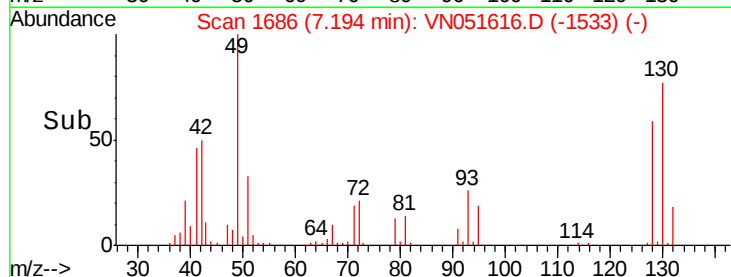
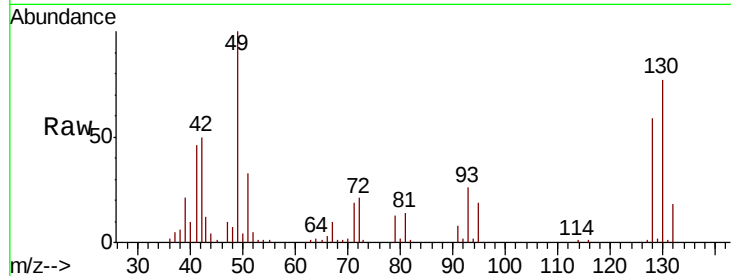
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.19 min Scan# 1686
Delta R.T. -0.01 min
Lab File: VN051616.D
Acq: 28 Sep 2018 14:57

Instrument :
MSVOA_N
ClientSampled :
ICVVN092818

Tot Ion	Ratio	Lower	Upper
128	100		
49	172.2	0.0	426.8
130	129.9	0.0	326.3

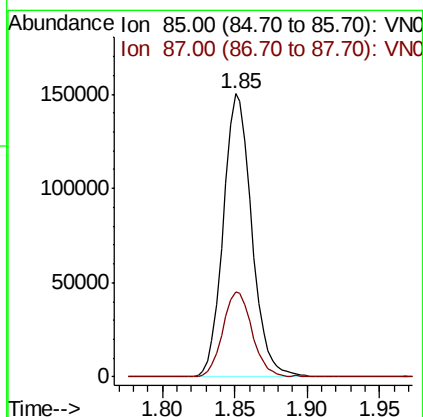
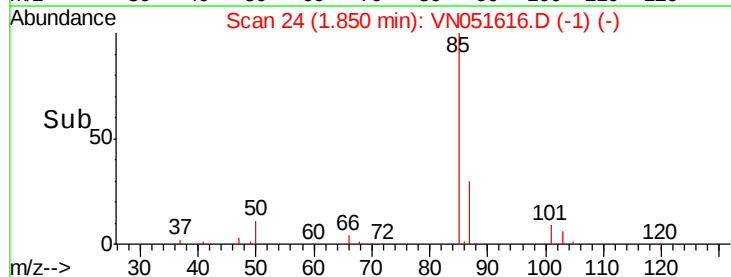
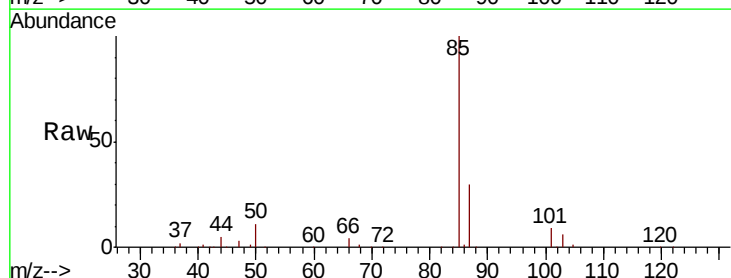
Manual Integrations
APPROVED

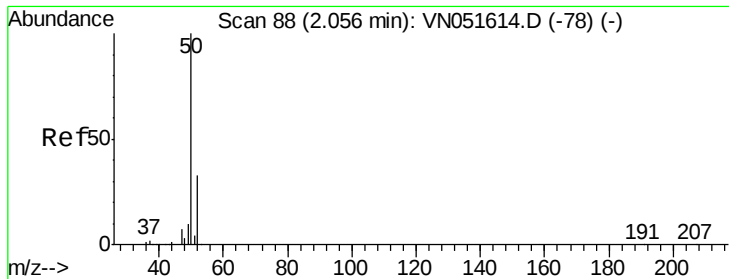
MMDadoda
10/3/2018 5:27:41 PM



#2
Dichlorodifluoromethane
Concen: 21.837 ug/l
RT: 1.85 min Scan# 24
Delta R.T. -0.00 min
Lab File: VN051616.D
Acq: 28 Sep 2018 14:57

Tgt Ion	Ratio	Lower	Upper
85	100		
87	30.2	16.3	48.8





#3

Chloromethane

Concen: 20.553 ug/l

RT: 2.06 min Scan# 88

Delta R.T. -0.00 min

Lab File: VN051616.D

Acq: 28 Sep 2018 14:57

Instrument :

MSVOA_N

ClientSampleId :

ICVFN092818

Tot Ion: 50 Resp: 215320

Ion Ratio Lower Upper

50 100

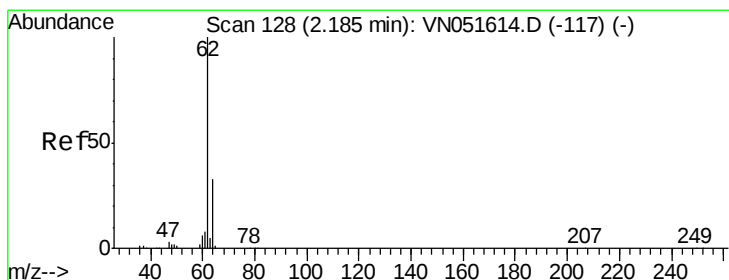
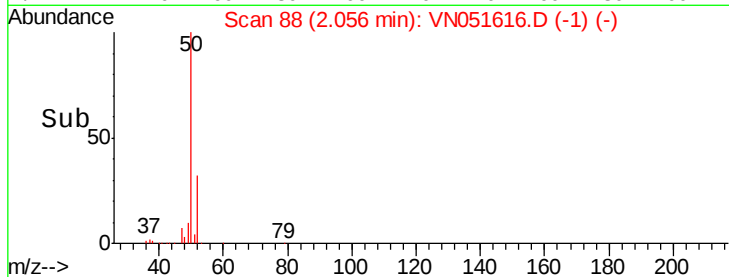
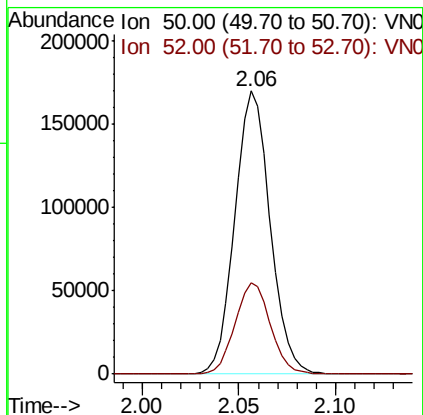
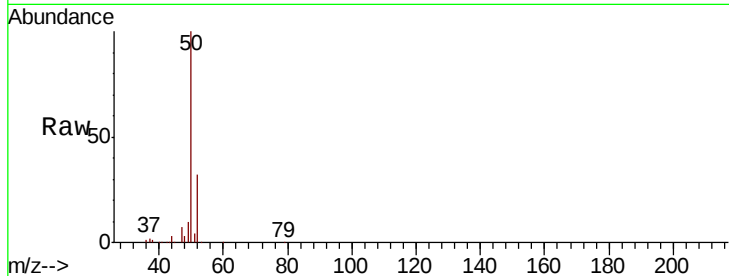
52 32.2 26.0 39.0

Manual Integrations

APPROVED

MMDadoda

10/3/2018 5:27:41 PM



#4

Vinyl Chloride

Concen: 22.565 ug/l

RT: 2.18 min Scan# 127

Delta R.T. -0.00 min

Lab File: VN051616.D

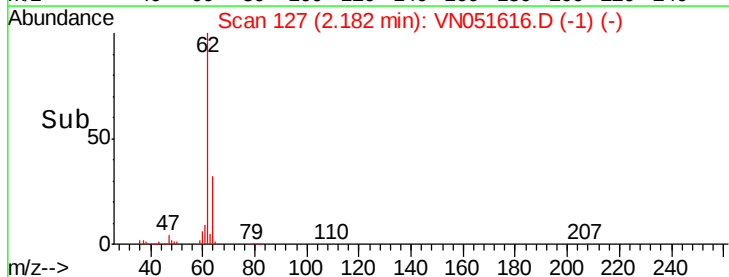
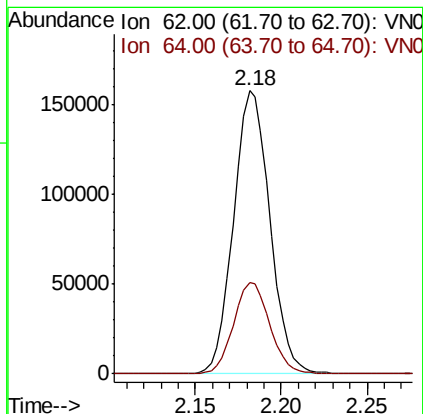
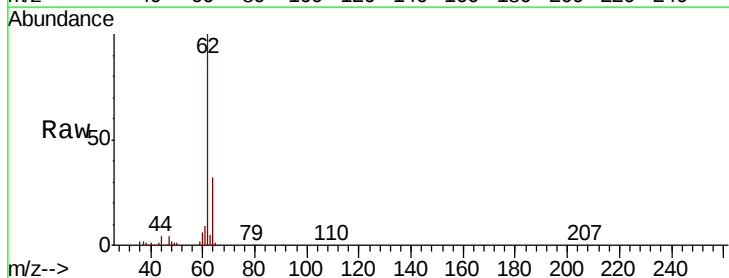
Acq: 28 Sep 2018 14:57

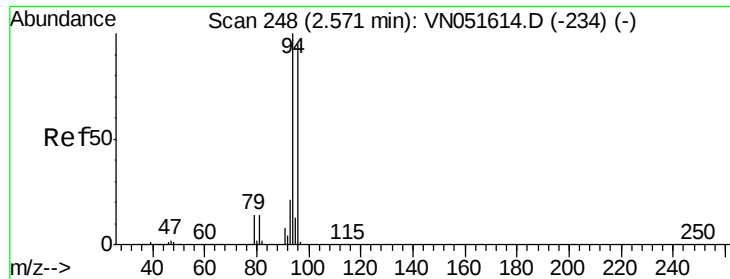
Tgt Ion: 62 Resp: 231906

Ion Ratio Lower Upper

62 100

64 32.1 26.3 39.5





#5

Bromomethane

Concen: 18.084 ug/l

RT: 2.57 min Scan# 247

Delta R.T. -0.00 min

Lab File: VN051616.D

Acq: 28 Sep 2018 14:57

Instrument :

MSVOA_N

ClientSampleId :

ICVVN092818

Tot Ion: 94 Resp: 96537

Ion Ratio Lower Upper

94 100

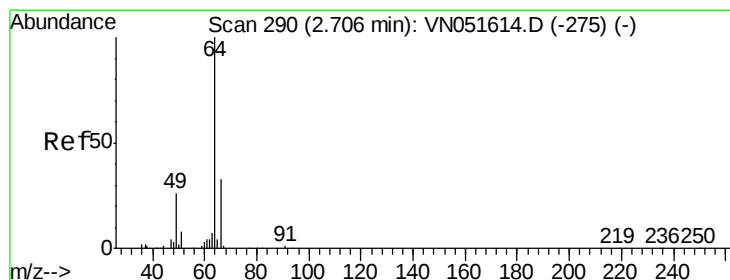
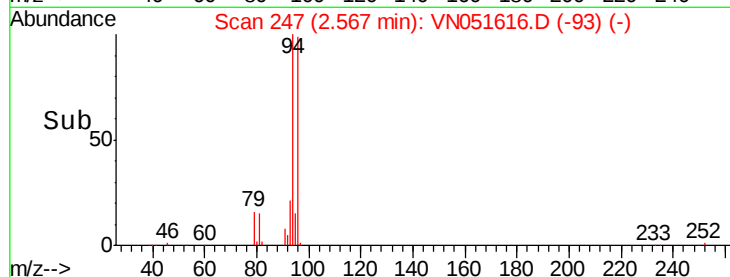
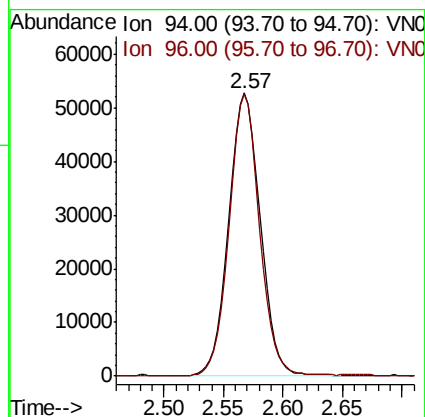
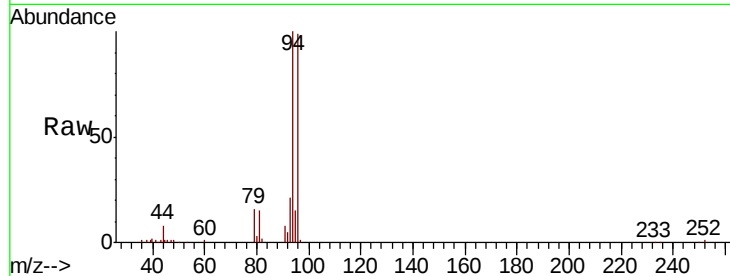
96 99.5 75.8 113.6

Manual Integrations

APPROVED

MMDadoda

10/3/2018 5:27:41 PM



#6

Chloroethane

Concen: 21.351 ug/l

RT: 2.70 min Scan# 289

Delta R.T. -0.00 min

Lab File: VN051616.D

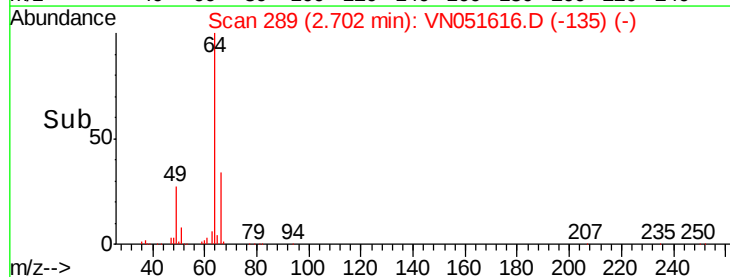
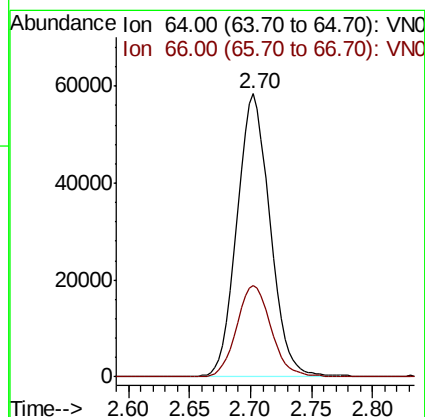
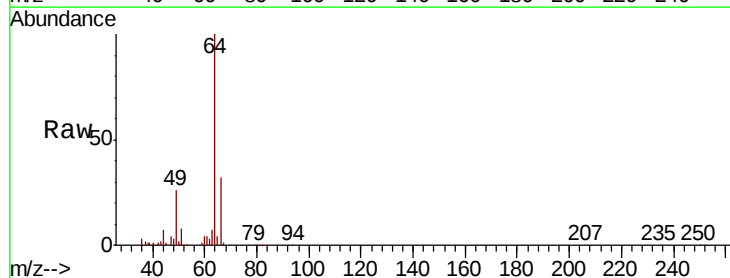
Acq: 28 Sep 2018 14:57

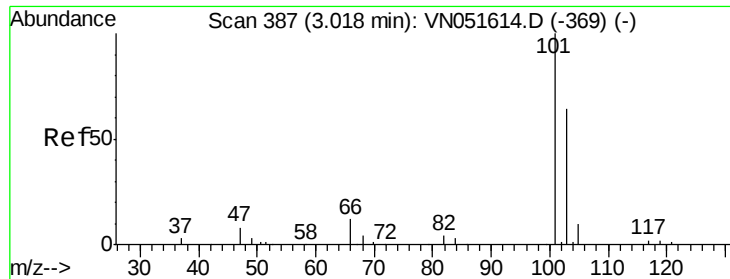
Tgt Ion: 64 Resp: 110081

Ion Ratio Lower Upper

64 100

66 32.2 26.1 39.1





#7

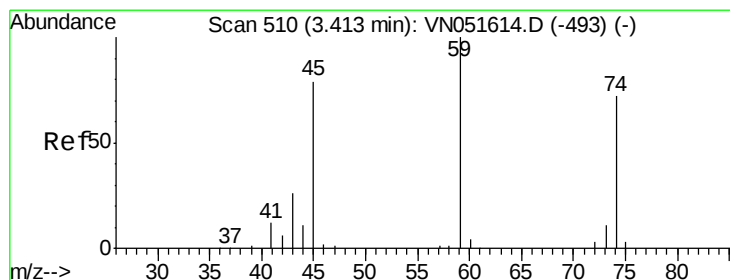
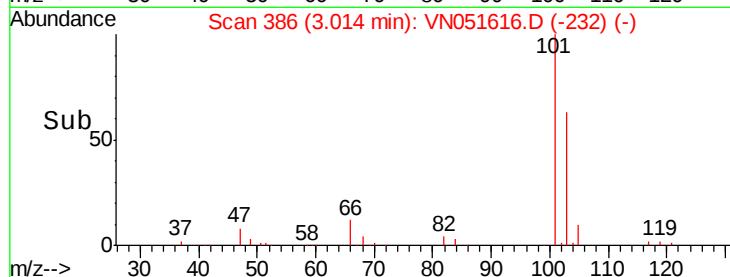
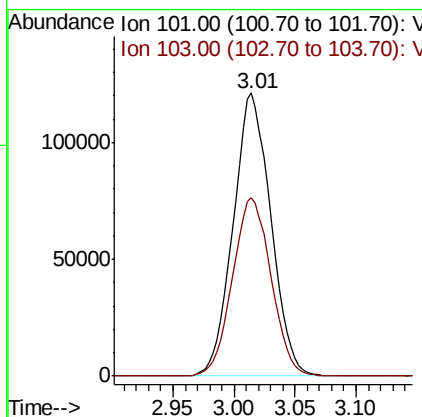
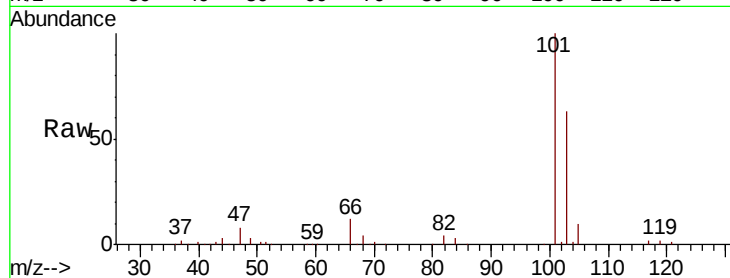
Trichlorofluoromethane
 Concen: 20.669 ug/l
 RT: 3.01 min Scan# 386
 Delta R.T. -0.00 min
 Lab File: VN051616.D
 Acq: 28 Sep 2018 14:57

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN092818

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.2	51.2	76.8

Manual Integrations
 APPROVED

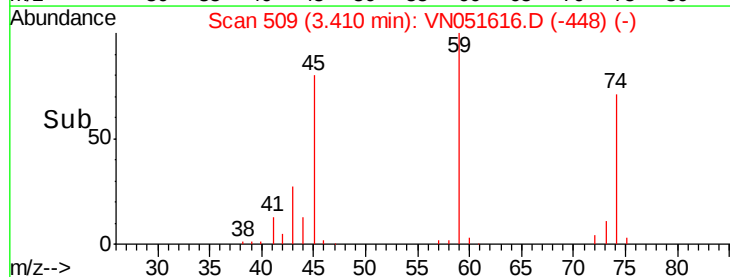
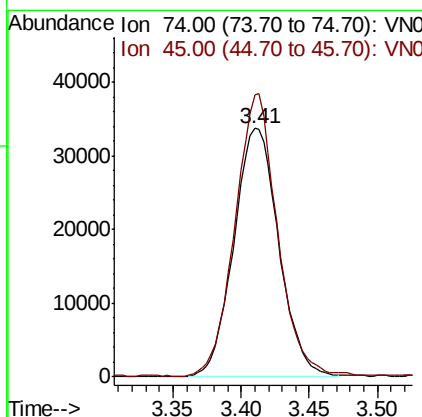
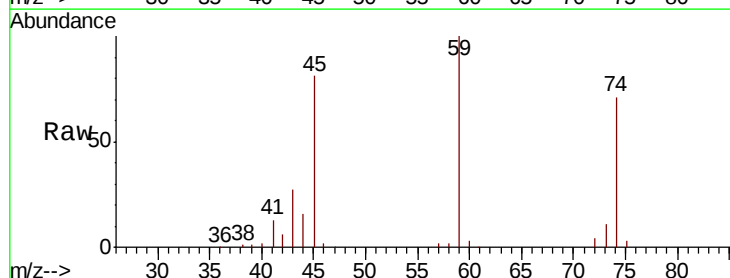
MMDadoda
 10/3/2018 5:27:41 PM

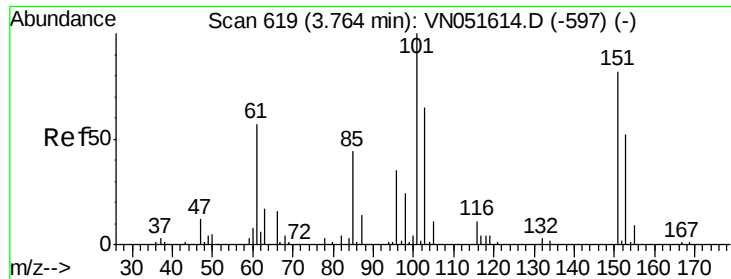


#8

Diethyl Ether
 Concen: 19.557 ug/l
 RT: 3.41 min Scan# 509
 Delta R.T. -0.00 min
 Lab File: VN051616.D
 Acq: 28 Sep 2018 14:57

Tgt Ion	Ratio	Lower	Upper
74	100		
45	107.7	21.3	191.5





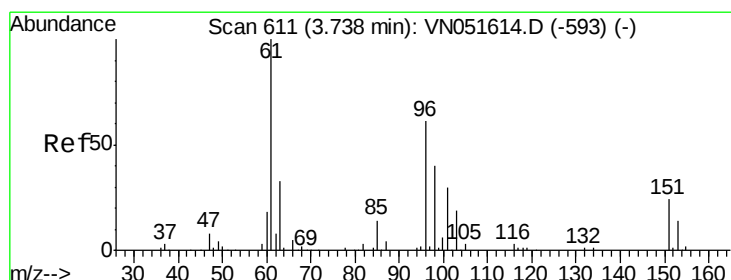
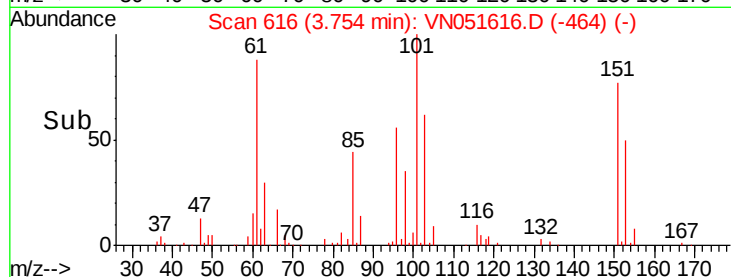
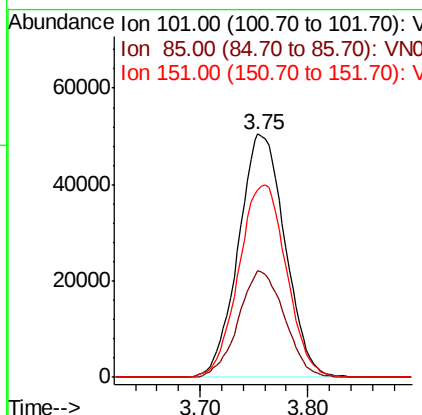
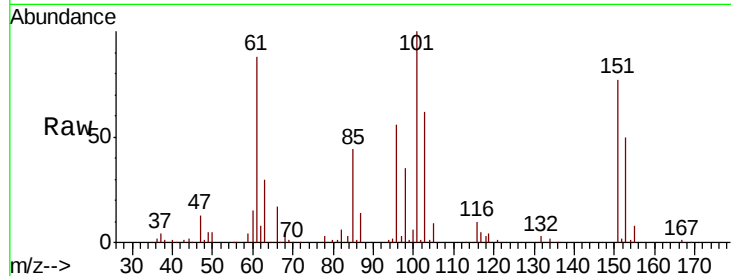
#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.358 ug/l
RT: 3.75 min Scan# 616
Delta R.T. -0.01 min
Lab File: VN051616.D
Acq: 28 Sep 2018 14:57

Instrument :
MSVOA_N
ClientSampleId :
ICVVN092818

Tot Ion	Ratio	Resp Lower	Upper
101	100		
85	43.1	0.0	89.4
151	81.0	0.0	167.6

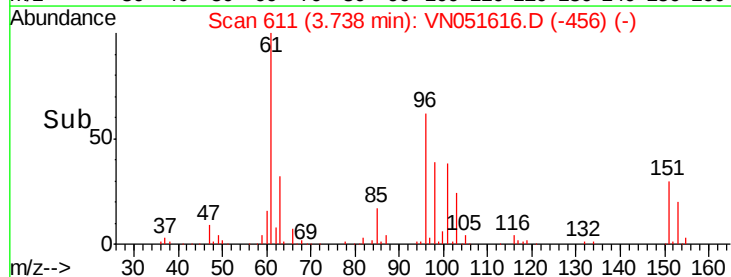
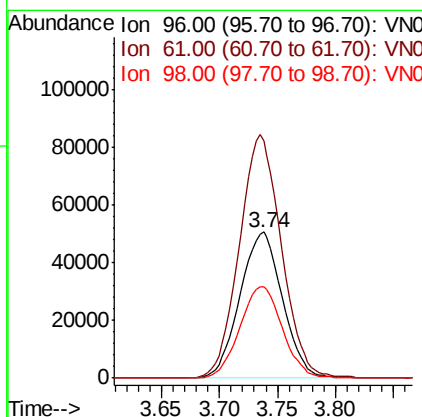
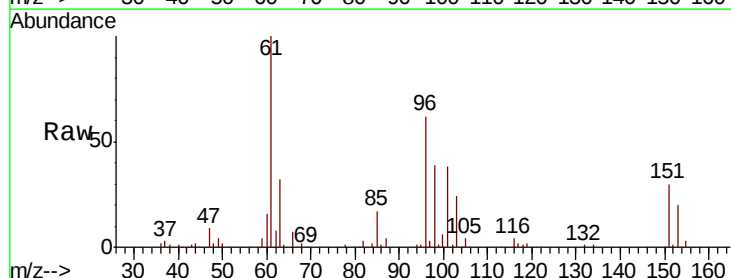
Manual Integrations
APPROVED

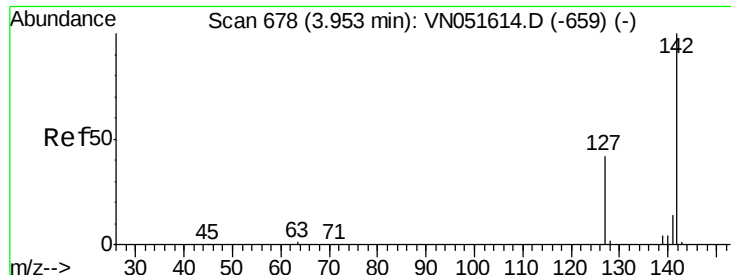
MMDadoda
10/3/2018 5:27:41 PM



#10
1,1-Dichloroethene
Concen: 20.142 ug/l
RT: 3.74 min Scan# 611
Delta R.T. -0.00 min
Lab File: VN051616.D
Acq: 28 Sep 2018 14:57

Tgt Ion	Ratio	Resp Lower	Upper
96	100		
61	162.3	131.0	196.4
98	62.6	52.7	79.1





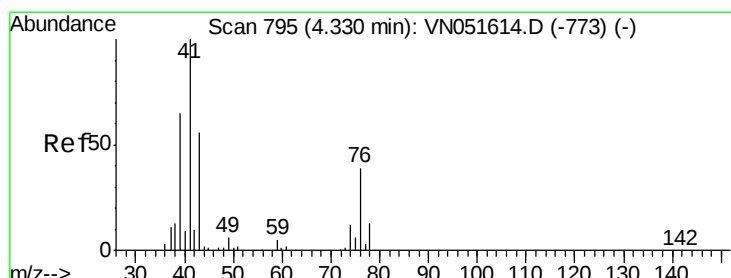
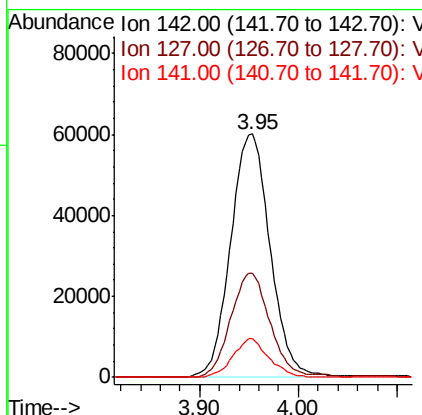
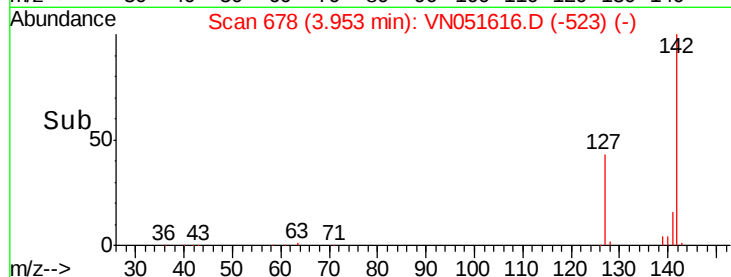
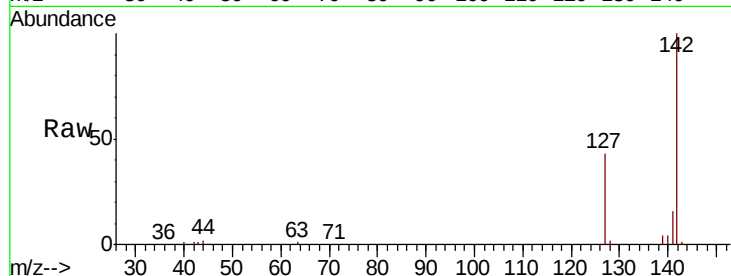
#11
Methyl Iodide
Concen: 20.122 ug/l
RT: 3.95 min Scan# 678
Delta R.T. -0.00 min
Lab File: VN051616.D
Acq: 28 Sep 2018 14:57

Instrument :
MSVOA_N
ClientSampleId :
ICVVN092818

Tot Ion	Ratio	Lower	Upper
142	100		
127	42.7	21.1	63.1
141	16.0	7.1	21.4

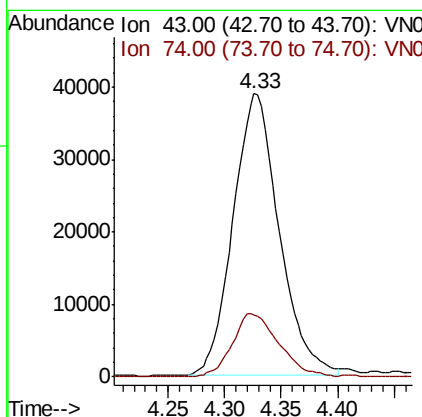
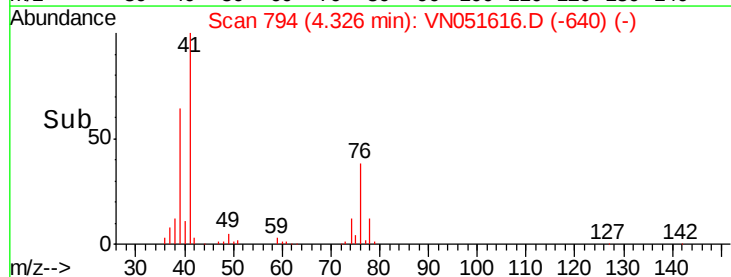
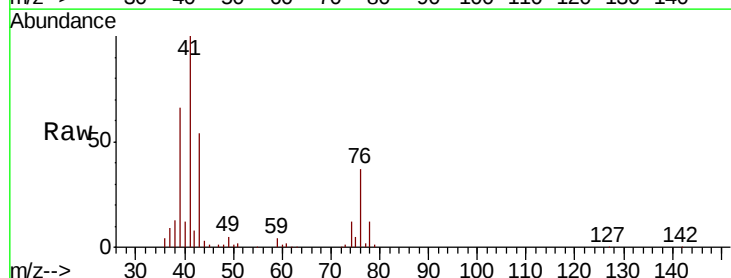
Manual Integrations
APPROVED

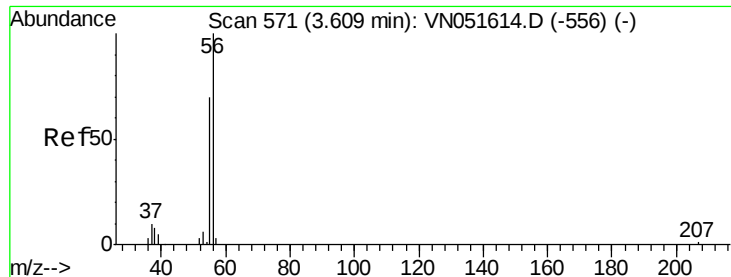
MMDadoda
10/3/2018 5:27:41 PM



#12
Methyl Acetate
Concen: 19.318 ug/l
RT: 4.33 min Scan# 794
Delta R.T. -0.00 min
Lab File: VN051616.D
Acq: 28 Sep 2018 14:57

Tgt Ion	Ratio	Lower	Upper
43	100		
74	22.1	17.0	25.4





#13

Acrolein

Concen: 84.844 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN051616.D

Acq: 28 Sep 2018 14:57

Instrument :

MSVOA_N

ClientSampleId :

ICVVN092818

Tot Ion: 56 Resp: 53286

Ion Ratio Lower Upper

56 100

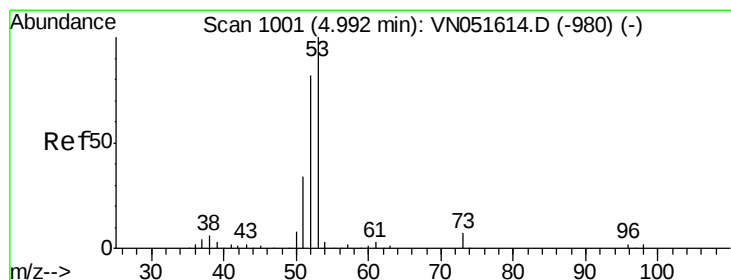
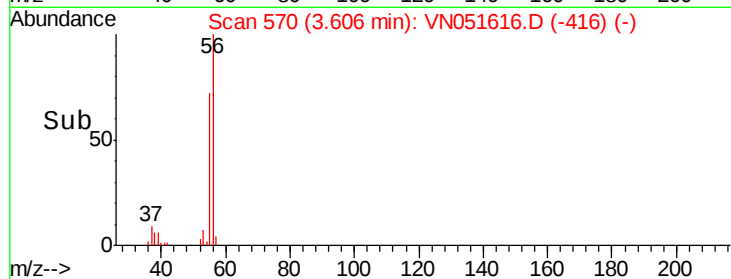
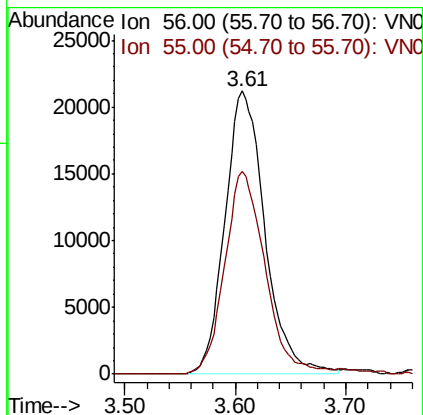
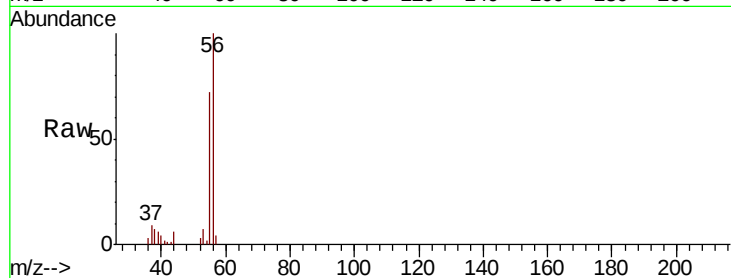
55 71.5 55.8 83.8

Manual Integrations

APPROVED

MMDadoda

10/3/2018 5:27:41 PM



#14

Acrylonitrile

Concen: 96.121 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. -0.00 min

Lab File: VN051616.D

Acq: 28 Sep 2018 14:57

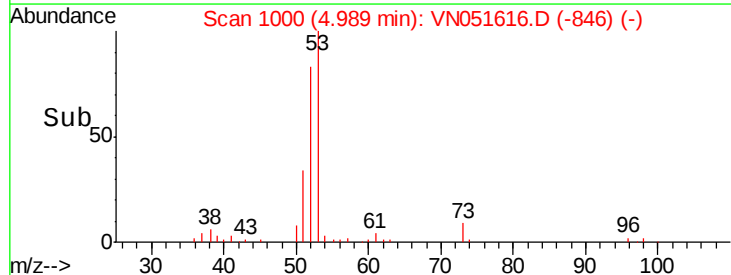
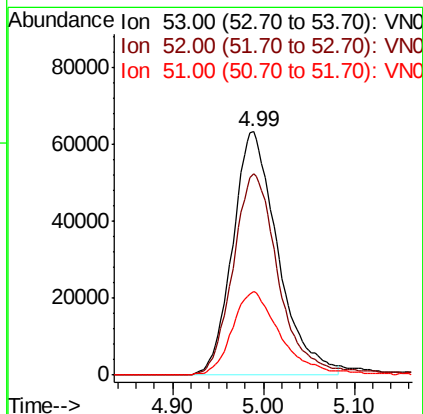
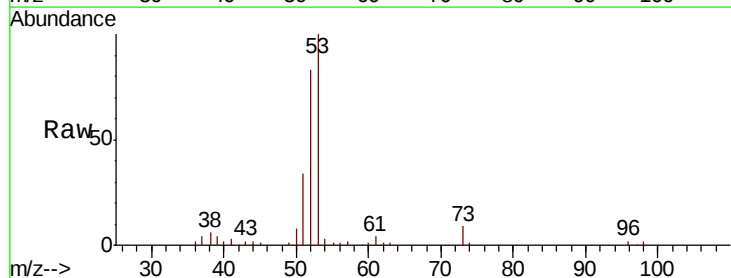
Tgt Ion: 53 Resp: 218830

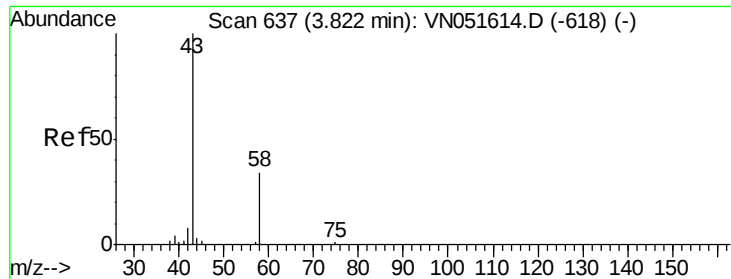
Ion Ratio Lower Upper

53 100

52 83.6 41.3 123.7

51 36.0 17.1 51.2





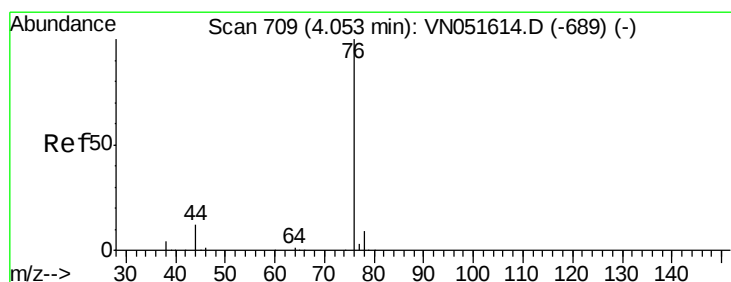
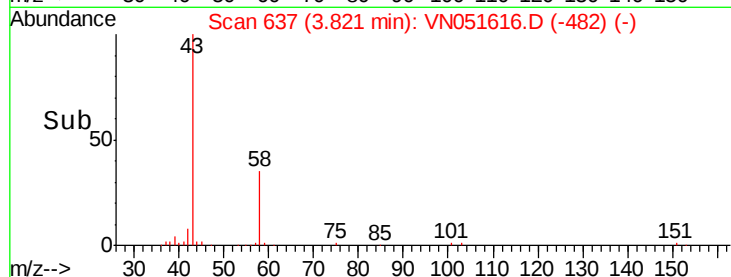
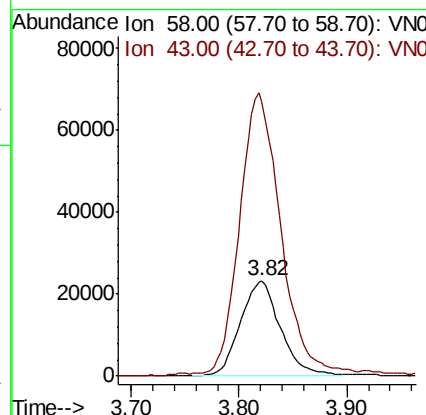
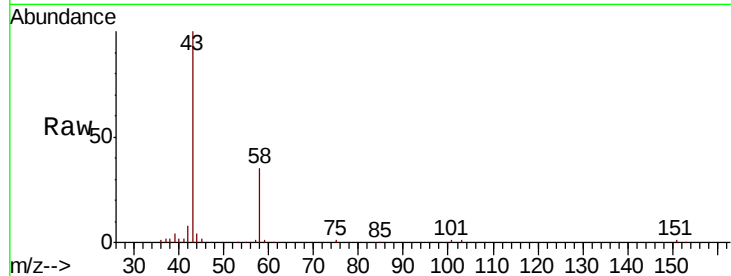
#15
Acetone
Concen: 101.234 ug/l
RT: 3.82 min Scan# 637
Delta R.T. -0.00 min
Lab File: VN051616.D
Acq: 28 Sep 2018 14:57

Instrument :
MSVOA_N
ClientSampleId :
ICVVN092818

Tot Ion: 58 Resp: 60428
Ion Ratio Lower Upper
58 100
43 284.3 238.0 357.0

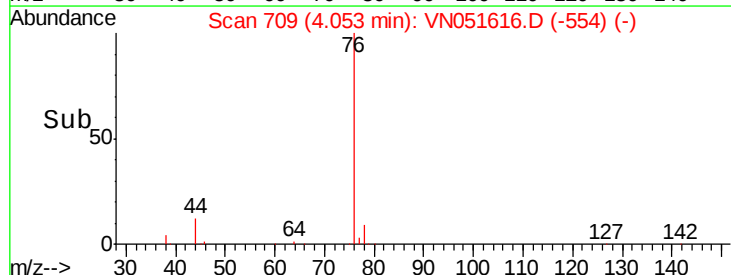
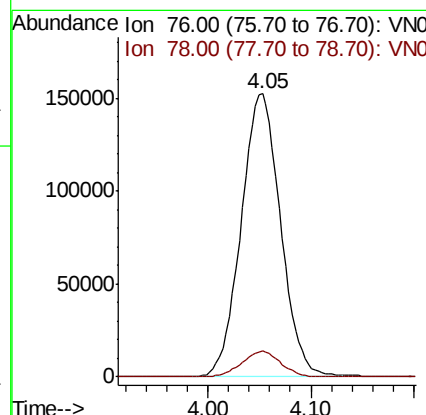
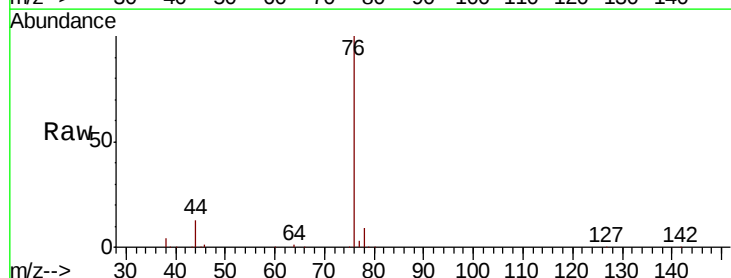
Manual Integrations
APPROVED

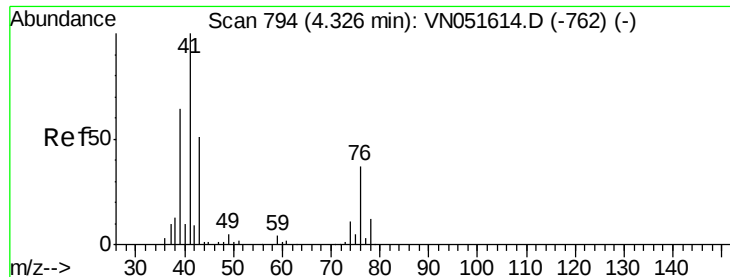
MMDadoda
10/3/2018 5:27:41 PM



#16
Carbon Disulfide
Concen: 19.479 ug/l
RT: 4.05 min Scan# 709
Delta R.T. -0.00 min
Lab File: VN051616.D
Acq: 28 Sep 2018 14:57

Tgt Ion: 76 Resp: 404317
Ion Ratio Lower Upper
76 100
78 9.1 7.3 10.9





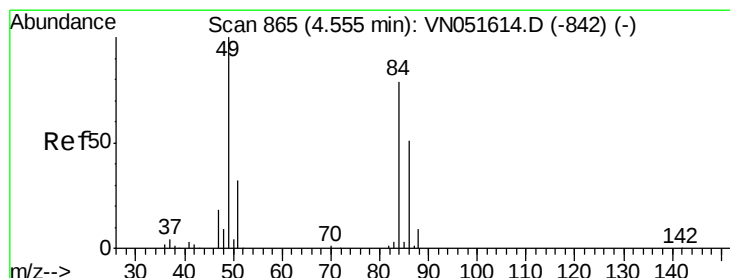
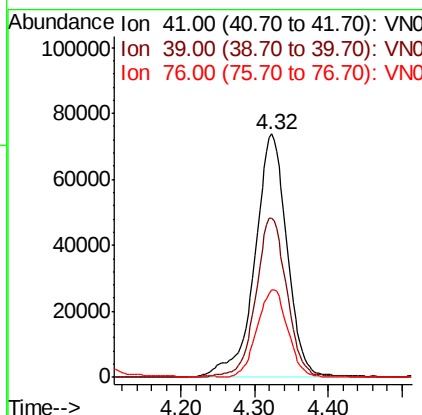
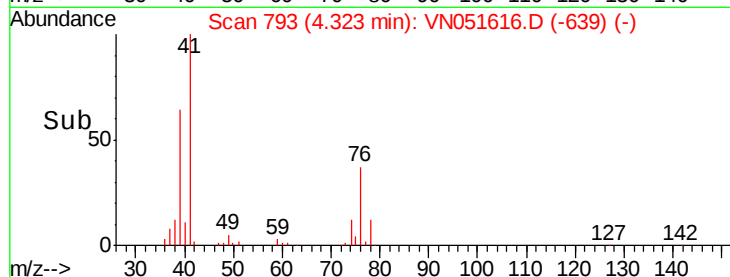
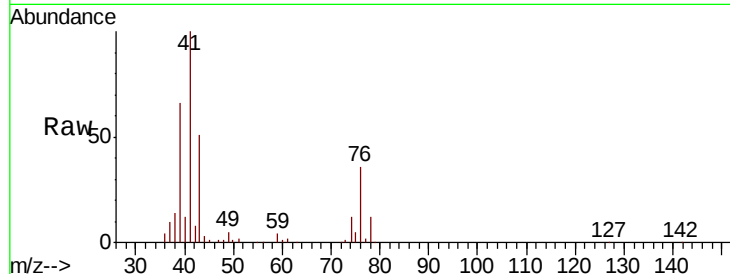
#17
Allvl chloride
Concen: 19.446 ug/l
RT: 4.32 min Scan# 793
Delta R.T. -0.00 min
Lab File: VN051616.D
Acq: 28 Sep 2018 14:57

Instrument :
MSVOA_N
ClientSampleId :
ICVVN092818

Tot Ion	Ratio	Lower	Upper
41	100		
39	65.5	31.9	95.9
76	35.5	18.6	56.0

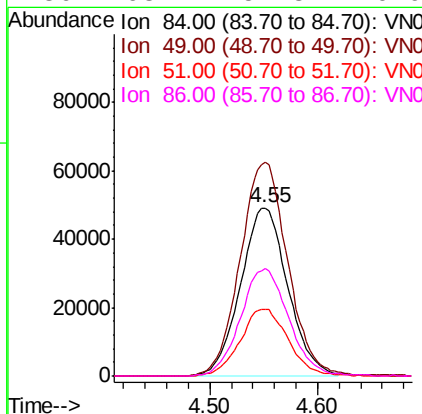
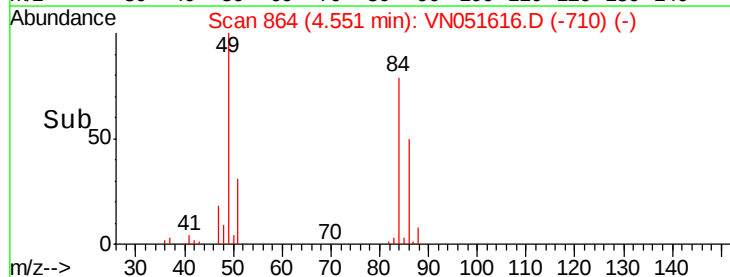
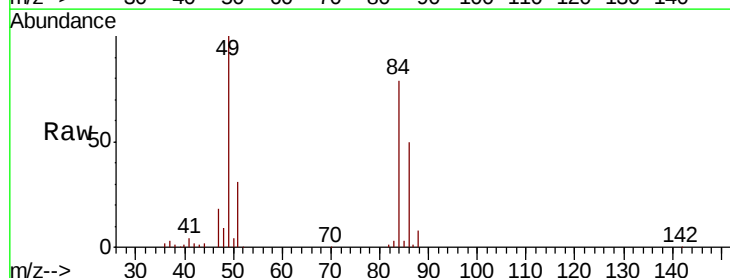
Manual Integrations
APPROVED

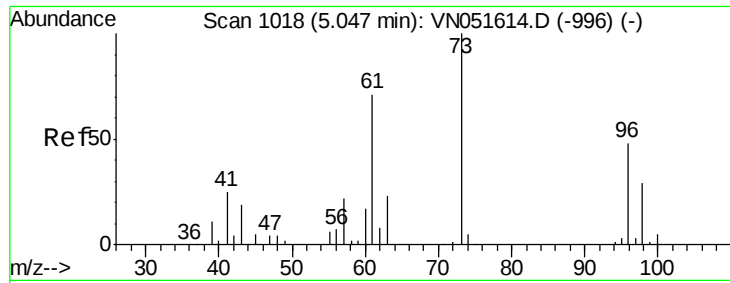
MMDadoda
10/3/2018 5:27:41 PM



#18
Methylene Chloride
Concen: 20.199 ug/l
RT: 4.55 min Scan# 864
Delta R.T. -0.00 min
Lab File: VN051616.D
Acq: 28 Sep 2018 14:57

Tgt Ion	Ratio	Lower	Upper
84	100		
49	127.1	100.9	151.3
51	39.8	32.5	48.7
86	63.7	51.3	76.9





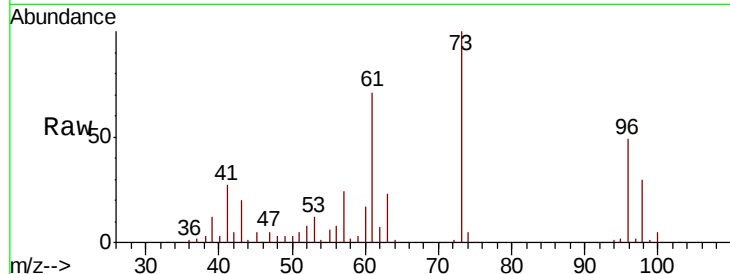
#19
trans-1,2-Dichloroethene
Concen: 19.865 ug/l
RT: 5.04 min Scan# 1016
Delta R.T. -0.01 min
Lab File: VN051616.D
Acq: 28 Sep 2018 14:57

Instrument :
MSVOA_N
ClientSampleId :
ICVVN092818

Tot Ion	Ratio	Lower	Upper
96	100		
61	143.2	118.0	177.0
98	60.7	49.0	73.4

Manual Integrations
APPROVED

MMDadoda
10/3/2018 5:27:41 PM

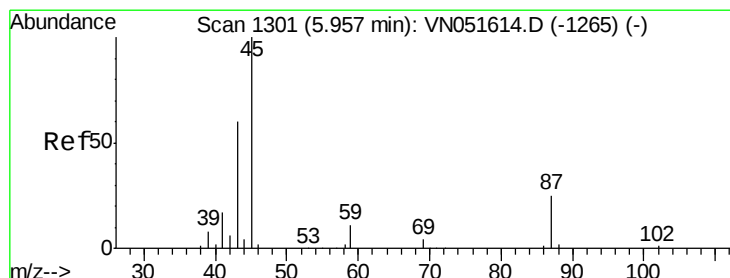
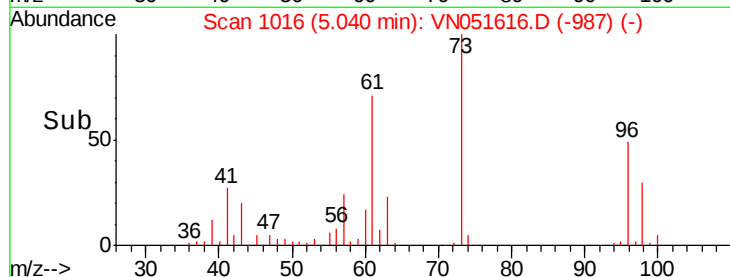
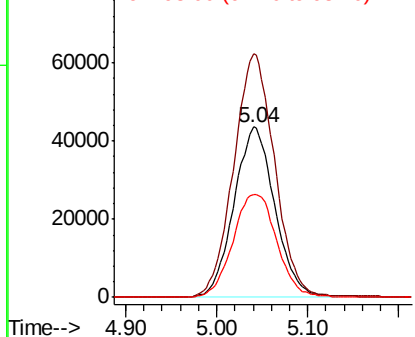


Abundance

Ion 96.00 (95.70 to 96.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 98.00 (97.70 to 98.70): VN0



#20
Diisopropyl ether
Concen: 20.626 ug/l
RT: 5.95 min Scan# 1299
Delta R.T. -0.01 min
Lab File: VN051616.D
Acq: 28 Sep 2018 14:57

Tgt Ion	Ratio	Lower	Upper
45	100		
43	62.6	48.3	72.5
87	26.0	20.8	31.2
59	11.8	8.8	13.2

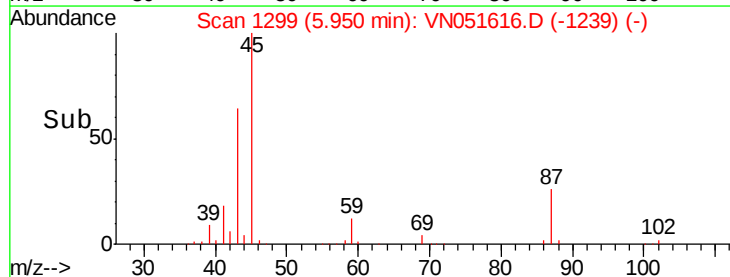
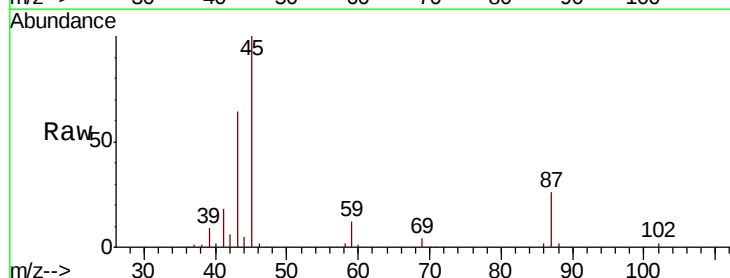
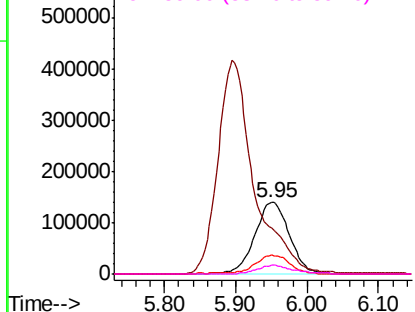
Abundance

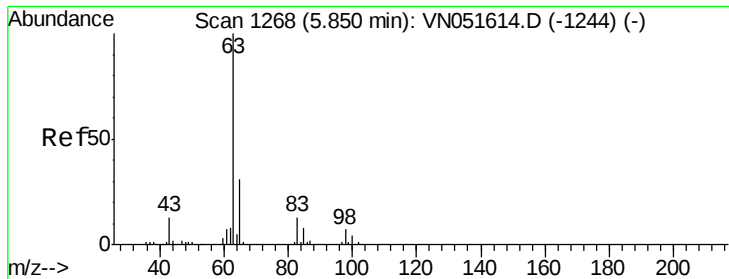
Ion 45.00 (44.70 to 45.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

Ion 59.00 (58.70 to 59.70): VN0





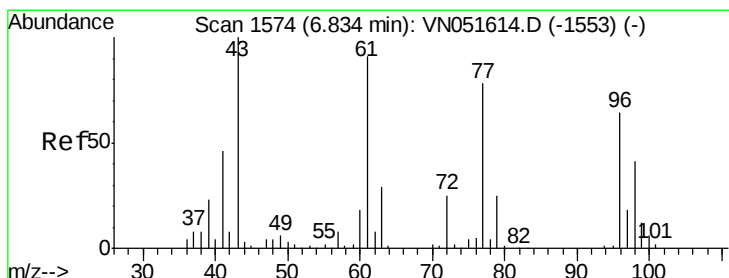
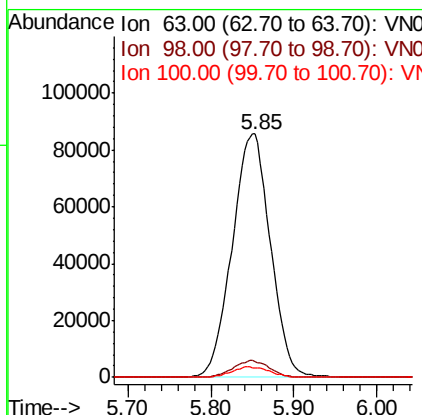
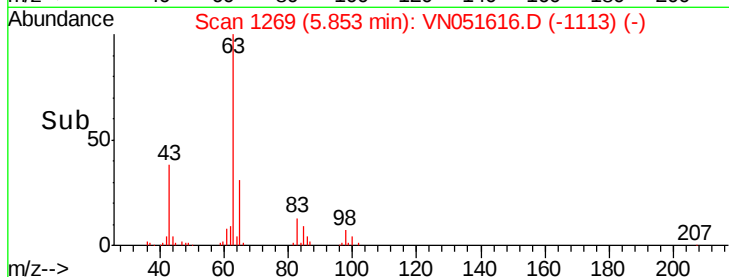
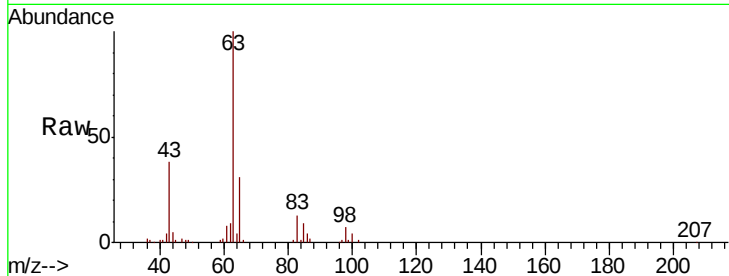
#21
 1,1-Dichloroethane
 Concen: 20.239 ug/l
 RT: 5.85 min Scan# 1269
 Delta R.T. 0.00 min
 Lab File: VN051616.D
 Acq: 28 Sep 2018 14:57

Instrument :
 MSVOA_N
 ClientSampled :
 ICVVN092818

Tot Ion	Ratio	Resp	Lower	Upper
63	100	274184		
98	6.6		3.3	9.9
100	3.8		2.0	5.8

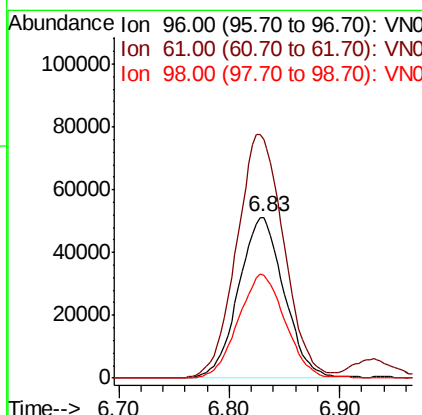
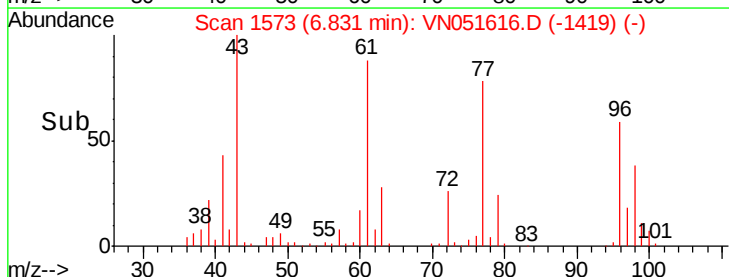
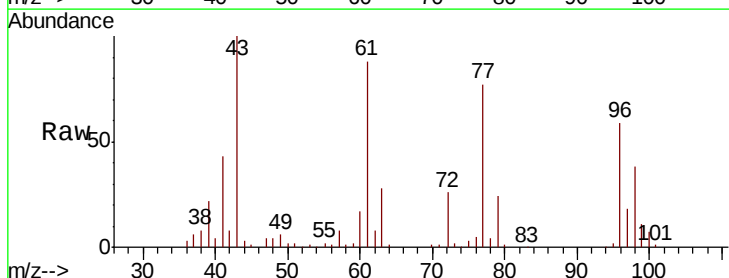
Manual Integrations
 APPROVED

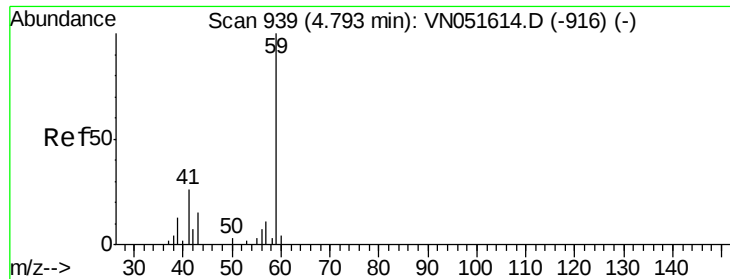
MMDadoda
 10/3/2018 5:27:41 PM



#22
 cis-1,2-Dichloroethene
 Concen: 19.579 ug/l
 RT: 6.83 min Scan# 1573
 Delta R.T. -0.00 min
 Lab File: VN051616.D
 Acq: 28 Sep 2018 14:57

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	146204		
61	157.5		120.4	180.6
98	66.3		51.4	77.0





#23

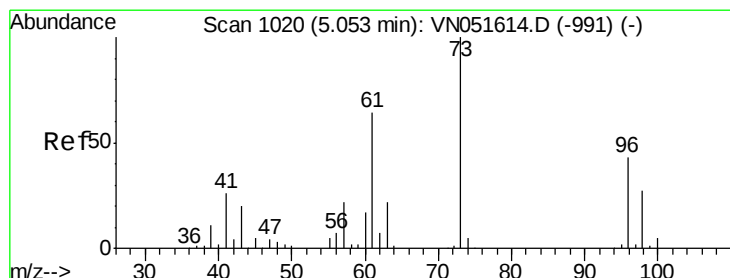
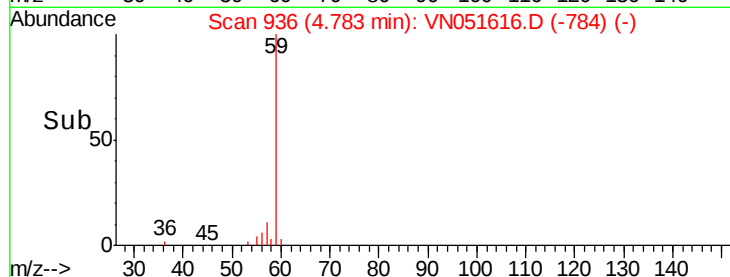
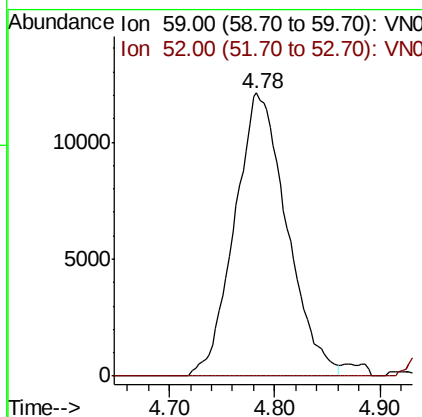
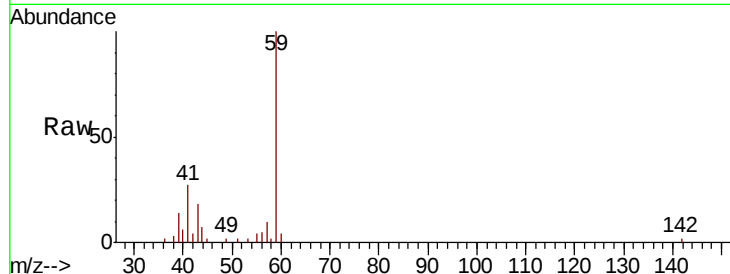
tert-Butyl Alcohol
 Concen: 95.479 ug/l
 RT: 4.78 min Scan# 936
 Delta R.T. -0.01 min
 Lab File: VN051616.D
 Acq: 28 Sep 2018 14:57

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN092818

Tot Ion: 59 Resp: 41579
 Ion Ratio Lower Upper
 59 100
 52 0.3 0.0 0.0#

Manual Integrations
 APPROVED

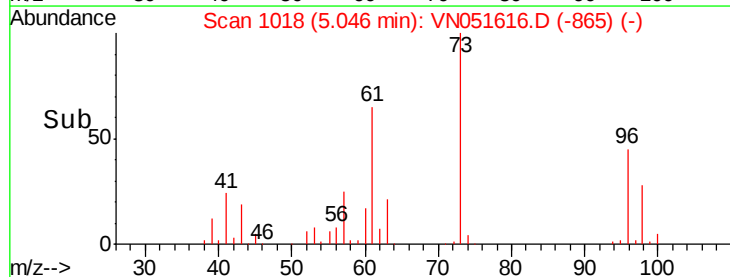
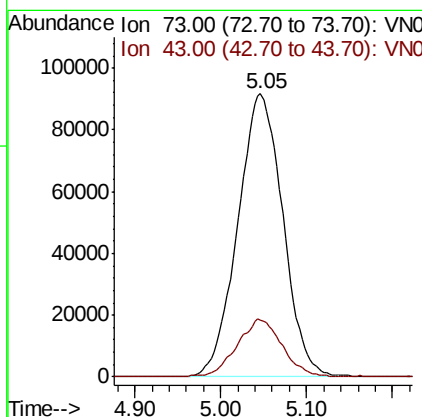
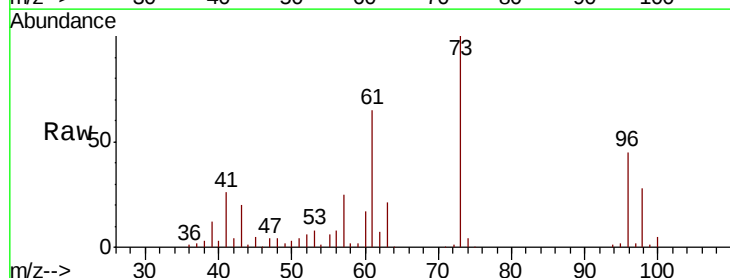
MMDadoda
 10/3/2018 5:27:41 PM

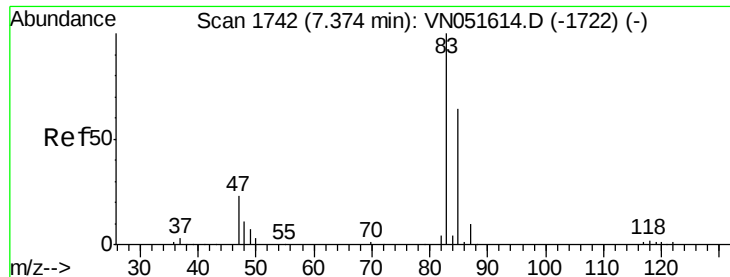


#24

Methyl tert-Butyl Ether
 Concen: 19.716 ug/l
 RT: 5.05 min Scan# 1018
 Delta R.T. -0.01 min
 Lab File: VN051616.D
 Acq: 28 Sep 2018 14:57

Tgt Ion: 73 Resp: 333755
 Ion Ratio Lower Upper
 73 100
 43 20.3 16.1 24.1





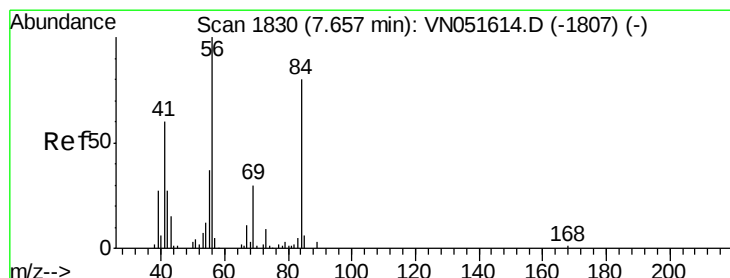
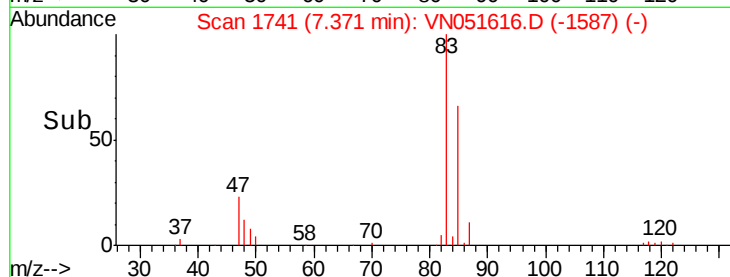
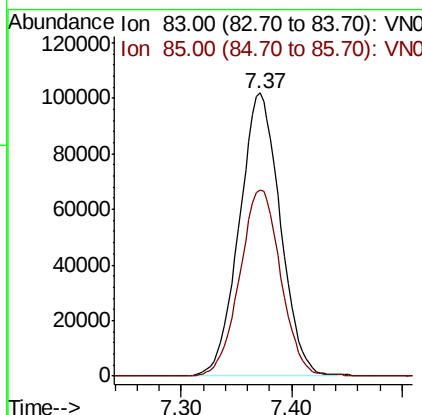
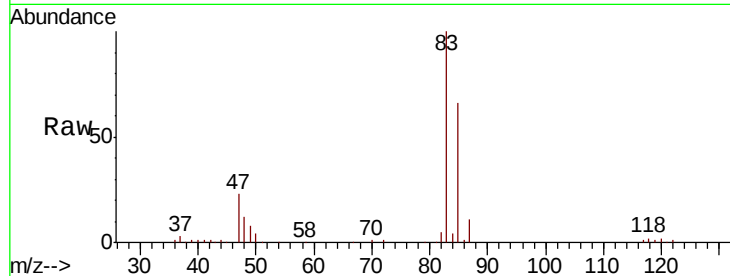
#25
Chloroform
Concen: 20.233 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN051616.D
Acq: 28 Sep 2018 14:57

Instrument :
MSVOA_N
ClientSampled :
ICVVN092818

Tot Ion	83	Resp	262086
Ion Ratio	100	Lower	Upper
83	100		
85	65.9	51.4	77.0

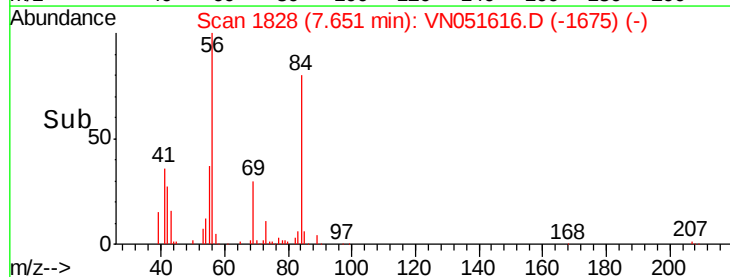
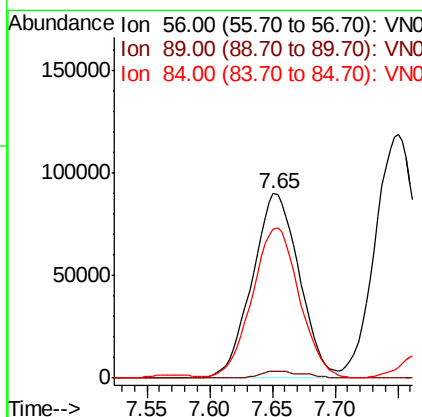
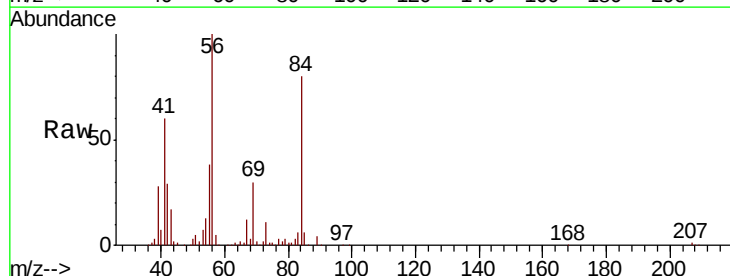
Manual Integrations
APPROVED

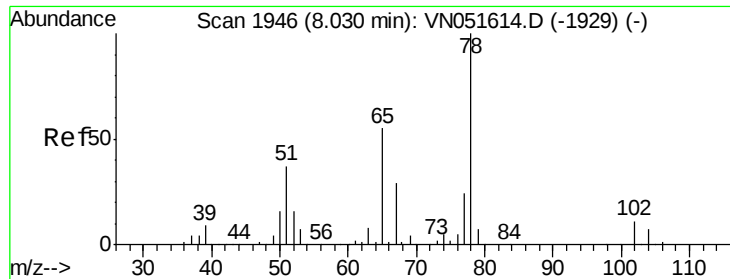
MMDadoda
10/3/2018 5:27:41 PM



#26
Cyclohexane
Concen: 20.108 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. -0.01 min
Lab File: VN051616.D
Acq: 28 Sep 2018 14:57

Tgt Ion	56	Resp	235741
Ion Ratio	100	Lower	Upper
56	100		
89	2.7	2.2	3.2
84	80.7	65.0	97.4





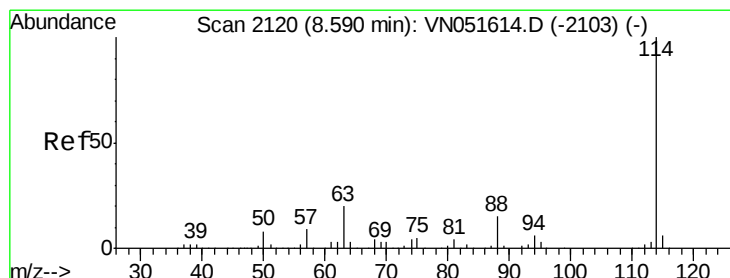
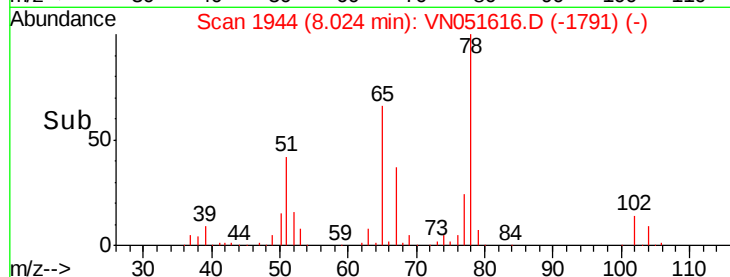
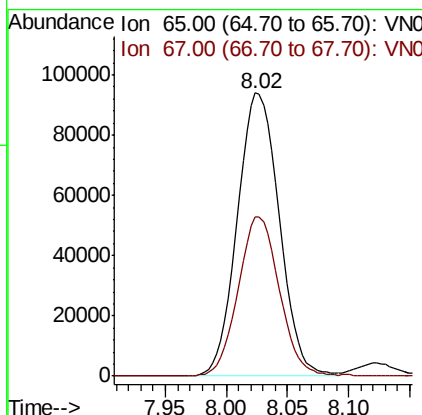
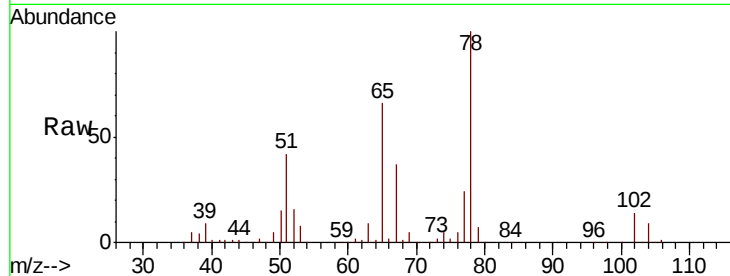
#27
 1,2-Dichloroethane-d4
 Concen: 20.108 ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. -0.01 min
 Lab File: VN051616.D
 Acq: 28 Sep 2018 14:57

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN092818

Tot Ion	Ratio	Resp	Lower	Upper
65	100	224125		
67	55.1		43.1	64.7

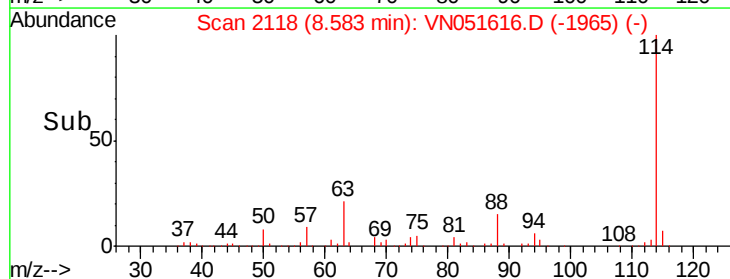
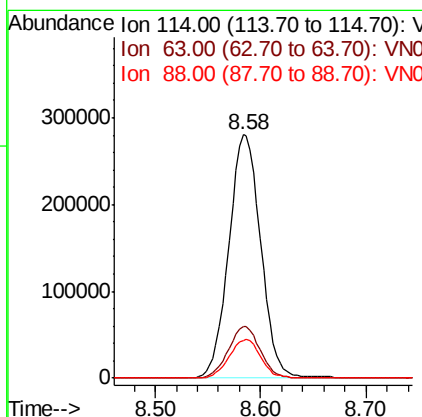
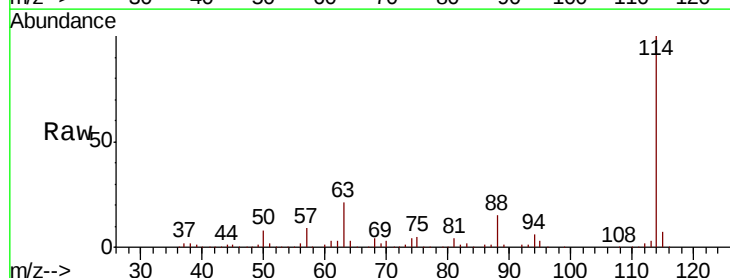
Manual Integrations
 APPROVED

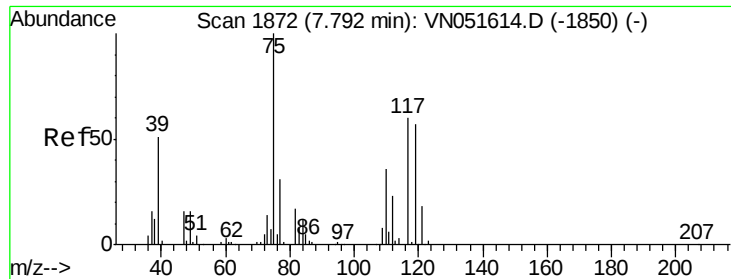
MMDadoda
 10/3/2018 5:27:41 PM



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.01 min
 Lab File: VN051616.D
 Acq: 28 Sep 2018 14:57

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	588498		
63	20.9		16.4	24.6
88	15.7		12.6	18.8





#29

1,1-Dichloropropene

Concen: 20.042 ug/l

RT: 7.79 min Scan# 1872

Delta R.T. -0.00 min

Lab File: VN051616.D

Acq: 28 Sep 2018 14:57

Instrument :

MSVOA_N

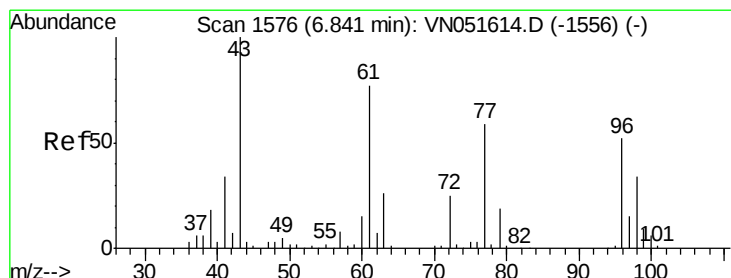
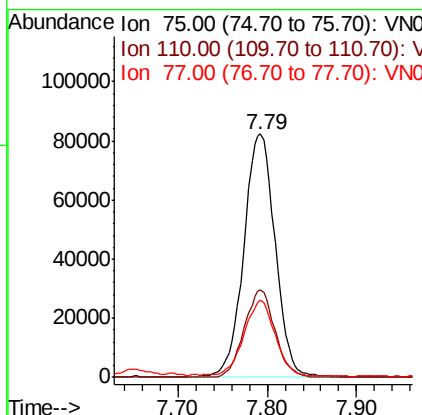
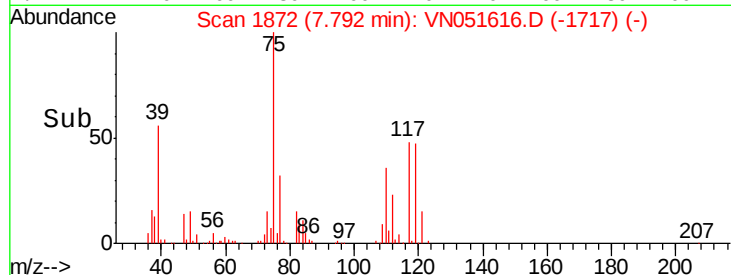
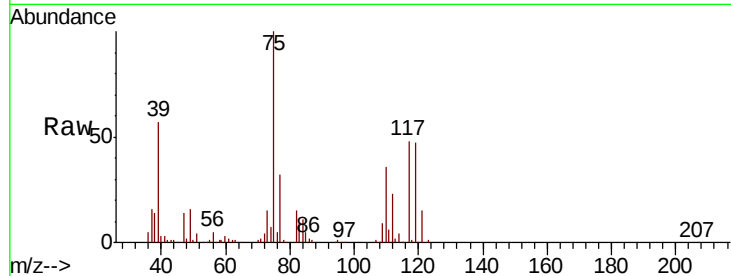
ClientSampled :

ICVVN092818

Tot Ion:	75	Resp:	201127
Ion Ratio	Lower	Upper	
75	100		
110	35.1	0.0	71.0
77	30.6	0.0	62.4

Manual Integrations
APPROVED

MMDadoda
10/3/2018 5:27:41 PM



#30

2-Butanone

Concen: 97.112 ug/l

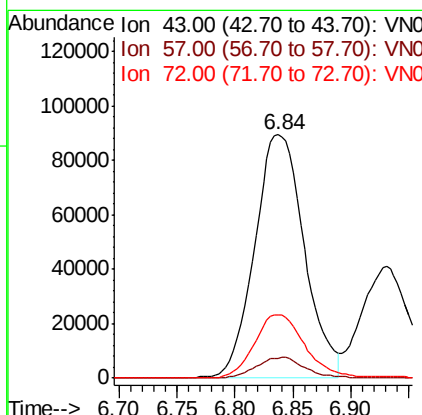
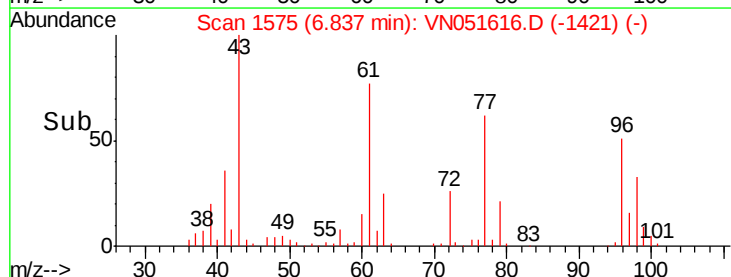
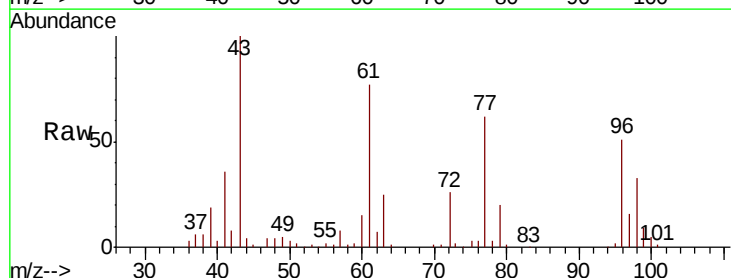
RT: 6.84 min Scan# 1575

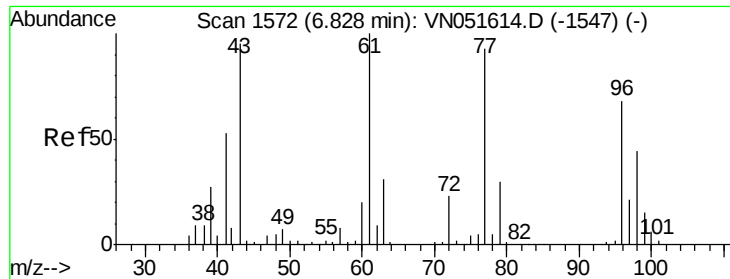
Delta R.T. -0.00 min

Lab File: VN051616.D

Acq: 28 Sep 2018 14:57

Tgt Ion:	43	Resp:	265231
Ion Ratio	Lower	Upper	
43	100		
57	8.4	6.6	10.0
72	26.8	20.8	31.2





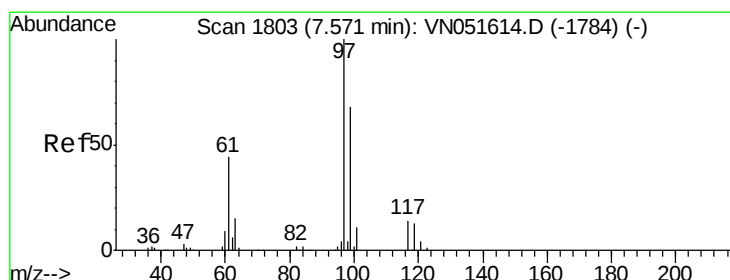
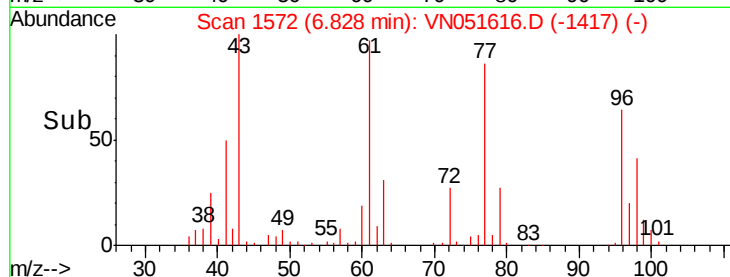
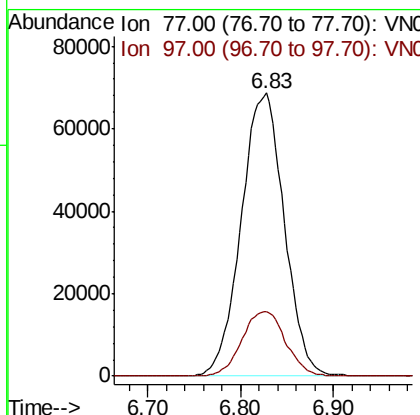
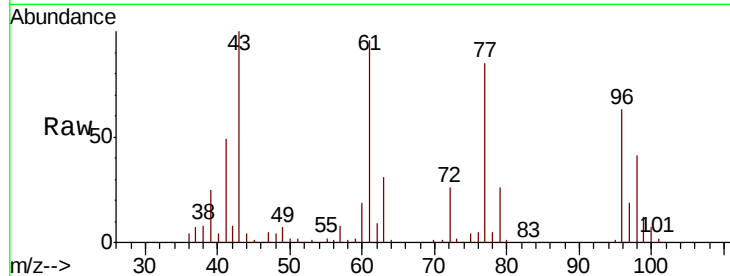
#31
 2,2-Dichloropropane
 Concen: 20.385 ug/l
 RT: 6.83 min Scan# 1572
 Delta R.T. -0.00 min
 Lab File: VN051616.D
 Acq: 28 Sep 2018 14:57

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN092818

Tot Ion: 77 Resp: 220783
 Ion Ratio Lower Upper
 77 100
 97 23.2 18.6 28.0

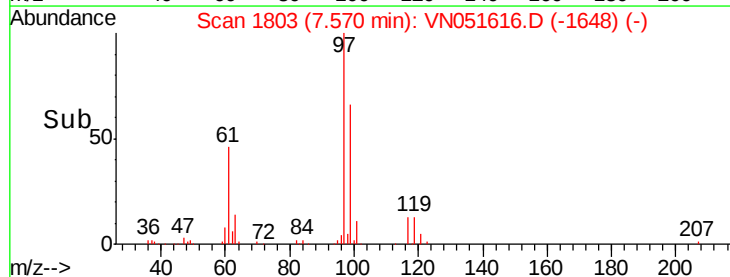
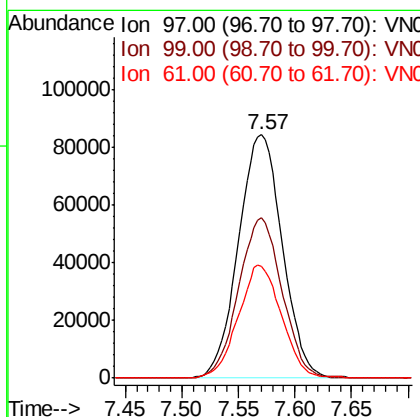
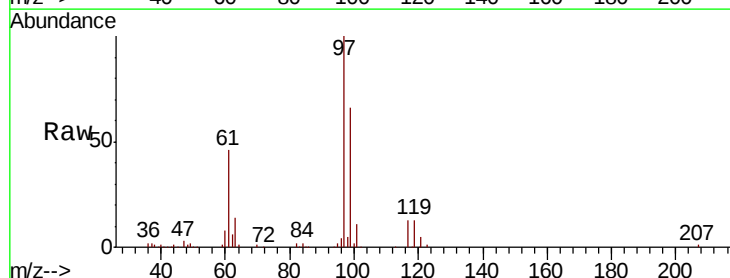
Manual Integrations
 APPROVED

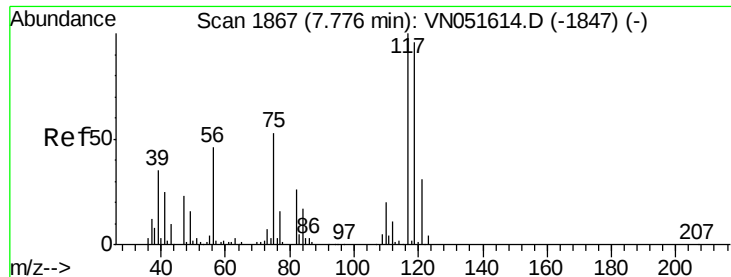
MMDadoda
 10/3/2018 5:27:41 PM



#32
 1,1,1-Trichloroethane
 Concen: 20.162 ug/l
 RT: 7.57 min Scan# 1803
 Delta R.T. -0.00 min
 Lab File: VN051616.D
 Acq: 28 Sep 2018 14:57

Tgt Ion: 97 Resp: 227329
 Ion Ratio Lower Upper
 97 100
 99 65.2 52.2 78.4
 61 45.7 36.2 54.4





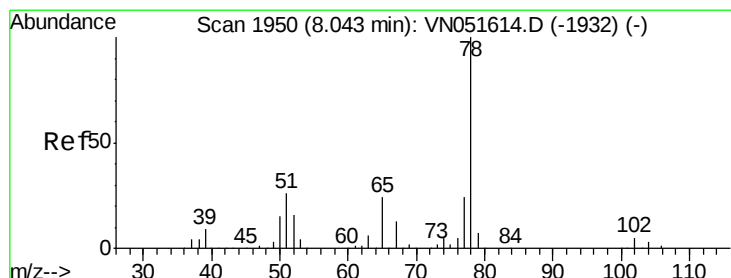
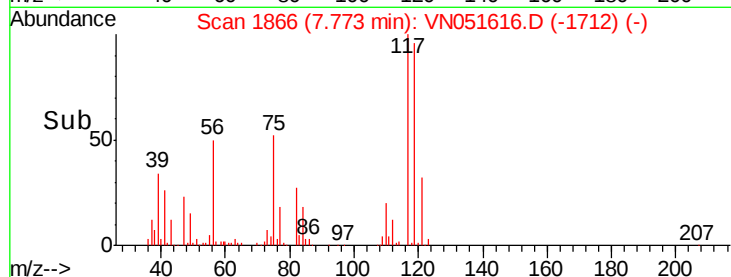
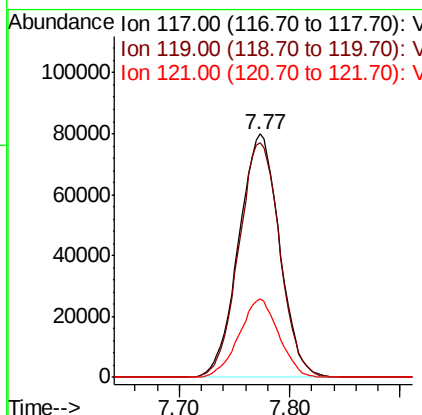
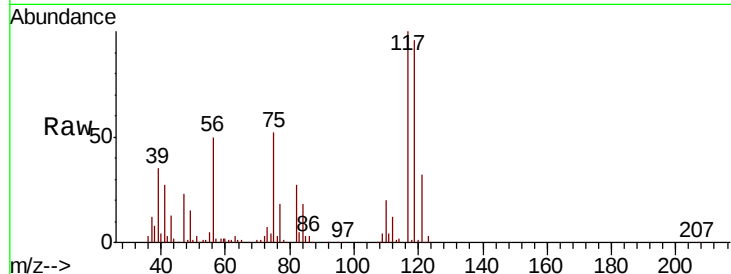
#33
Carbon Tetrachloride
Concen: 20.166 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN051616.D
Acq: 28 Sep 2018 14:57

Instrument :
MSVOA_N
ClientSampled :
ICVVN092818

Tot Ion	Ratio	Lower	Upper
117	100		
119	96.1	76.5	114.7
121	32.0	25.0	37.6

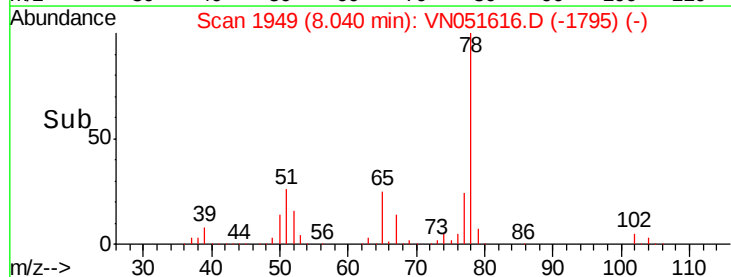
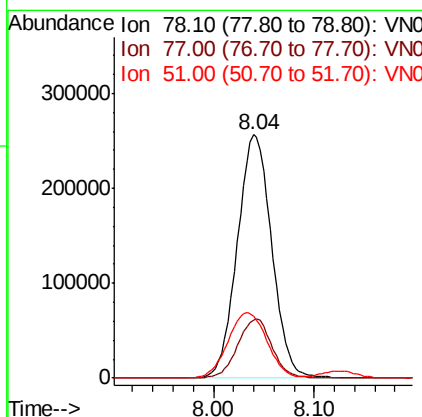
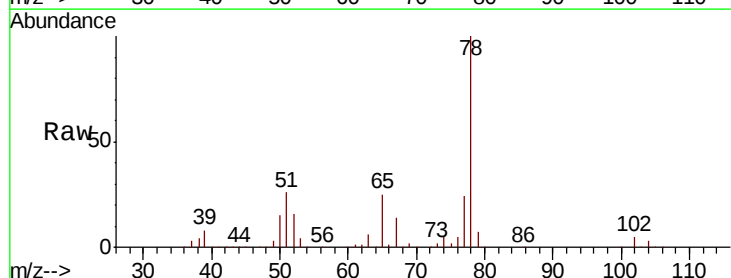
Manual Integrations
APPROVED

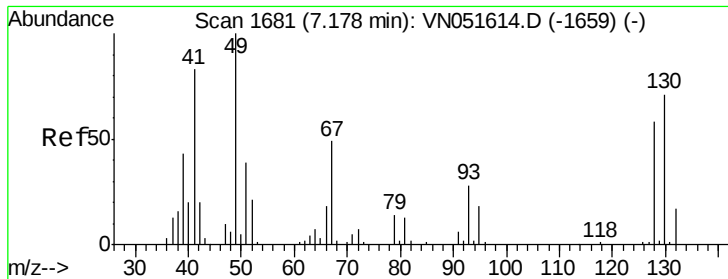
MMDadoda
10/3/2018 5:27:41 PM



#34
Benzene
Concen: 20.346 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN051616.D
Acq: 28 Sep 2018 14:57

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.8	19.3	28.9
51	25.4	20.8	31.2





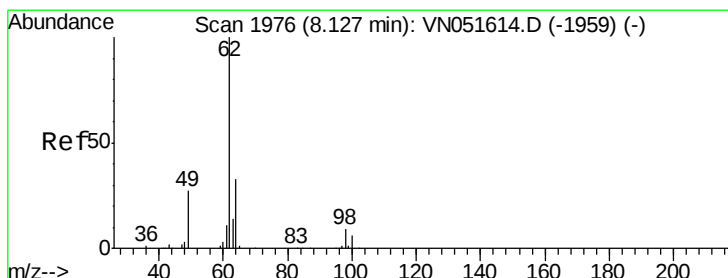
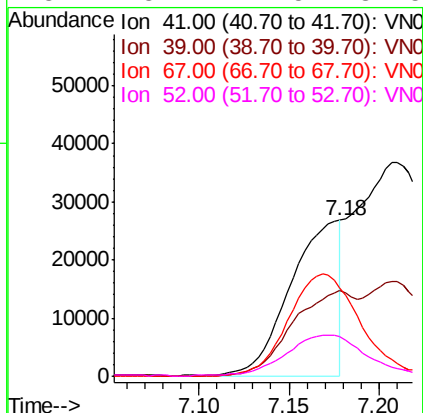
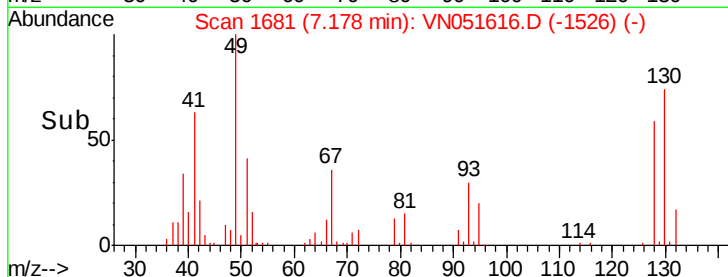
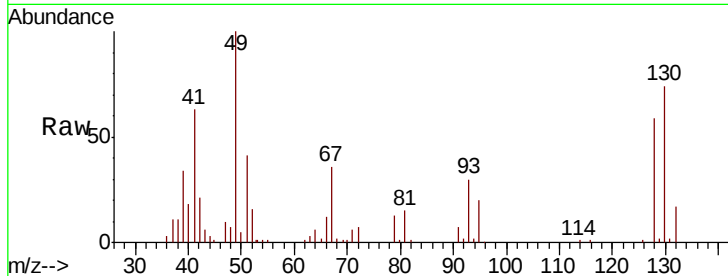
#35
Methacrylonitrile
Concen: 16.835 ug/l m
RT: 7.18 min Scan# 1681
Delta R.T. -0.00 min
Lab File: VN051616.D
Acq: 28 Sep 2018 14:57

Instrument :
MSVOA_N
ClientSampleId :
ICVVN092818

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	54.7	25.6	76.8	
67	56.8	29.4	88.2	
52	25.2	12.5	37.5	

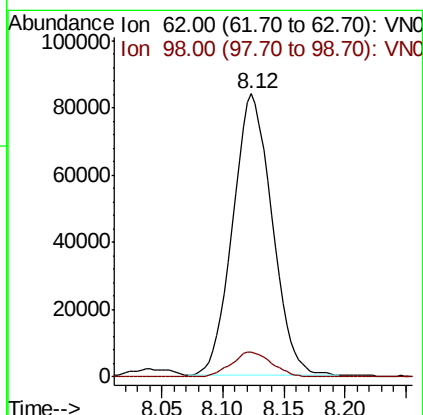
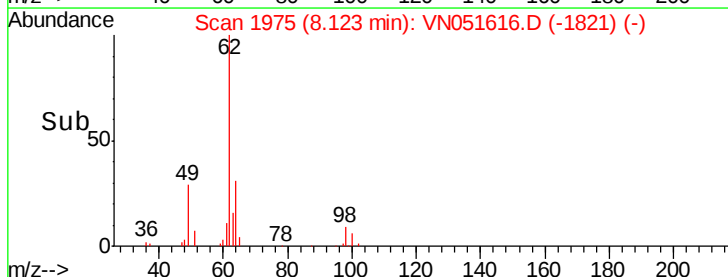
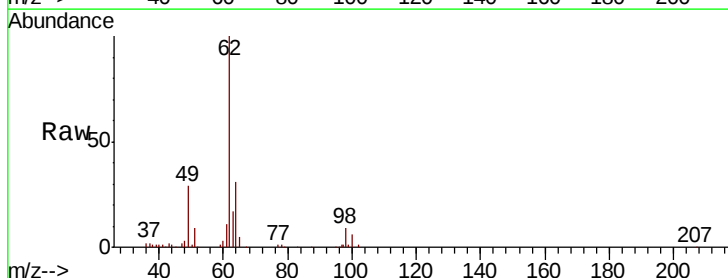
Manual Integrations
APPROVED

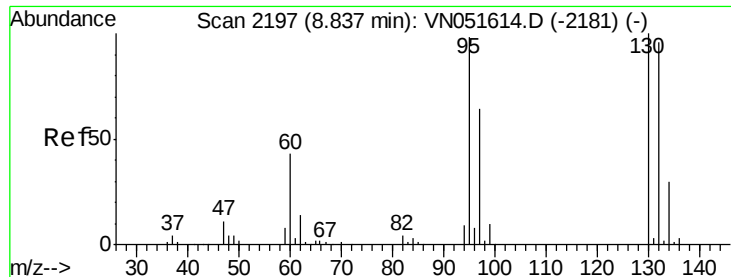
MMDadoda
10/3/2018 5:27:41 PM



#36
1,2-Dichloroethane
Concen: 19.684 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN051616.D
Acq: 28 Sep 2018 14:57

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	9.1	7.4	11.2	





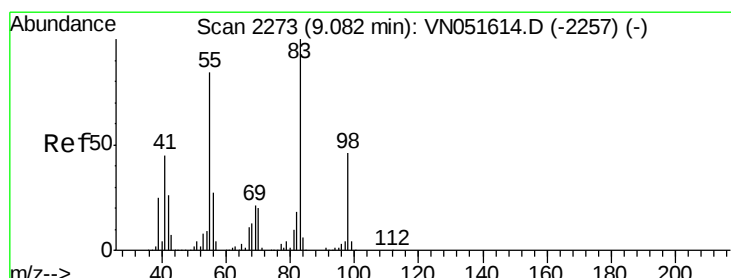
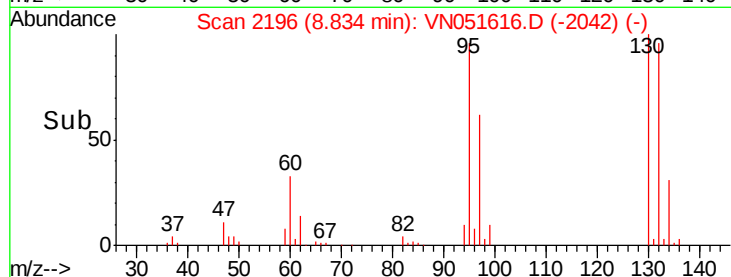
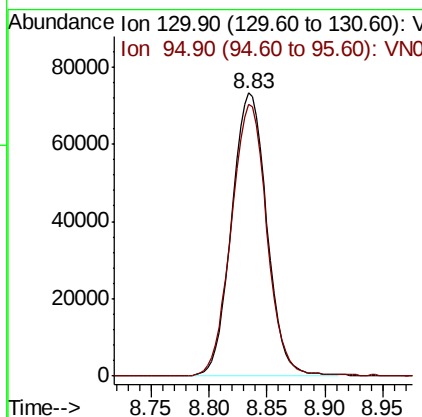
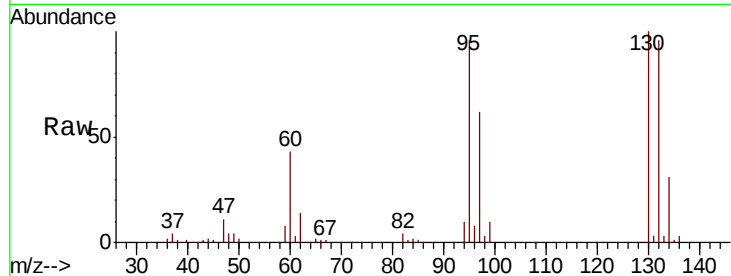
#37
 Trichloroethene
 Concen: 20.150 ug/l
 RT: 8.83 min Scan# 2196
 Delta R.T. -0.00 min
 Lab File: VN051616.D
 Acq: 28 Sep 2018 14:57

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN092818

Tot Ion	Ion	Ratio	Resp	Lower	Upper
130	100		154026		
95	96.2	78.4	117.6		

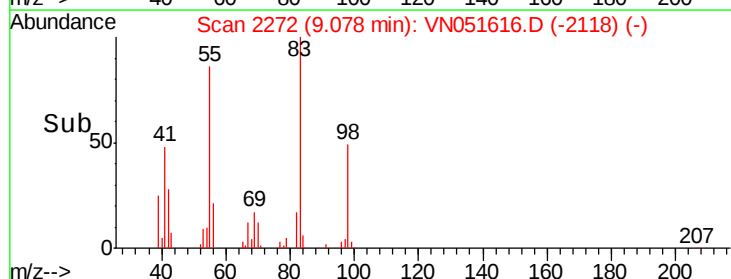
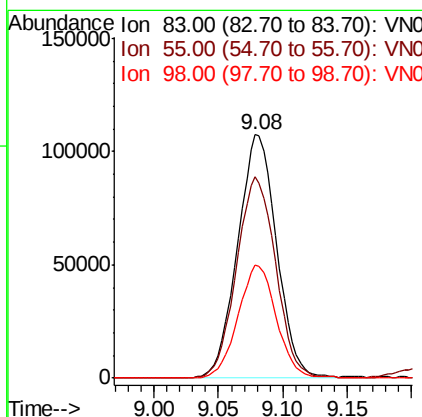
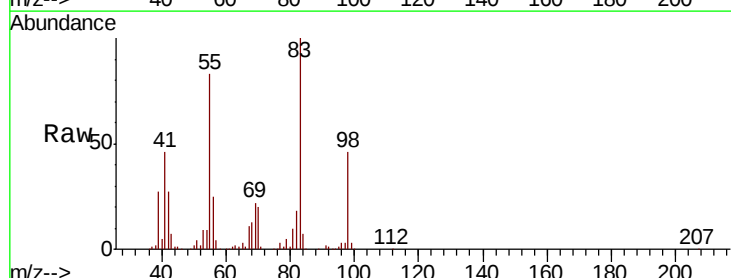
Manual Integrations
 APPROVED

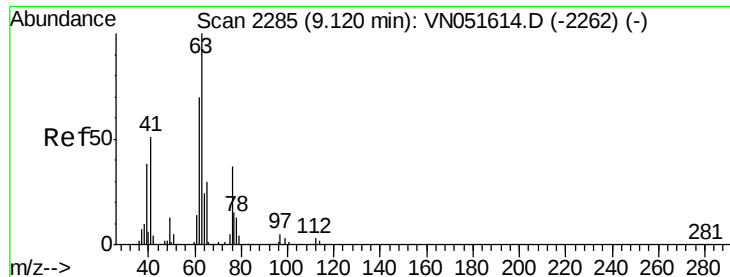
MMDadoda
 10/3/2018 5:27:41 PM



#38
 Methylcyclohexane
 Concen: 19.575 ug/l
 RT: 9.08 min Scan# 2272
 Delta R.T. -0.00 min
 Lab File: VN051616.D
 Acq: 28 Sep 2018 14:57

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
83	100		226670		
55	83.1	41.6	124.9		
98	45.4	23.1	69.2		





#39

1,2-Dichloropropane

Concen: 20.382 ug/l

RT: 9.12 min Scan# 2284

Delta R.T. -0.00 min

Lab File: VN051616.D

Acq: 28 Sep 2018 14:57

Instrument :

MSVOA_N

ClientSampled :

ICVVN092818

Tot Ion: 63 Resp: 166275

Ion Ratio Lower Upper

63 100

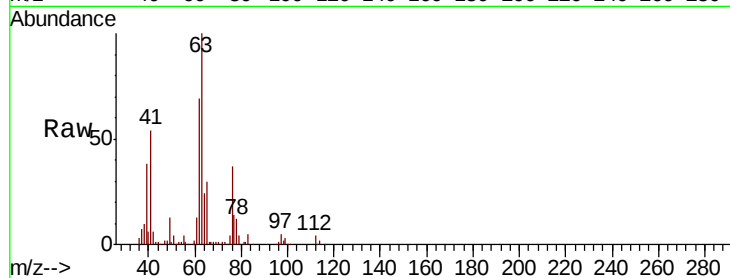
65 29.5 24.4 36.6

Manual Integrations

APPROVED

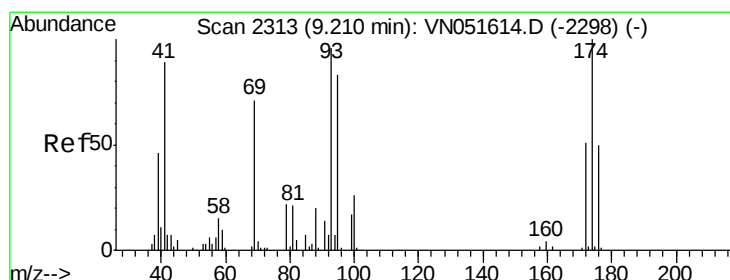
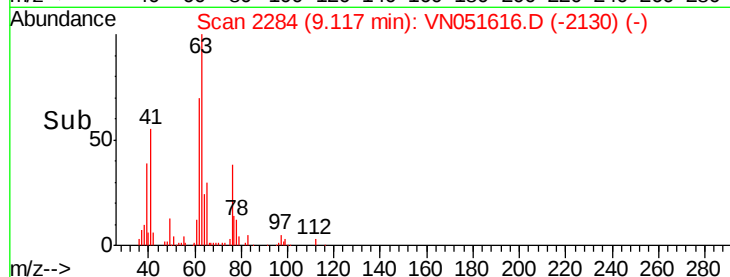
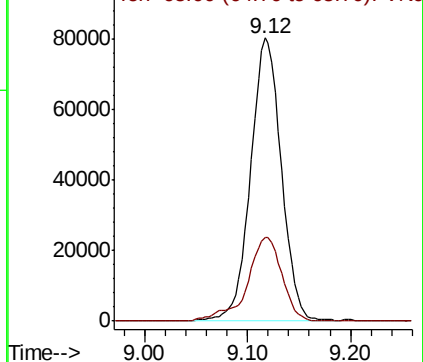
MMDadoda

10/3/2018 5:27:41 PM



Abundance Ion 63.00 (62.70 to 63.70): VN0

Ion 65.00 (64.70 to 65.70): VN0



#40

Dibromomethane

Concen: 20.143 ug/l

RT: 9.21 min Scan# 2312

Delta R.T. -0.00 min

Lab File: VN051616.D

Acq: 28 Sep 2018 14:57

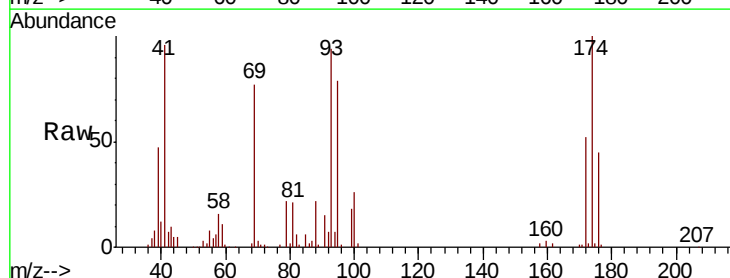
Tgt Ion: 93 Resp: 91284

Ion Ratio Lower Upper

93 100

95 82.6 0.0 171.0

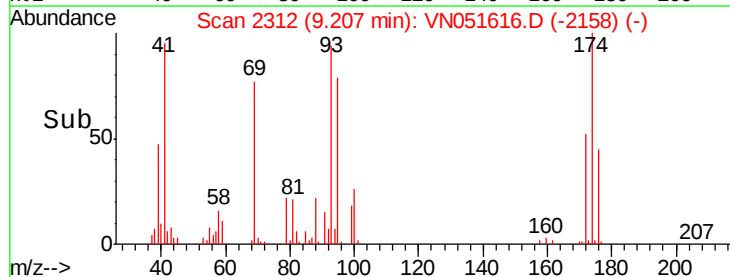
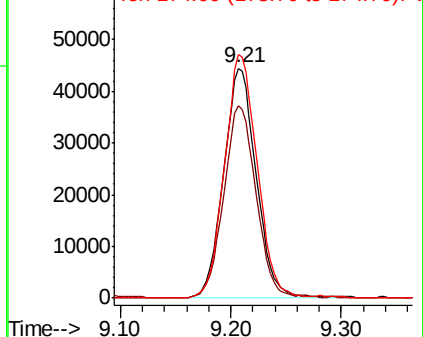
174 105.8 0.0 212.0

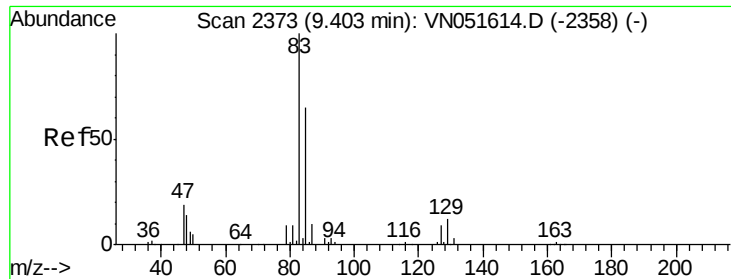


Abundance Ion 93.00 (92.70 to 93.70): VN0

Ion 95.00 (94.70 to 95.70): VN0

Ion 174.00 (173.70 to 174.70): V





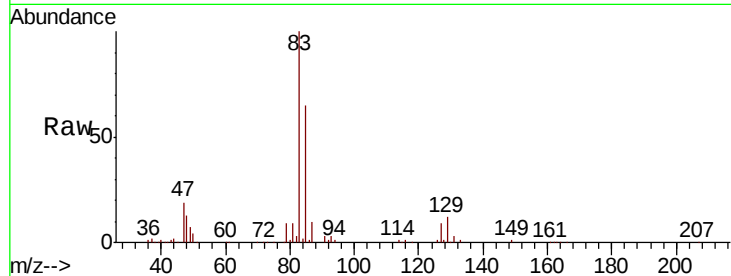
#41
Bromodichloromethane
Concen: 19.978 ug/l
RT: 9.40 min Scan# 2372
Delta R.T. -0.00 min
Lab File: VN051616.D
Acq: 28 Sep 2018 14:57

Instrument :
MSVOA_N
ClientSampleId :
ICVVN092818

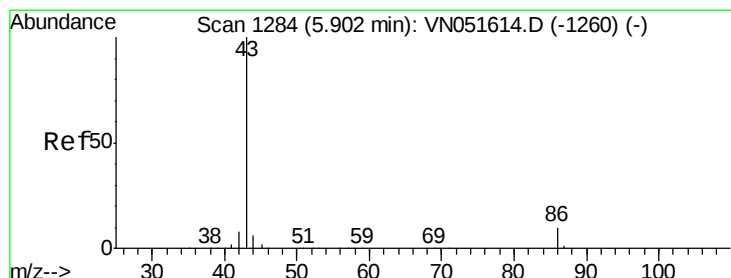
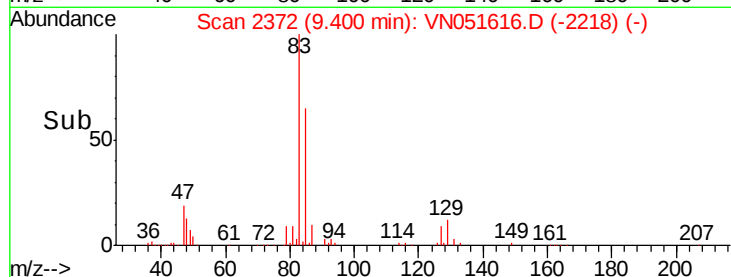
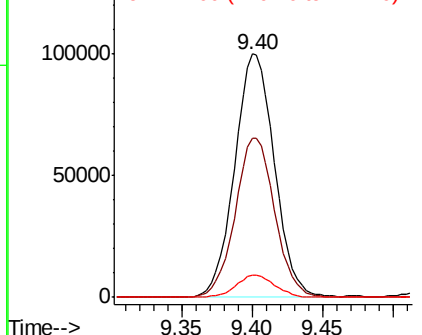
Tot Ion	83	Resp	197621
Ion Ratio	100	Lower	Upper
83	100		
85	65.2	52.1	78.1
127	9.2	7.1	10.7

Manual Integrations
APPROVED

MMDadoda
10/3/2018 5:27:41 PM

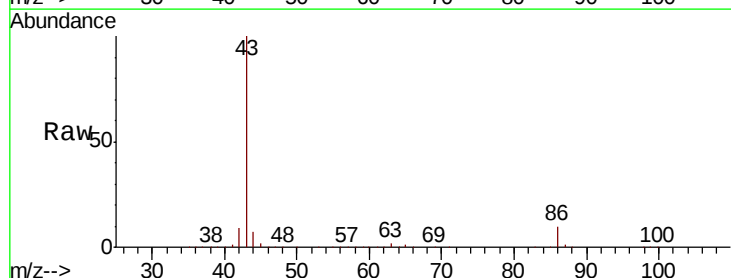


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 85.00 (84.70 to 85.70): VN0
Ion 127.00 (126.70 to 127.70): VN0

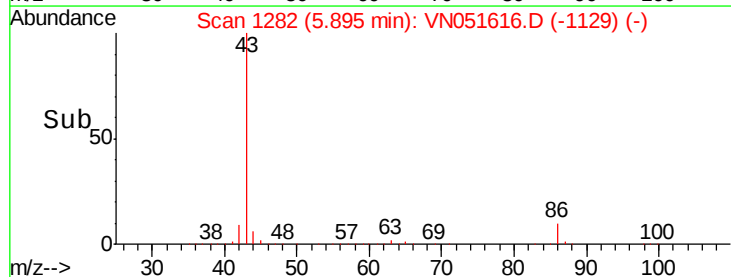
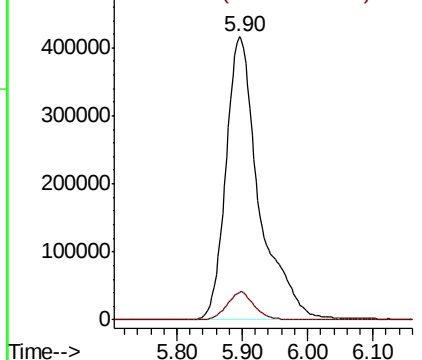


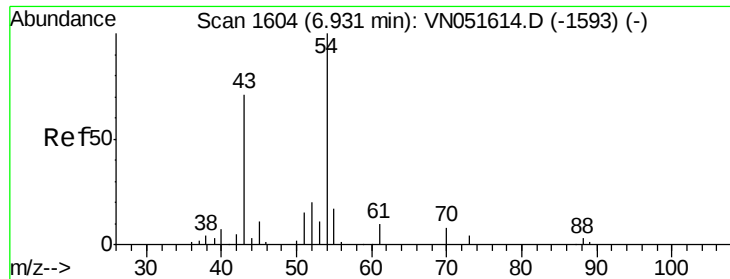
#42
Vinyl Acetate
Concen: 96.583 ug/l
RT: 5.90 min Scan# 1282
Delta R.T. -0.01 min
Lab File: VN051616.D
Acq: 28 Sep 2018 14:57

Tgt Ion	43	Resp	1468544
Ion Ratio	100	Lower	Upper
43	100		
86	8.3	6.6	9.8



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 86.00 (85.70 to 86.70): VN0





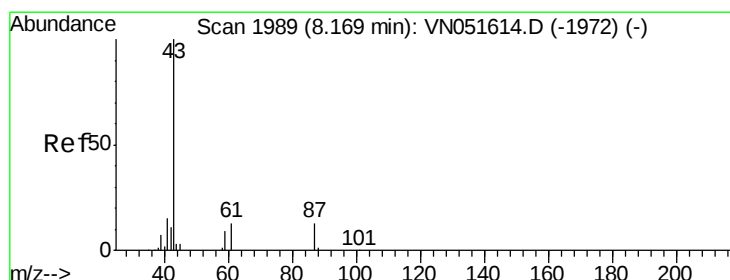
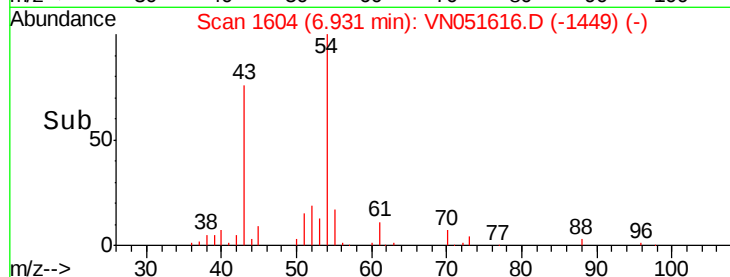
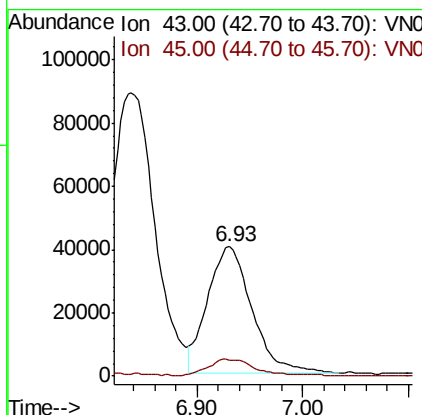
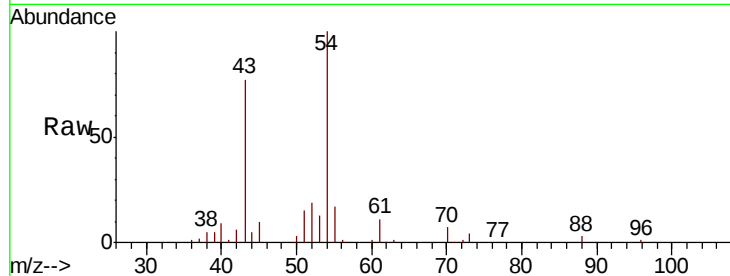
#43
Ethyl Acetate
Concen: 20.353 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. -0.00 min
Lab File: VN051616.D
Acq: 28 Sep 2018 14:57

Instrument :
MSVOA_N
ClientSampleId :
ICVVN092818

Tot Ion	43	45	Ratio	Lower	Upper
117665	100	7.1		10.6	16.0#

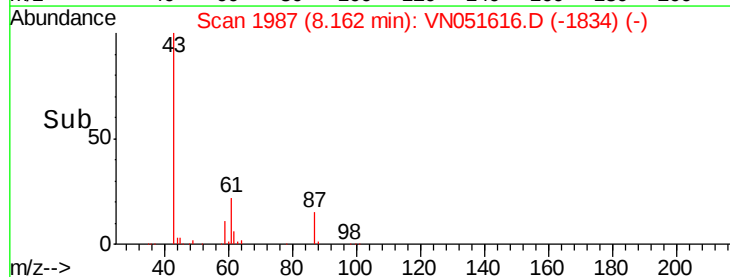
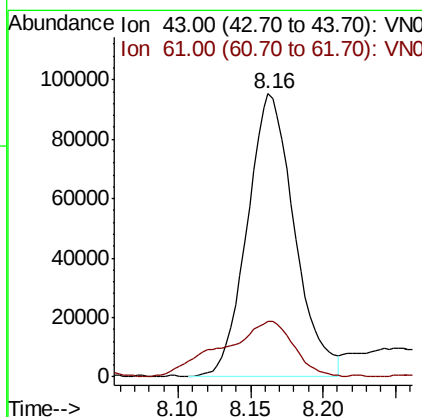
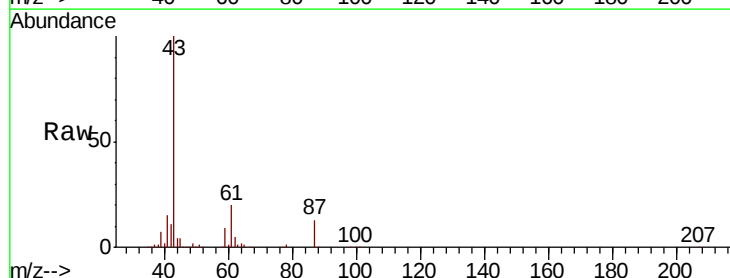
Manual Integrations
APPROVED

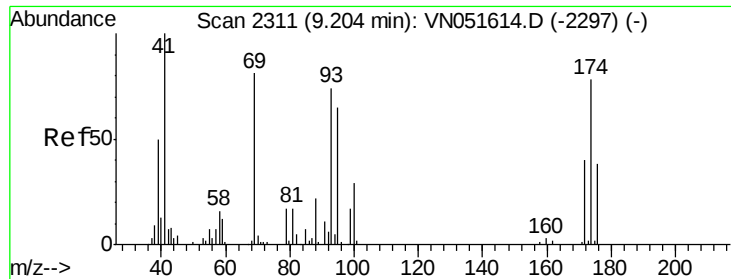
MMDadoda
10/3/2018 5:27:41 PM



#44
Isopropyl Acetate
Concen: 19.000 ug/l
RT: 8.16 min Scan# 1987
Delta R.T. -0.01 min
Lab File: VN051616.D
Acq: 28 Sep 2018 14:57

Tgt Ion	43	61	Ratio	Lower	Upper
215064	100	28.9		15.4	23.0#





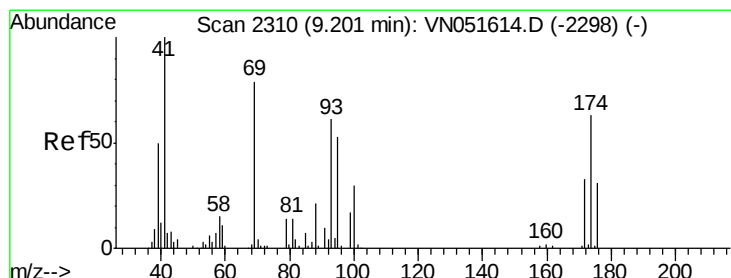
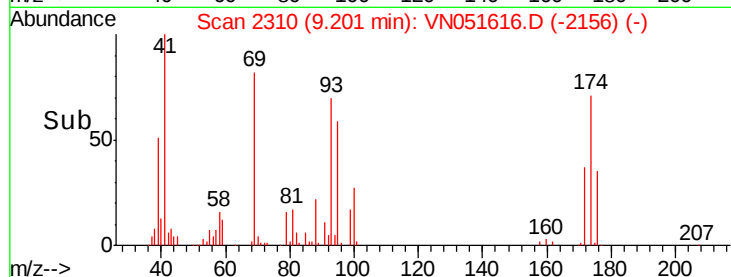
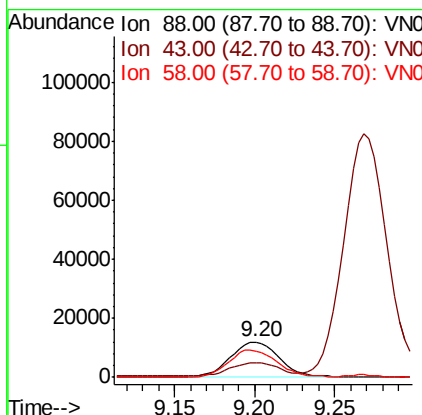
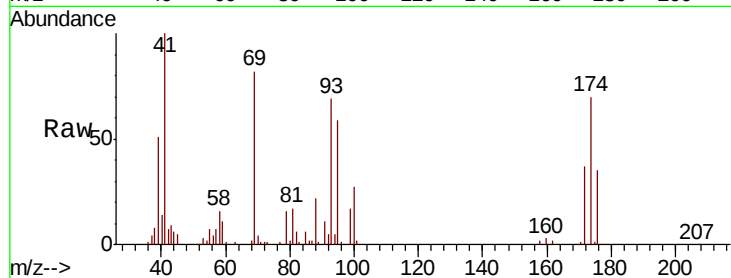
#45
1,4-Dioxane
Concen: 410.240 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. -0.00 min
Lab File: VN051616.D
Acq: 28 Sep 2018 14:57

Instrument :
MSVOA_N
ClientSampleId :
ICVVN092818

Tot Ion	Ratio	Lower	Upper
88	100		
43	38.2	29.0	43.6
58	77.1	59.0	88.6

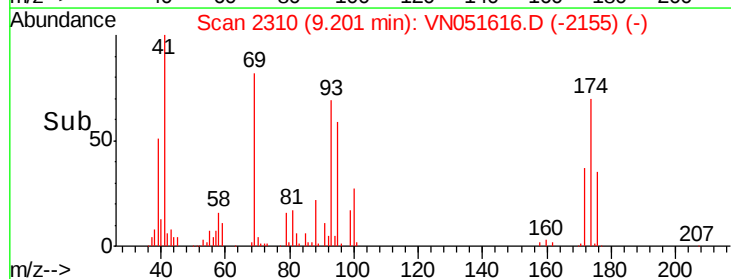
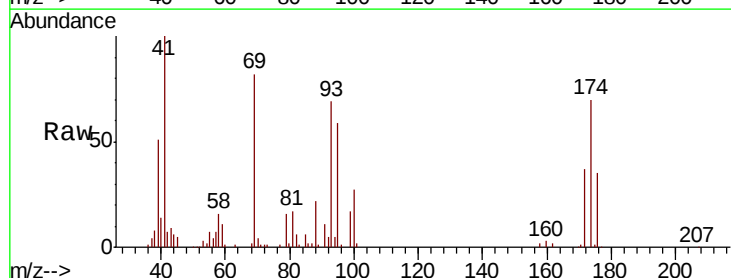
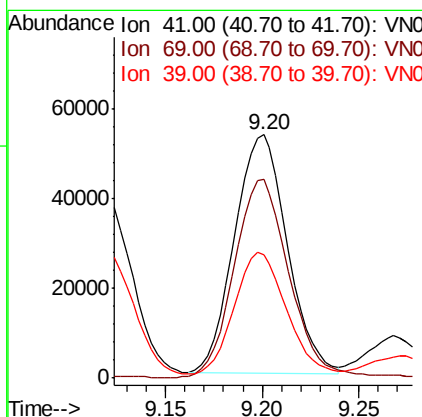
Manual Integrations
APPROVED

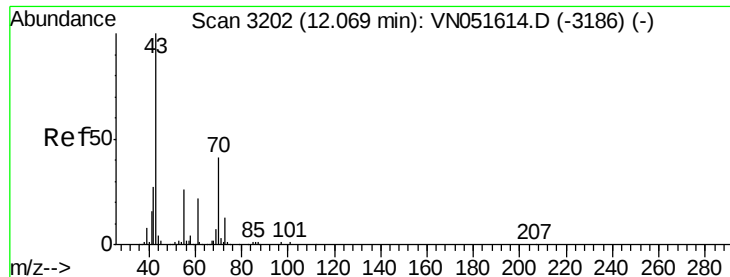
MMDadoda
10/3/2018 5:27:41 PM



#46
Methyl methacrylate
Concen: 19.174 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. -0.00 min
Lab File: VN051616.D
Acq: 28 Sep 2018 14:57

Tgt Ion	Ratio	Lower	Upper
41	100		
69	82.6	39.6	118.7
39	50.4	24.9	74.6





#47

n-amyl Acetate

Concen: 18.145 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN051616.D

Acq: 28 Sep 2018 14:57

Instrument :

MSVOA_N

ClientSampled :

ICV092818

Tot Ion: 43 Resp: 153680

Ion Ratio Lower Upper

43 100

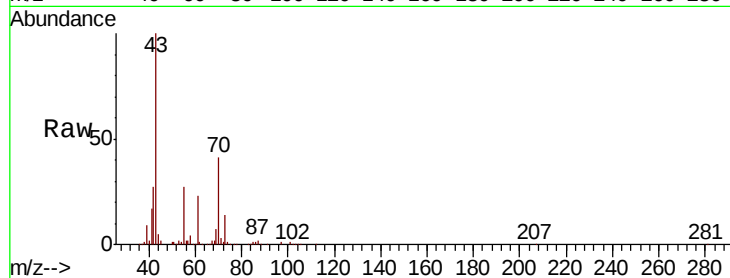
55 26.9 21.5 32.3

Manual Integrations

APPROVED

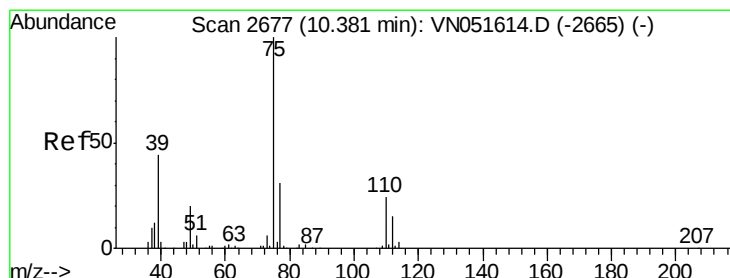
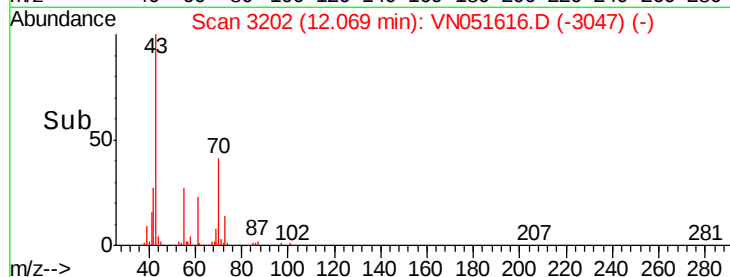
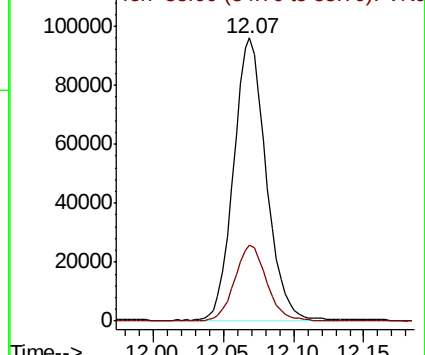
MMDadoda

10/3/2018 5:27:41 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#48

t-1,3-Dichloropropene

Concen: 18.834 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. -0.00 min

Lab File: VN051616.D

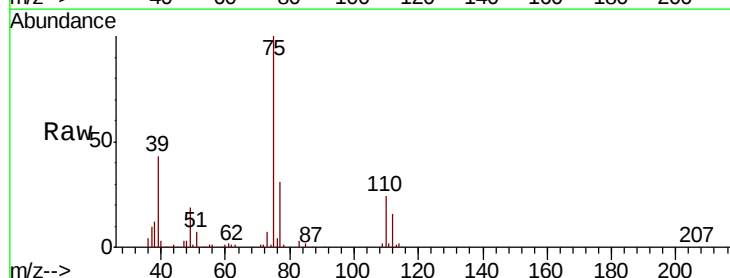
Acq: 28 Sep 2018 14:57

Tgt Ion: 75 Resp: 185951

Ion Ratio Lower Upper

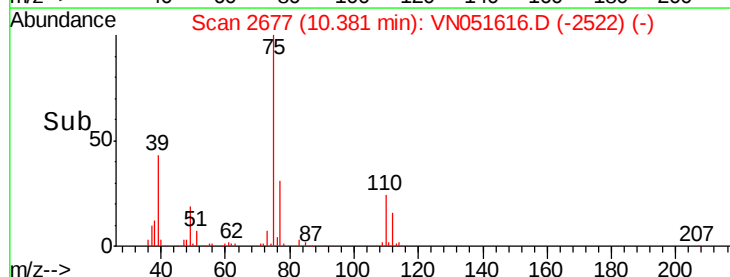
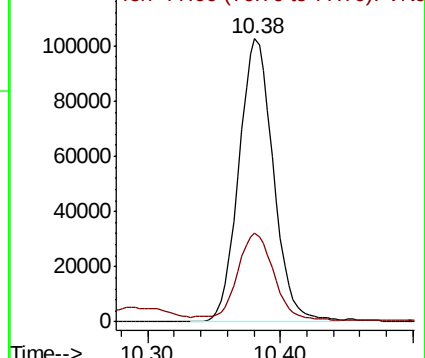
75 100

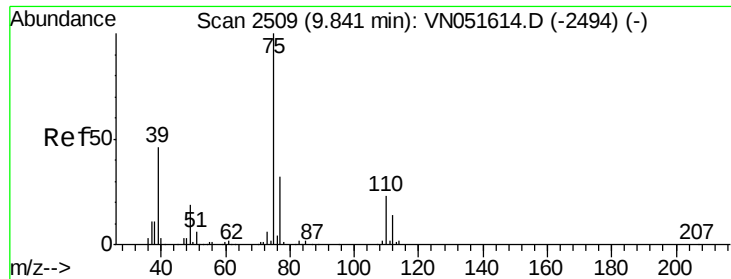
77 30.5 26.0 39.0



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0





#49

cis-1,3-Dichloropropene

Concen: 19.571 ug/l

RT: 9.84 min Scan# 2508

Delta R.T. -0.00 min

Lab File: VN051616.D

Acq: 28 Sep 2018 14:57

Instrument :

MSVOA_N

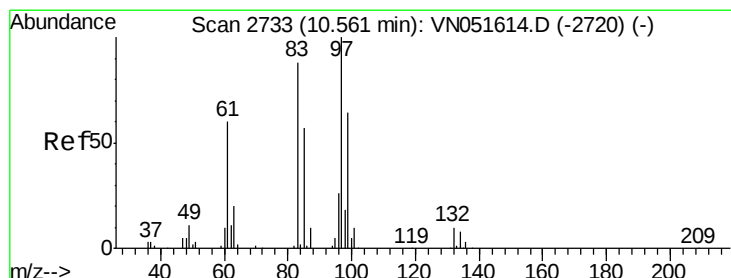
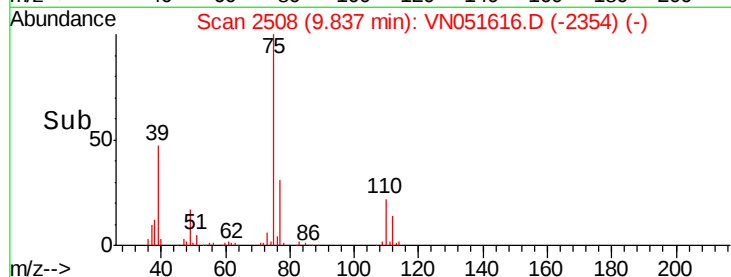
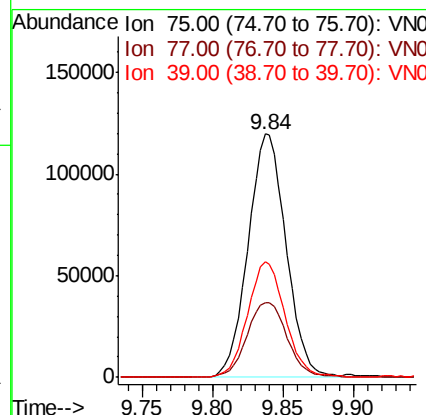
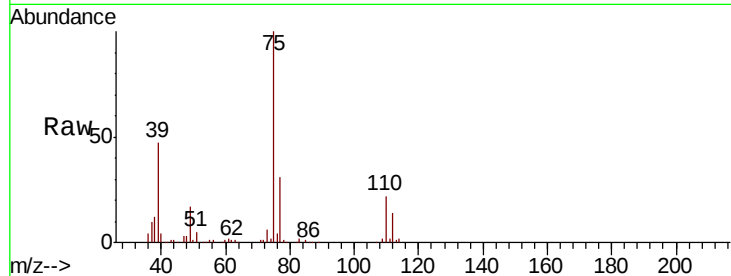
ClientSampleId :

ICVVN092818

Tot Ion:	75	Resp:	225903
Ion Ratio	Lower	Upper	
75	100		
77	30.5	25.4	38.0
39	47.2	36.6	55.0

Manual Integrations
APPROVED

MMDadoda
10/3/2018 5:27:41 PM



#50

1,1,2-Trichloroethane

Concen: 19.918 ug/l

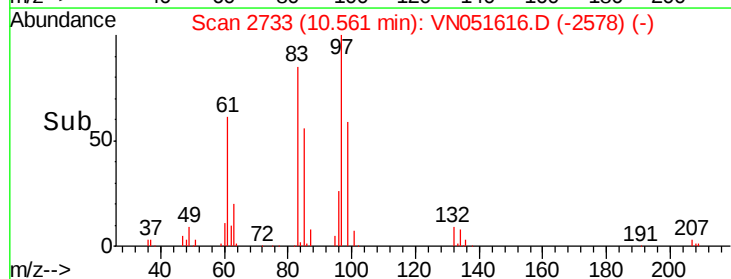
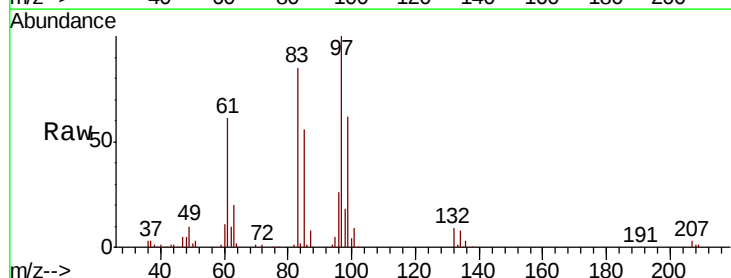
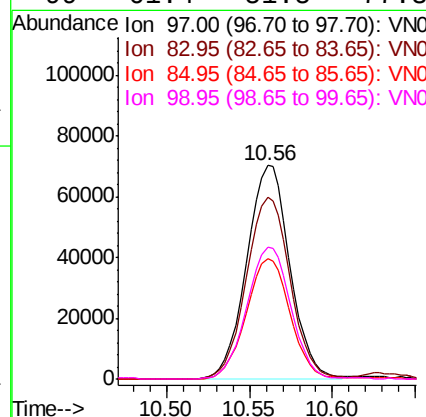
RT: 10.56 min Scan# 2733

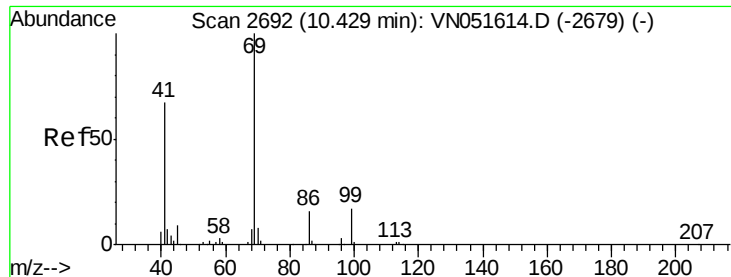
Delta R.T. -0.00 min

Lab File: VN051616.D

Acq: 28 Sep 2018 14:57

Tgt Ion:	97	Resp:	127558
Ion Ratio	Lower	Upper	
97	100		
83	84.9	70.2	105.2
85	56.3	45.6	68.4
99	61.4	51.5	77.3





#51

Ethyl methacrylate

Concen: 18.590 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. -0.00 min

Lab File: VN051616.D

Acq: 28 Sep 2018 14:57

Instrument :

MSVOA_N

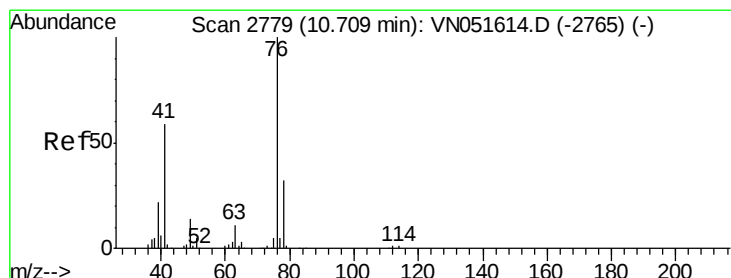
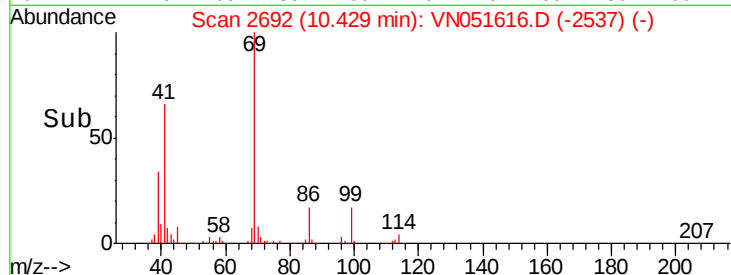
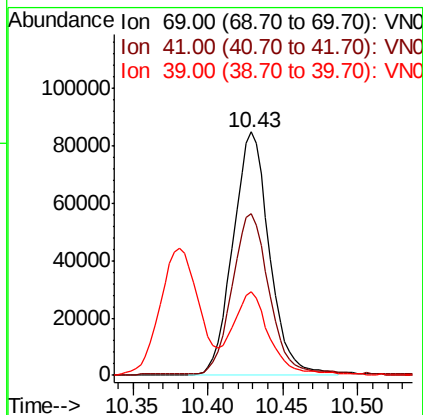
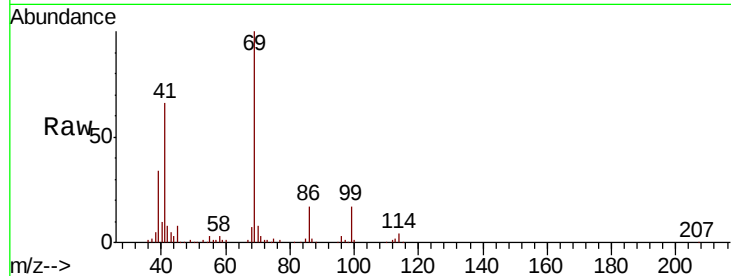
ClientSampleId :

ICVVN092818

Tot Ion:	69	Resp:	144451
Ion	Ratio	Lower	Upper
69	100		
41	65.7	33.3	99.8
39	33.2	17.2	51.6

Manual Integrations
APPROVED

MMDadoda
10/3/2018 5:27:41 PM



#52

1,3-Dichloropropane

Concen: 19.755 ug/l

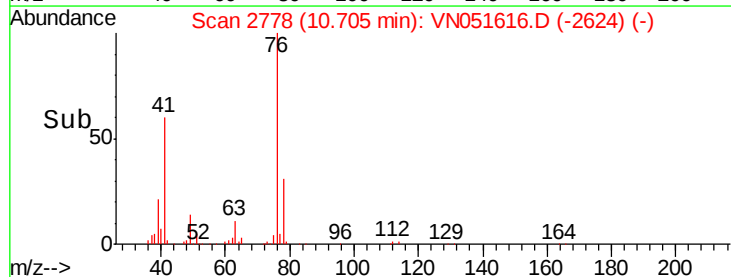
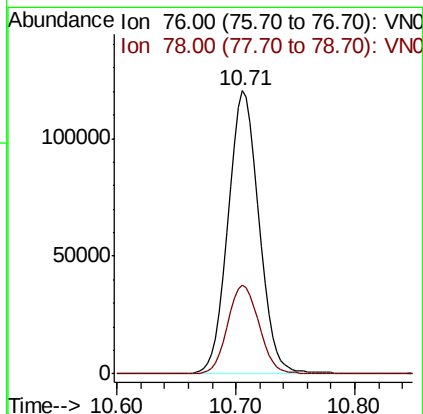
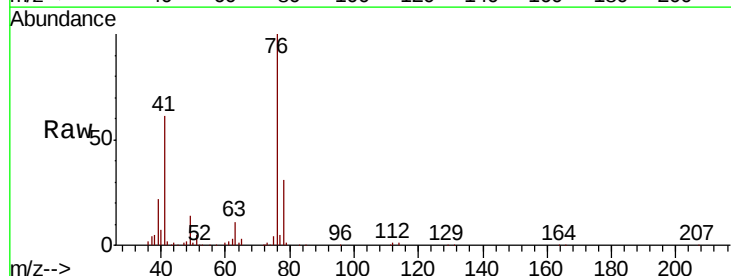
RT: 10.71 min Scan# 2778

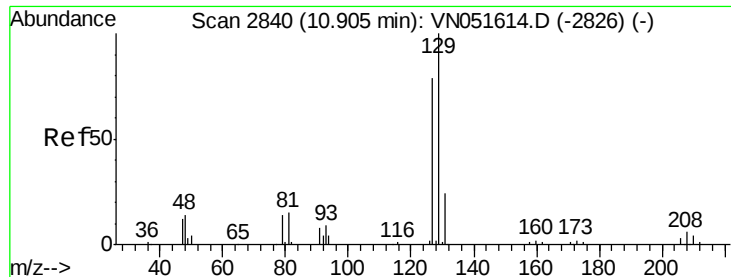
Delta R.T. -0.00 min

Lab File: VN051616.D

Acq: 28 Sep 2018 14:57

Tgt Ion:	76	Resp:	216922
Ion	Ratio	Lower	Upper
76	100		
78	31.8	0.0	63.4





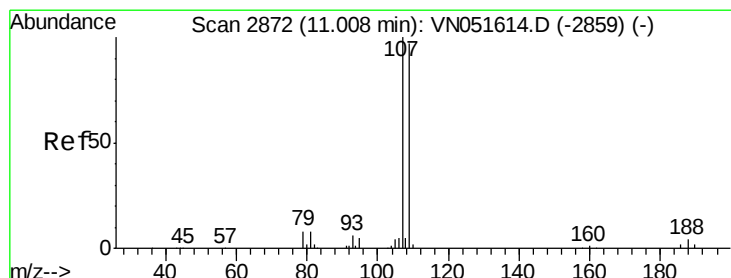
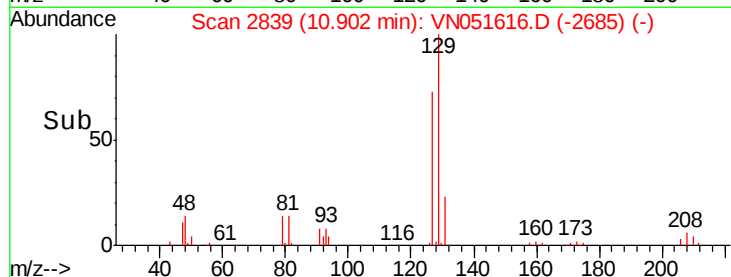
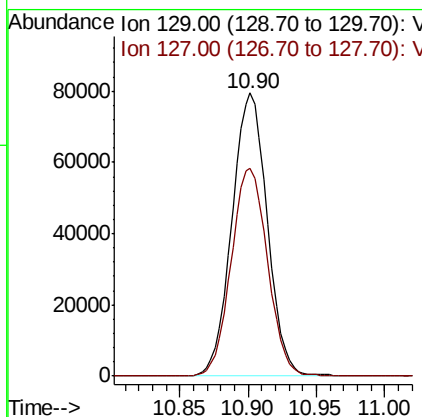
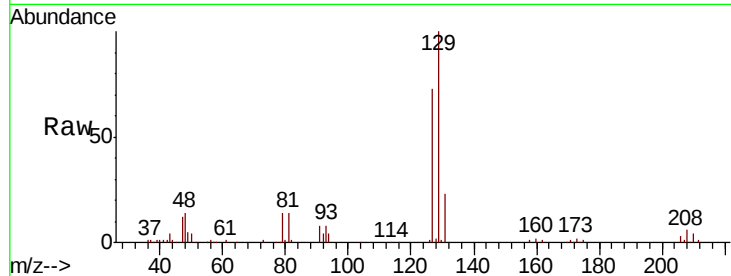
#53
 Dibromochloromethane
 Concen: 19.598 ug/l
 RT: 10.90 min Scan# 2839
 Delta R.T. -0.00 min
 Lab File: VN051616.D
 Acq: 28 Sep 2018 14:57

Instrument :
 MSVOA_N
 ClientSampled :
 ICVVN092818

Tot Ion	Ratio	Lower	Upper
129	100		
127	75.6	38.9	116.7

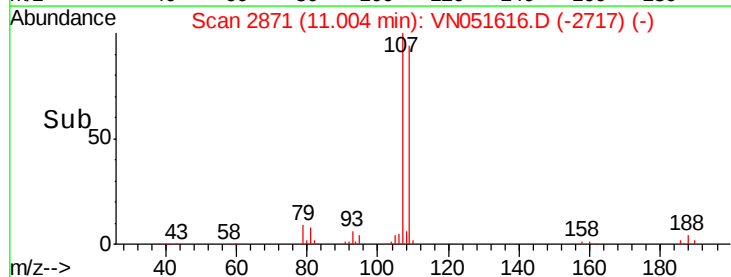
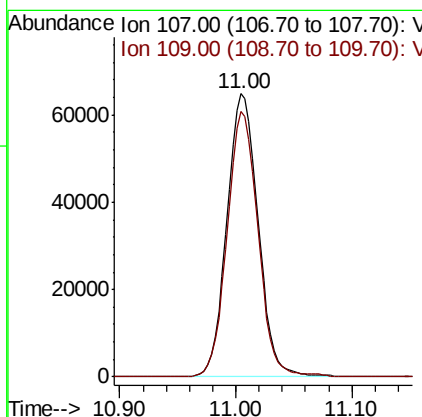
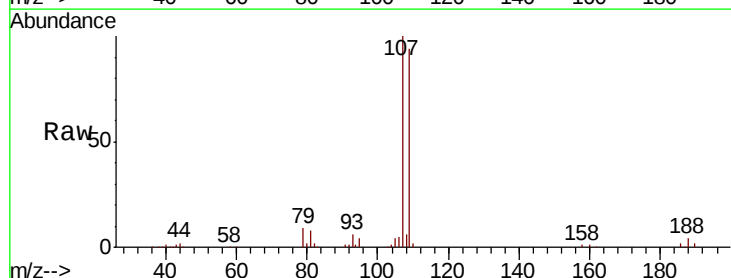
Manual Integrations
 APPROVED

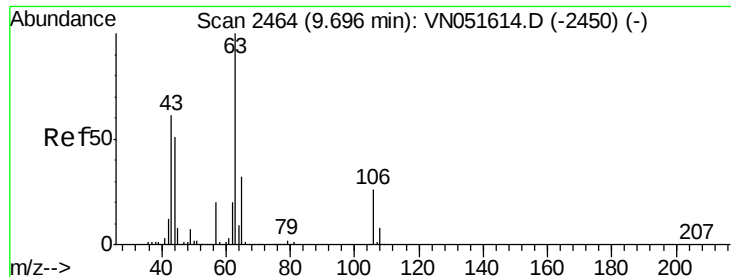
MMDadoda
 10/3/2018 5:27:41 PM



#54
 1,2-Dibromoethane
 Concen: 19.625 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. -0.00 min
 Lab File: VN051616.D
 Acq: 28 Sep 2018 14:57

Tgt Ion	Ratio	Lower	Upper
107	100		
109	92.3	76.5	114.7





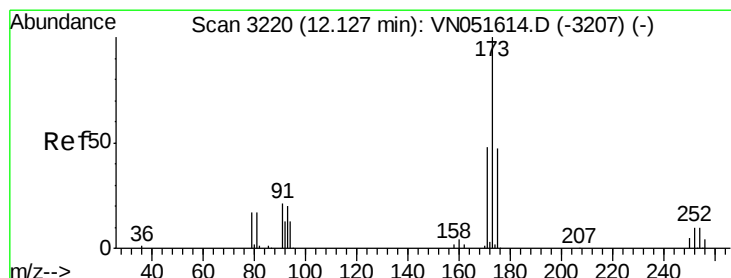
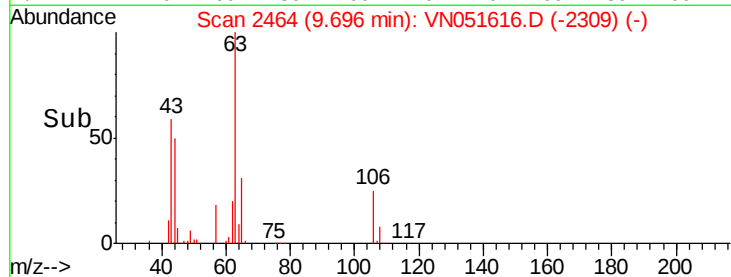
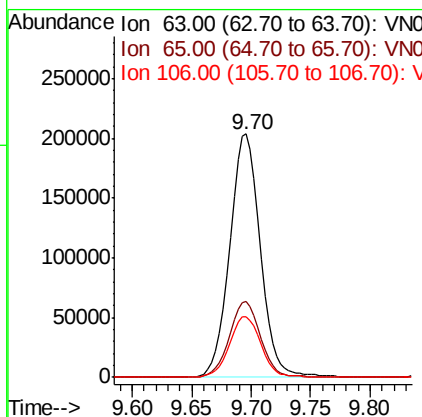
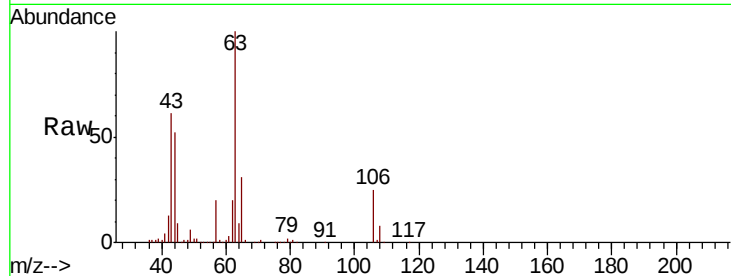
#55
2-Chloroethyl vinyl ether
Concen: 94.569 ug/l
RT: 9.70 min Scan# 2464
Delta R.T. -0.00 min
Lab File: VN051616.D
Acq: 28 Sep 2018 14:57

Instrument :
MSVOA_N
ClientSampleId :
ICVVN092818

Tot Ion:	63	Resp:	363205
Ion	Ratio	Lower	Upper
63	100		
65	31.7	25.8	38.6
106	25.7	20.4	30.6

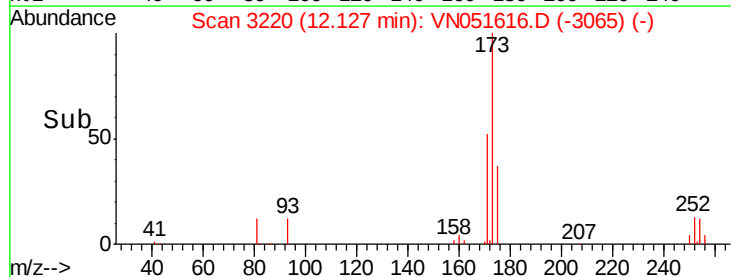
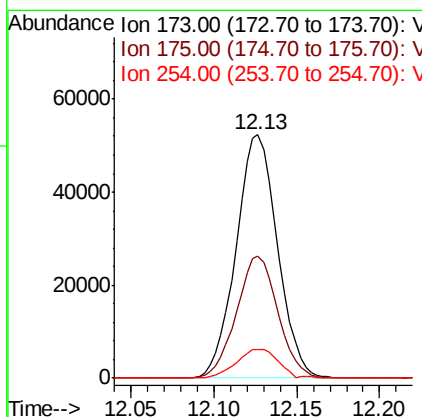
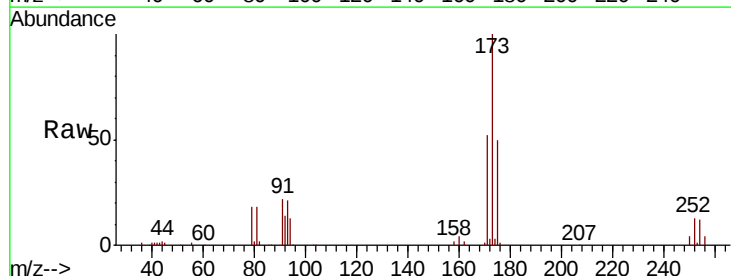
Manual Integrations
APPROVED

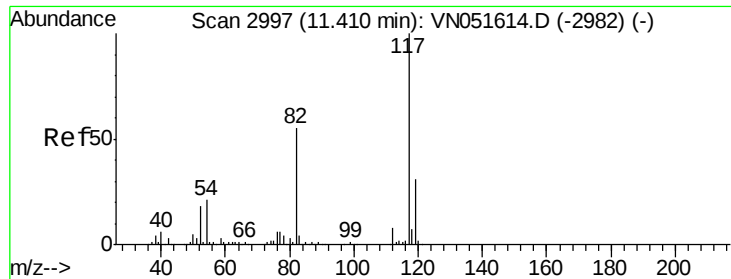
MMDadoda
10/3/2018 5:27:41 PM



#56
Bromoform
Concen: 18.769 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. -0.00 min
Lab File: VN051616.D
Acq: 28 Sep 2018 14:57

Tgt Ion:	173	Resp:	90841
Ion	Ratio	Lower	Upper
173	100		
175	50.1	39.0	58.4
254	11.8	8.7	13.1





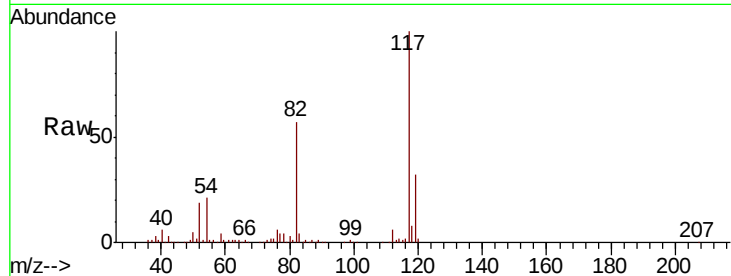
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN051616.D
Acq: 28 Sep 2018 14:57

Instrument :
MSVOA_N
ClientSampleId :
ICVVN092818

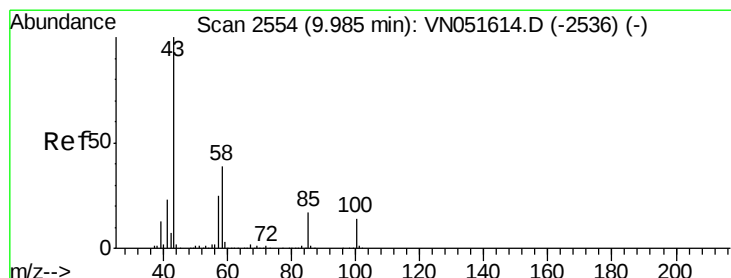
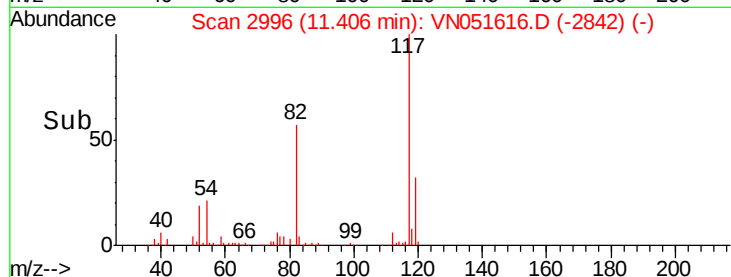
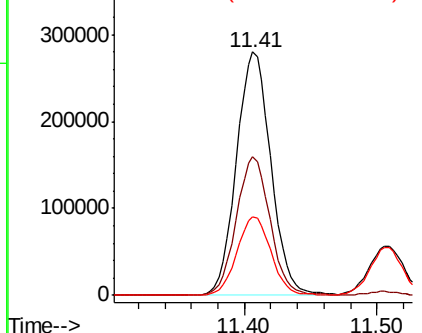
Tot Ion	Ratio	Resp	Lower	Upper
117	100	505787		
82	55.8		44.2	66.2
119	32.0		25.2	37.8

Manual Integrations
APPROVED

MMDadoda
10/3/2018 5:27:41 PM

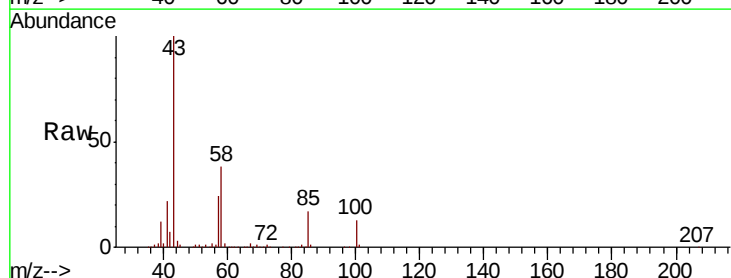


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VNO
Ion 119.00 (118.70 to 119.70): V

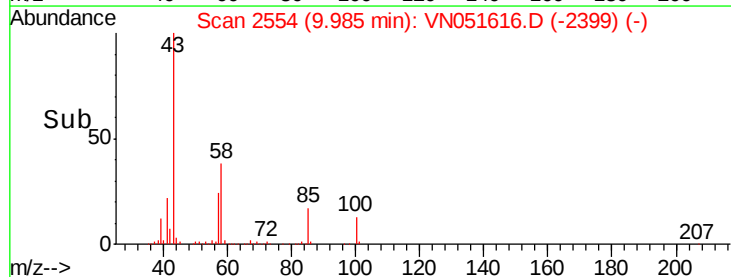
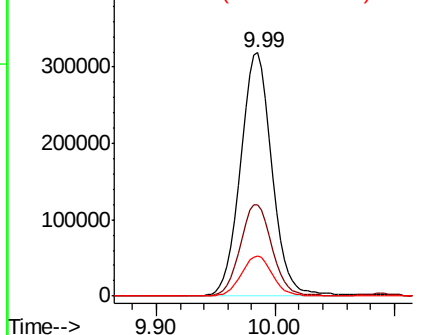


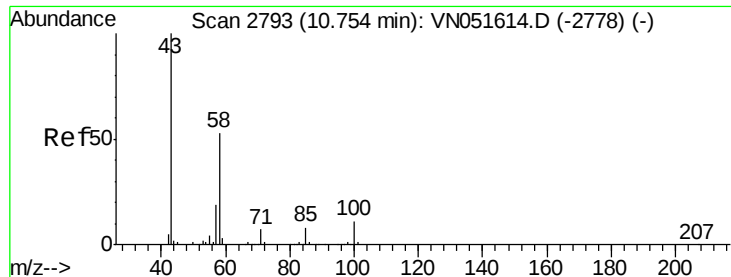
#58
4-Methyl-2-Pentanone
Concen: 101.367 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. -0.00 min
Lab File: VN051616.D
Acq: 28 Sep 2018 14:57

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	582100		
58	38.4		31.0	46.4
85	16.6		13.4	20.2



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 58.00 (57.70 to 58.70): VNO
Ion 85.00 (84.70 to 85.70): VNO





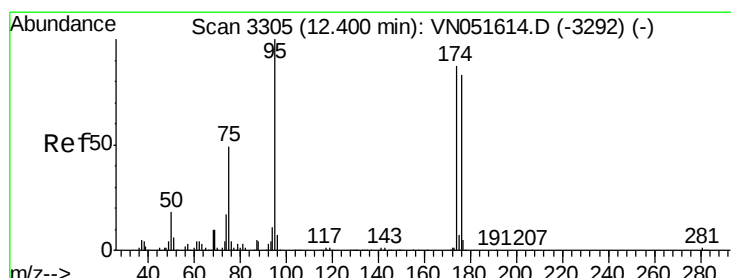
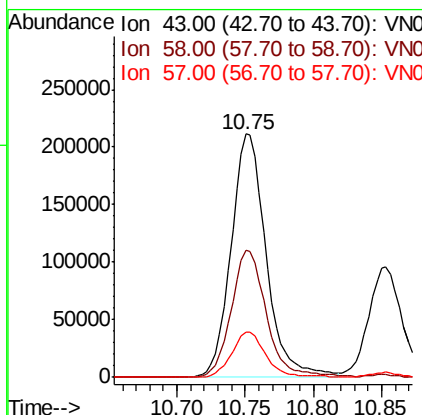
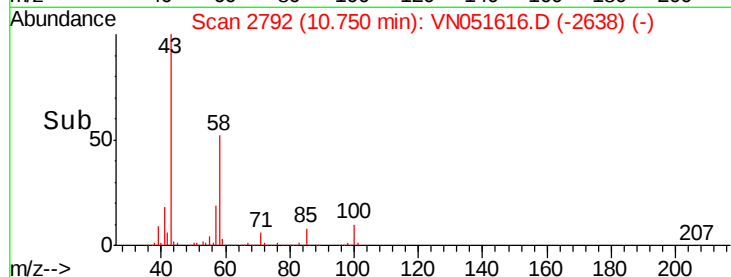
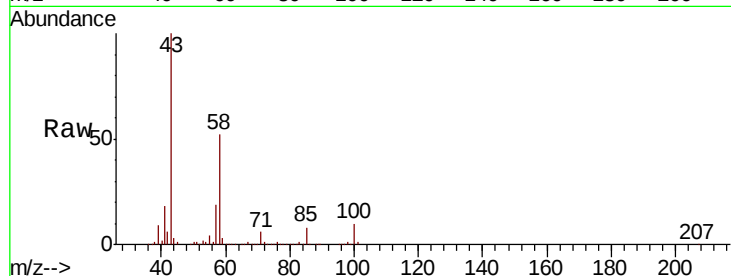
#59
2-Hexanone
Concen: 99.285 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN051616.D
Acq: 28 Sep 2018 14:57

Instrument :
MSVOA_N
ClientSampled :
ICVVN092818

Tot Ion:	43	Resp:	375084
Ion	Ratio	Lower	Upper
43	100		
58	52.8	41.5	62.3
57	18.3	14.2	21.4

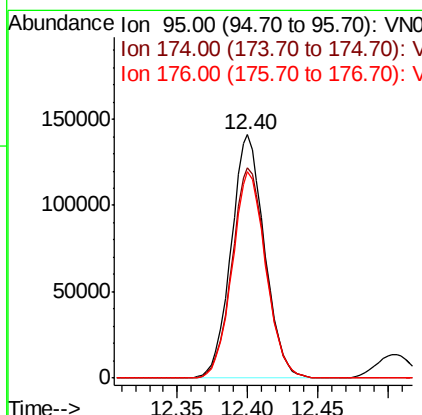
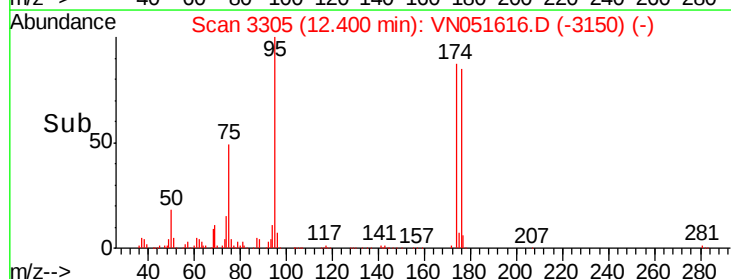
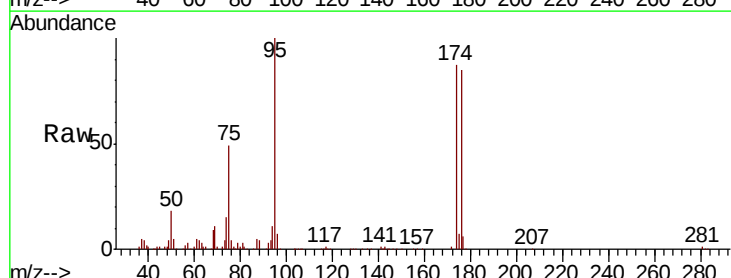
Manual Integrations
APPROVED

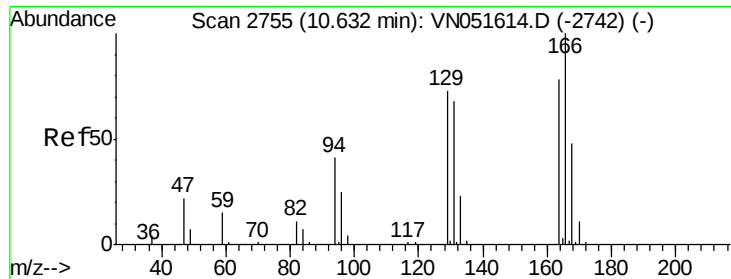
MMDadoda
10/3/2018 5:27:41 PM



#60
4-Bromofluorobenzene
Concen: 99.285 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN051616.D
Acq: 28 Sep 2018 14:57

Tgt Ion:	95	Resp:	233568
Ion	Ratio	Lower	Upper
95	100		
174	88.4	71.2	106.8
176	85.6	67.8	101.8





#61

Tetrachloroethene

Concen: 20.814 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. -0.00 min

Lab File: VN051616.D

Acq: 28 Sep 2018 14:57

Instrument :

MSVOA_N

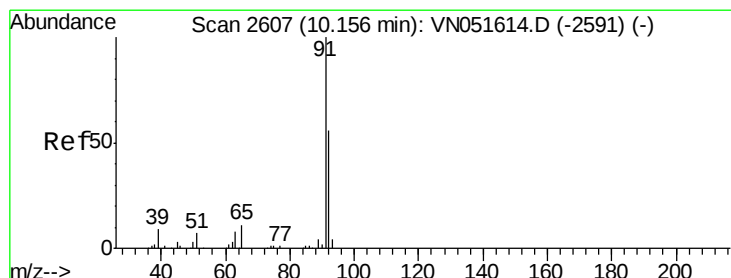
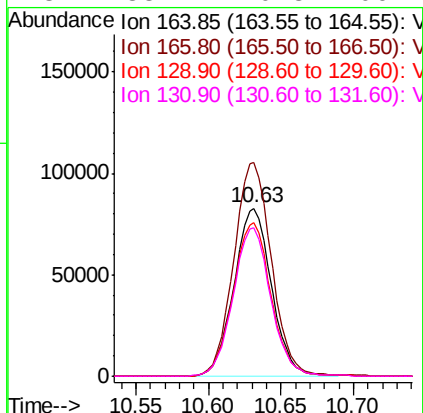
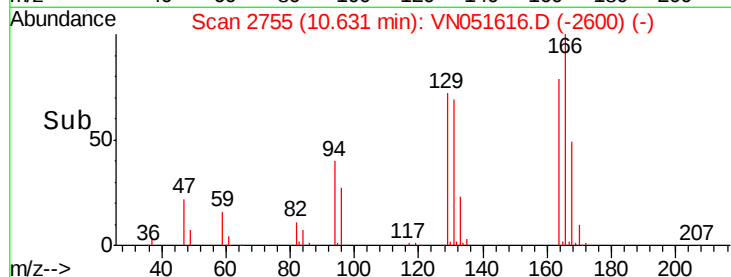
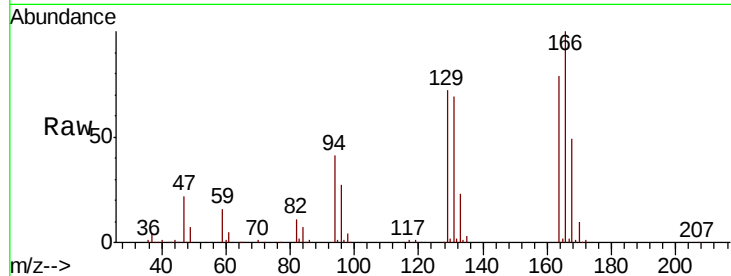
ClientSampleId :

ICVVN092818

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
166	127.2	149050	103.1	154.7
129	91.4		75.3	112.9
131	88.2		70.8	106.2

Manual Integrations
APPROVED

MMDadoda
10/3/2018 5:27:41 PM



#62

Toluene

Concen: 20.168 ug/l

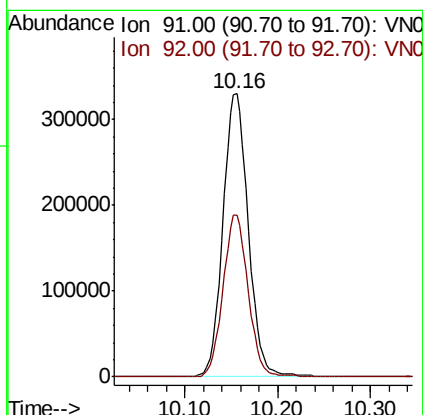
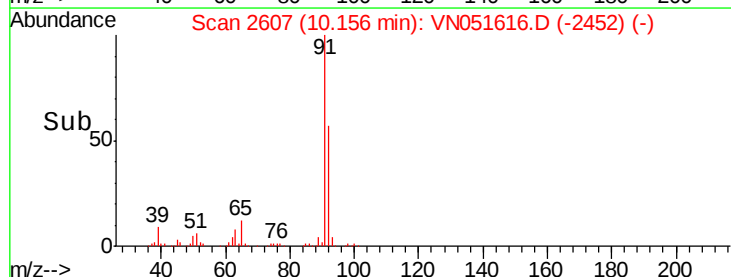
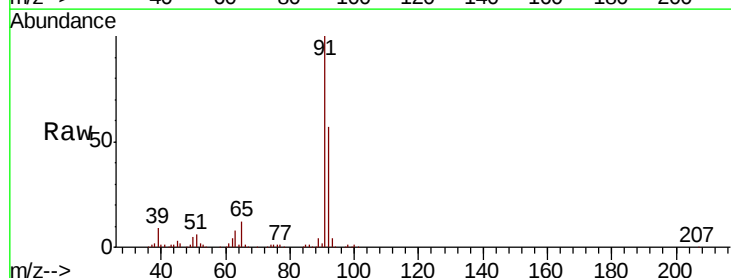
RT: 10.16 min Scan# 2607

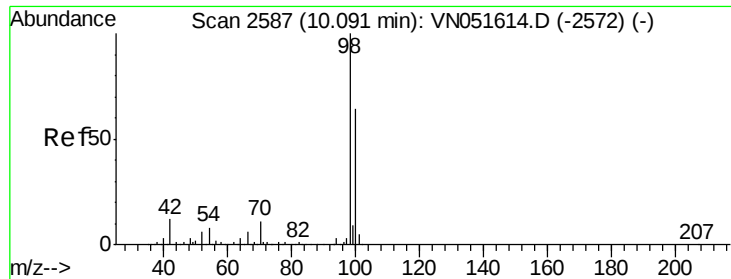
Delta R.T. -0.00 min

Lab File: VN051616.D

Acq: 28 Sep 2018 14:57

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	625488		
92	56.8		45.3	67.9





#63

Toluene-d8

Concen: 20.168 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN051616.D

Acq: 28 Sep 2018 14:57

Instrument :

MSVOA_N

ClientSampleId :

ICVVN092818

Tot Ion: 98 Resp: 733301

Ion Ratio Lower Upper

98 100

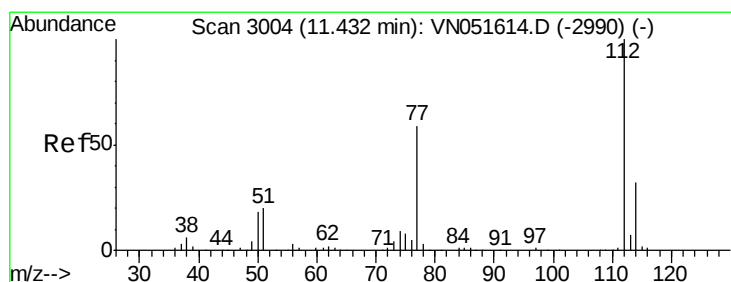
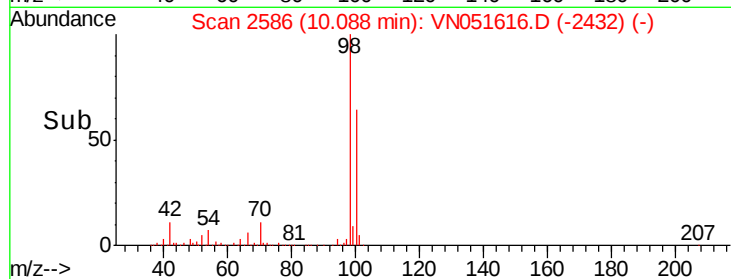
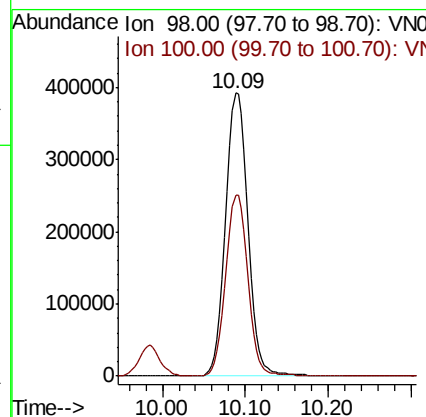
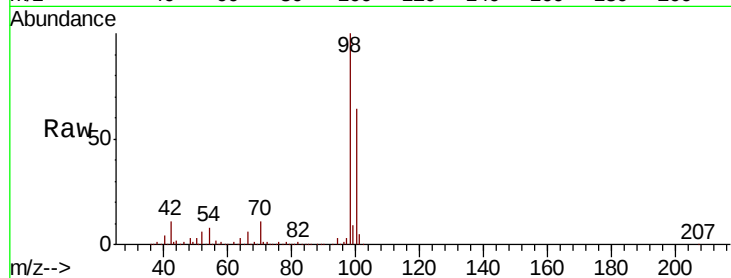
100 63.1 51.4 77.0

Manual Integrations

APPROVED

MMDadoda

10/3/2018 5:27:41 PM



#64

Chlorobenzene

Concen: 19.860 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VN051616.D

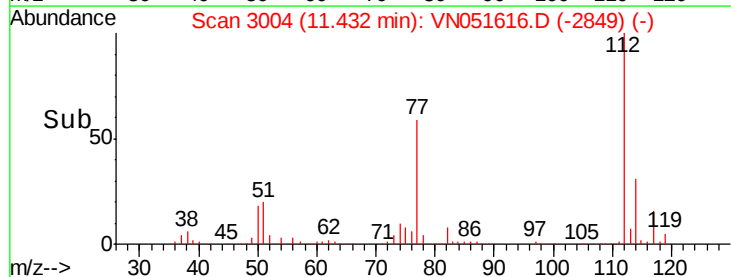
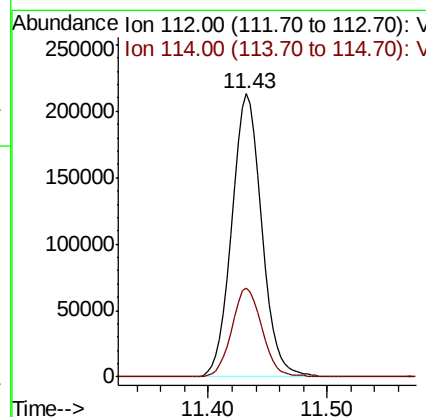
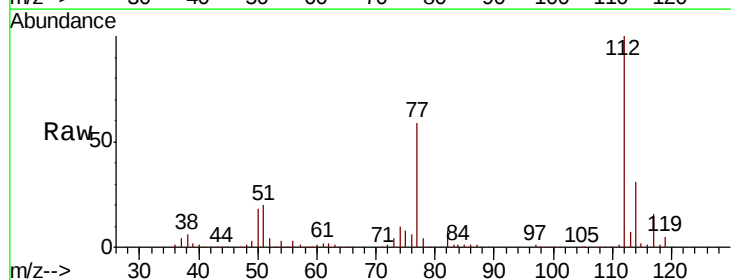
Acq: 28 Sep 2018 14:57

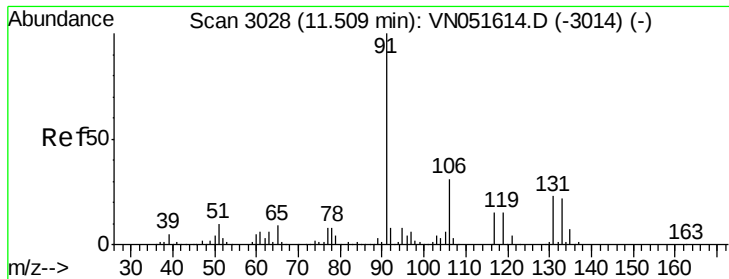
Tgt Ion: 112 Resp: 372395

Ion Ratio Lower Upper

112 100

114 31.5 25.9 38.9





#65

1,1,1,2-Tetrachloroethane

Concen: 20.207 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN051616.D

Acq: 28 Sep 2018 14:57

Instrument :

MSVOA_N

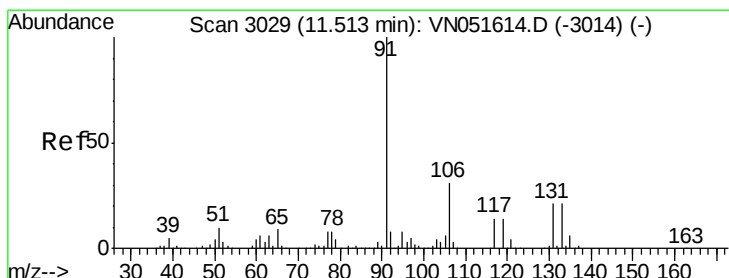
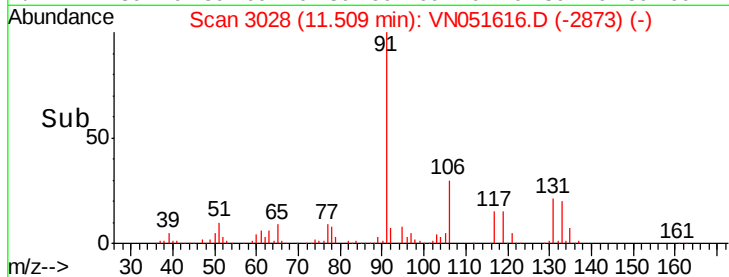
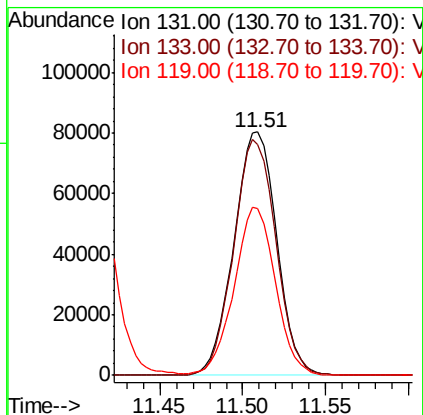
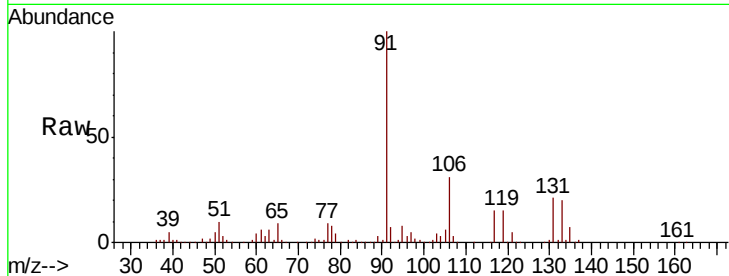
ClientSampled :

ICVVN092818

Tot Ion:	131	Resp:	144683
Ion Ratio	Lower	Upper	
131	100		
133	95.8	0.0	193.0
119	66.5	0.0	135.0

Manual Integrations
APPROVED

MMDadoda
10/3/2018 5:27:41 PM



#66

Ethyl Benzene

Concen: 19.686 ug/l

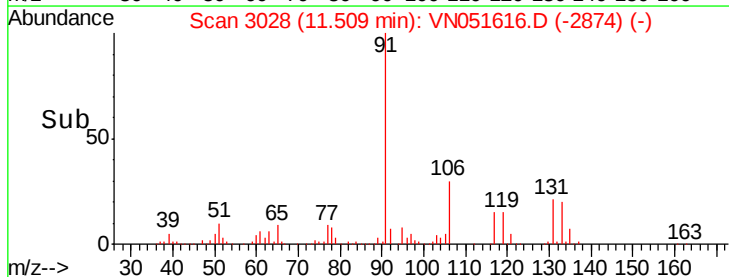
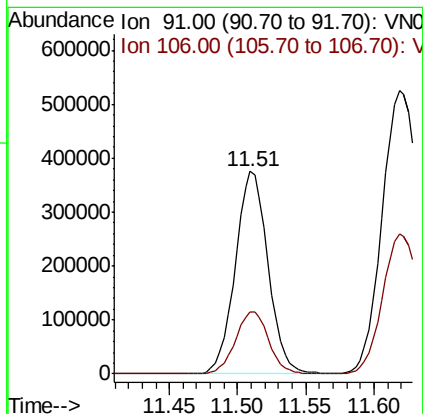
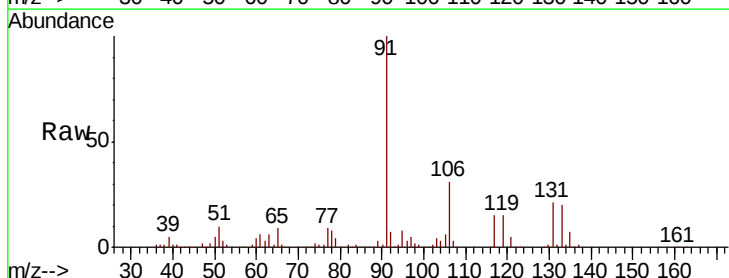
RT: 11.51 min Scan# 3028

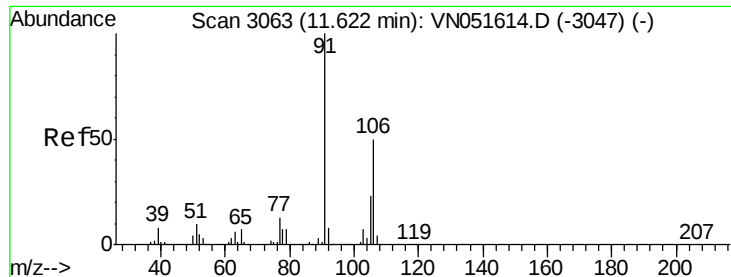
Delta R.T. -0.00 min

Lab File: VN051616.D

Acq: 28 Sep 2018 14:57

Tgt Ion:	91	Resp:	624841
Ion Ratio	Lower	Upper	
91	100		
106	30.5	25.0	37.4





#67

m/p-Xylenes

Concen: 40.752 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN051616.D

Acq: 28 Sep 2018 14:57

Instrument :

MSVOA_N

ClientSampled :

ICVVN092818

Tot Ion:106 Resp: 498520

Ion Ratio Lower Upper

106 100

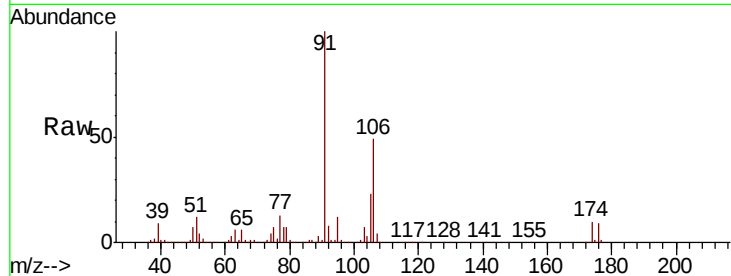
91 204.3 161.5 242.3

Manual Integrations

APPROVED

MMDadoda

10/3/2018 5:27:41 PM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN

600000

500000

400000

300000

200000

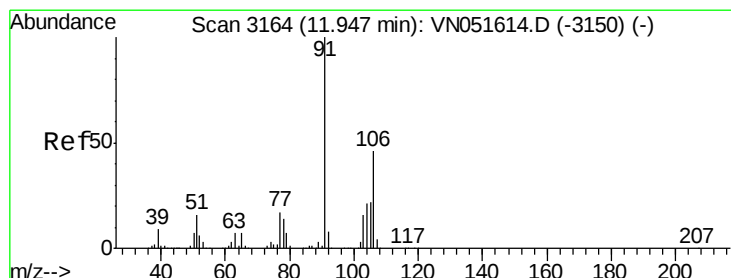
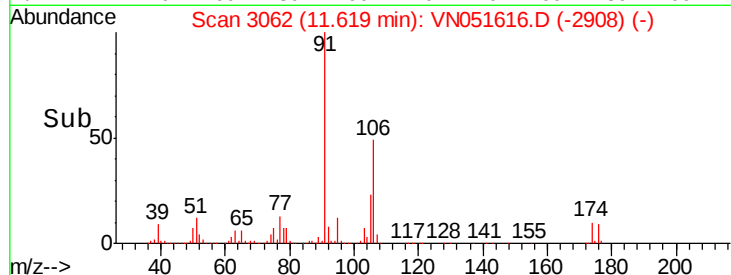
100000

0

11.62

11.70

Time-->



#68

o-Xylene

Concen: 20.060 ug/l

RT: 11.95 min Scan# 3164

Delta R.T. -0.00 min

Lab File: VN051616.D

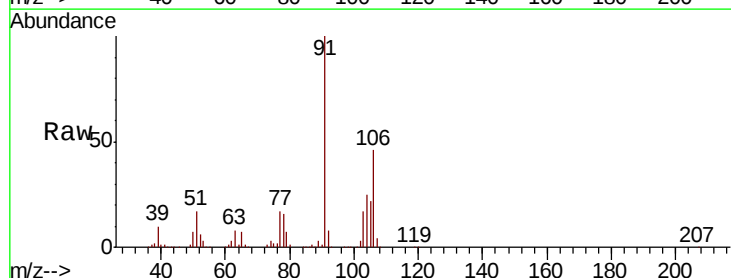
Acq: 28 Sep 2018 14:57

Tgt Ion:106 Resp: 234253

Ion Ratio Lower Upper

106 100

91 216.5 109.7 329.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN

300000

200000

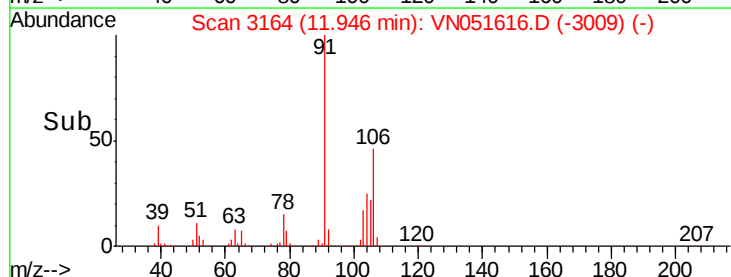
100000

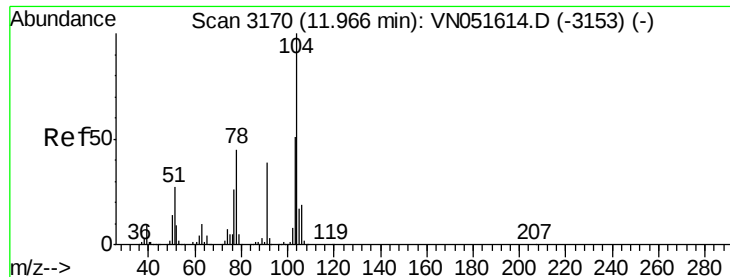
0

11.95

12.00

Time-->





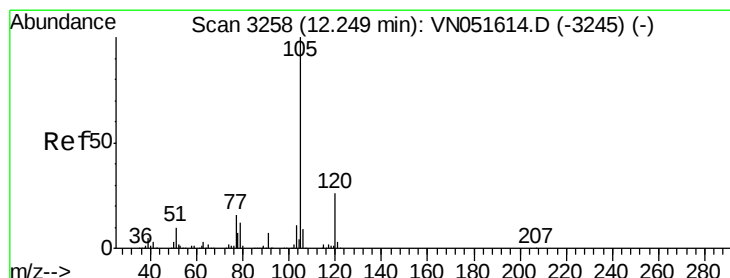
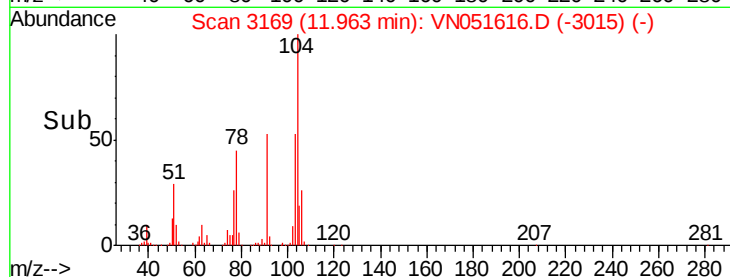
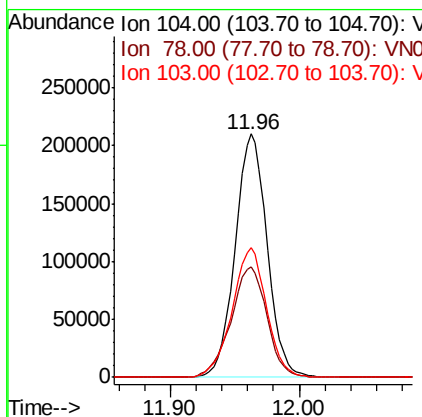
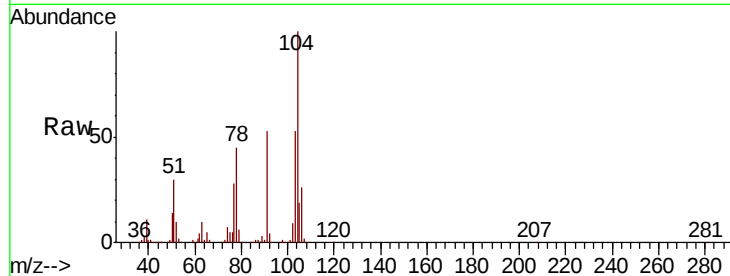
#69
Stvrene
Concen: 19.750 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN051616.D
Acq: 28 Sep 2018 14:57

Instrument :
MSVOA_N
ClientSampleId :
ICVVN092818

Tot Ion	Ratio	Lower	Upper
104	100		
78	50.9	40.3	60.5
103	57.2	45.7	68.5

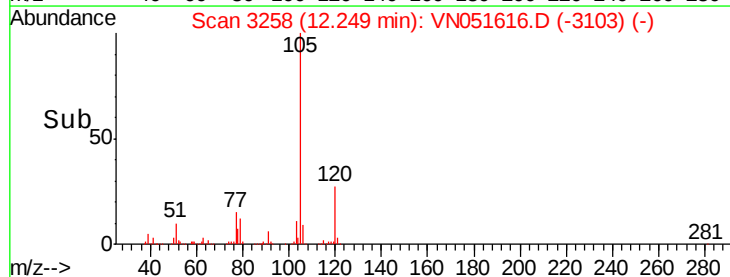
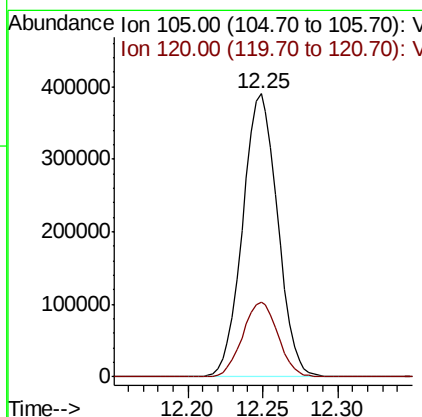
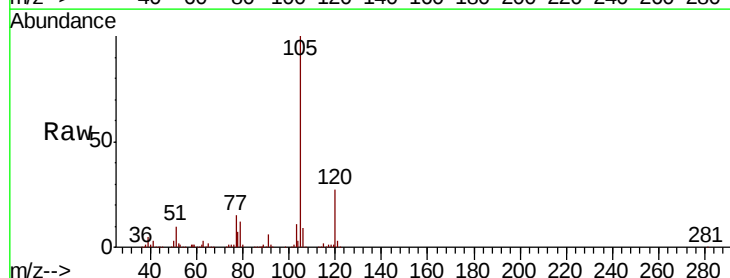
Manual Integrations
APPROVED

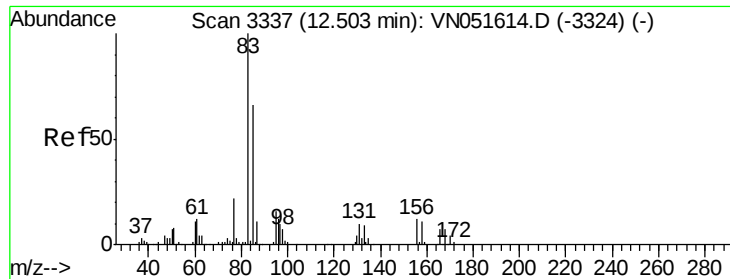
MMDadoda
10/3/2018 5:27:41 PM



#70
Isopropylbenzene
Concen: 20.387 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. -0.00 min
Lab File: VN051616.D
Acq: 28 Sep 2018 14:57

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.9	18.7	34.7





#71

1,1,2,2-Tetrachloroethane

Concen: 19.750 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN051616.D

Acq: 28 Sep 2018 14:57

Instrument :

MSVOA_N

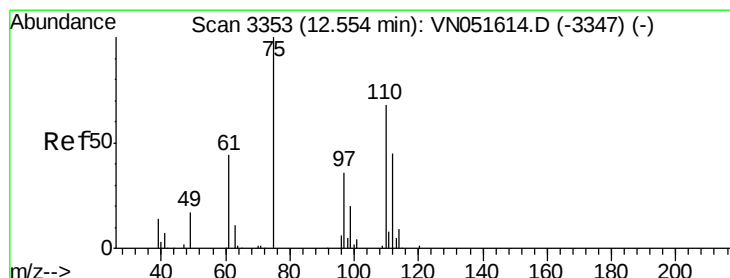
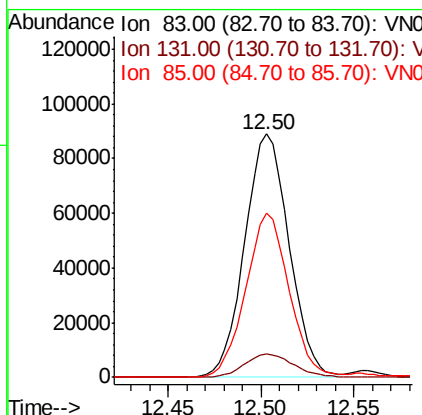
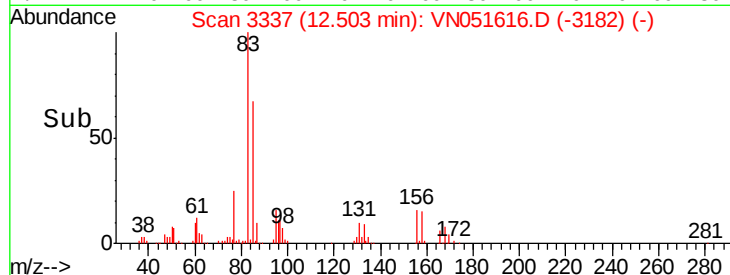
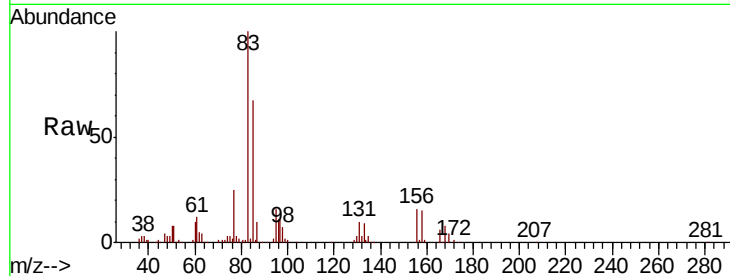
ClientSampleId :

ICVVN092818

Tot Ion:	83	Resp:	148839
Ion Ratio	Lower	Upper	
83	100		
131	10.5	5.2	15.6
85	65.8	32.0	96.2

Manual Integrations
APPROVED

MMDadoda
10/3/2018 5:27:41 PM



#72

1,2,3-Trichloropropane

Concen: 20.819 ug/l m

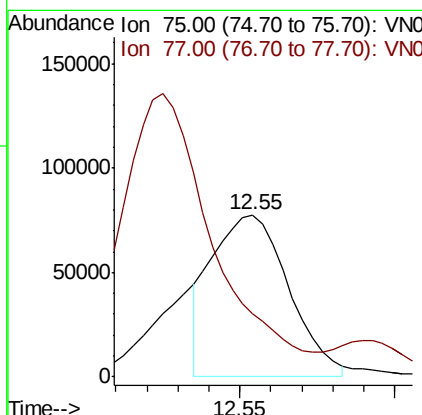
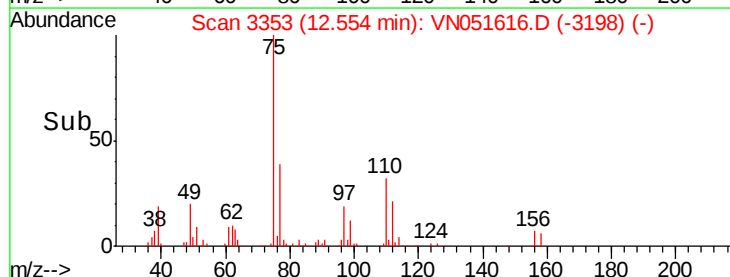
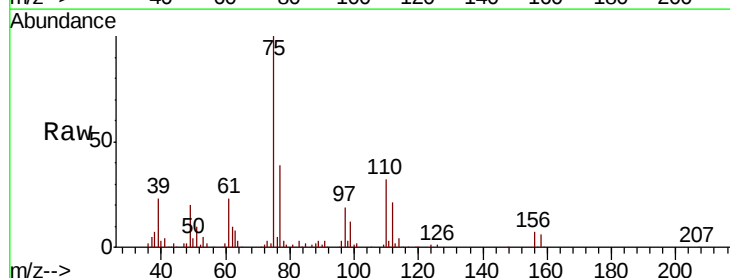
RT: 12.55 min Scan# 3353

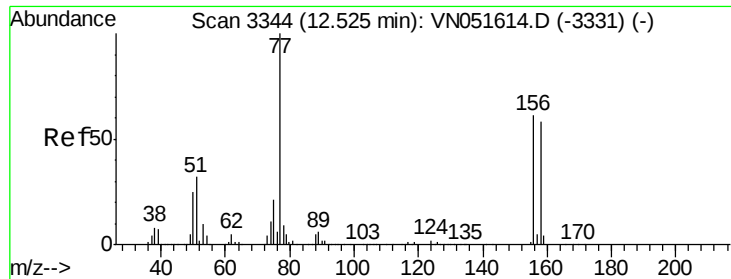
Delta R.T. -0.00 min

Lab File: VN051616.D

Acq: 28 Sep 2018 14:57

Tgt Ion:	75	Resp:	134140
Ion Ratio	Lower	Upper	
75	100		
77	210.4	0.0	492.2





#73

Bromobenzene

Concen: 19.975 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN051616.D

Acq: 28 Sep 2018 14:57

Instrument :

MSVOA_N

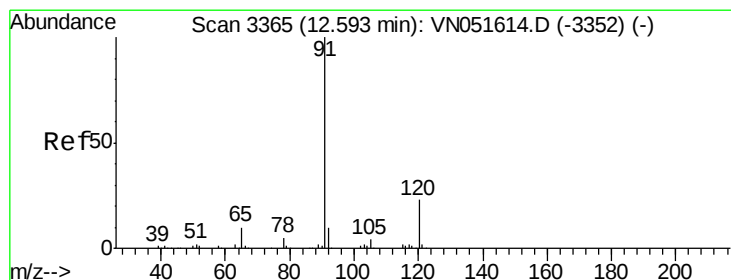
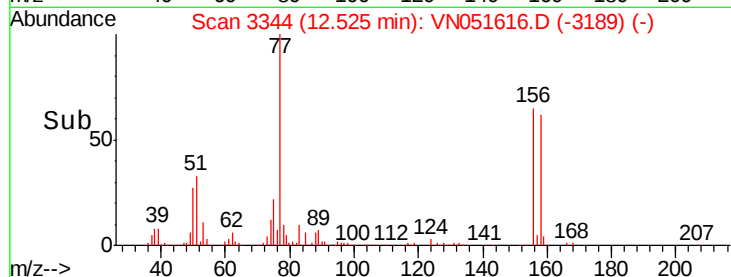
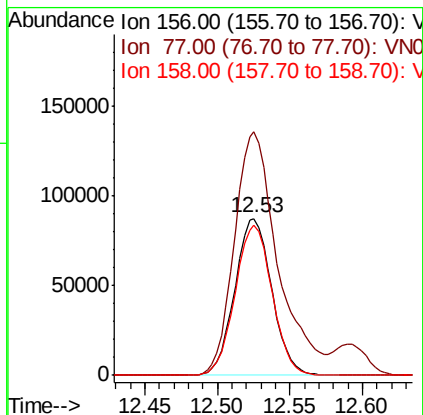
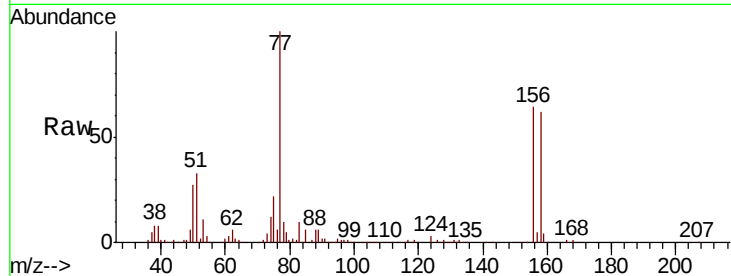
ClientSampleId :

ICVVN092818

Tot Ion:	156	Resp:	154842
Ion Ratio	Lower	Upper	
156	100		
77	182.3	0.0	385.2
158	95.7	0.0	195.6

Manual Integrations
APPROVED

MMDadoda
10/3/2018 5:27:41 PM



#74

n-propylbenzene

Concen: 20.101 ug/l

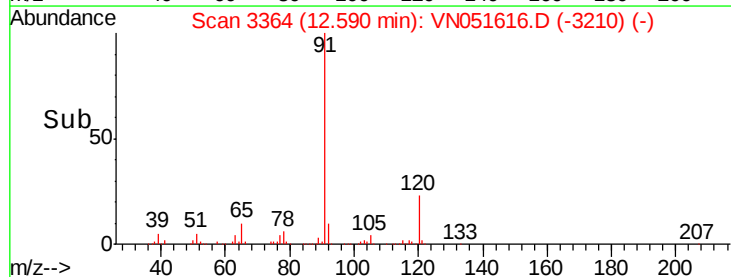
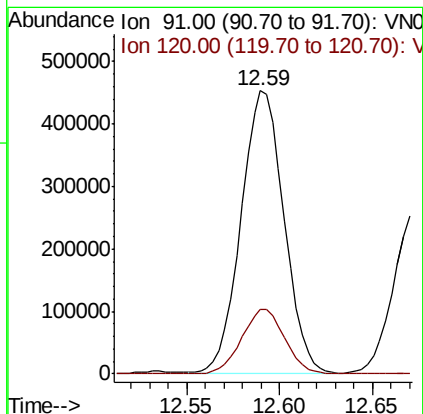
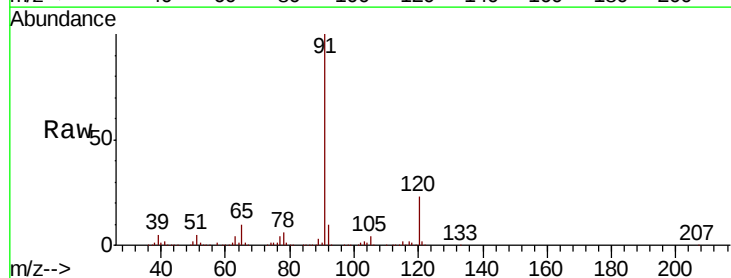
RT: 12.59 min Scan# 3364

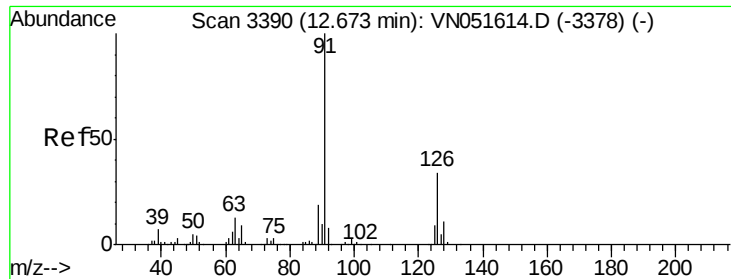
Delta R.T. -0.00 min

Lab File: VN051616.D

Acq: 28 Sep 2018 14:57

Tgt Ion:	91	Resp:	728914
Ion Ratio	Lower	Upper	
91	100		
120	22.6	0.0	45.4





#75

2-Chlorotoluene

Concen: 20.379 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN051616.D

Acq: 28 Sep 2018 14:57

Instrument :

MSVOA_N

ClientSampled :

ICVVN092818

Tot Ion: 91 Resp: 441287

Ion Ratio Lower Upper

91 100

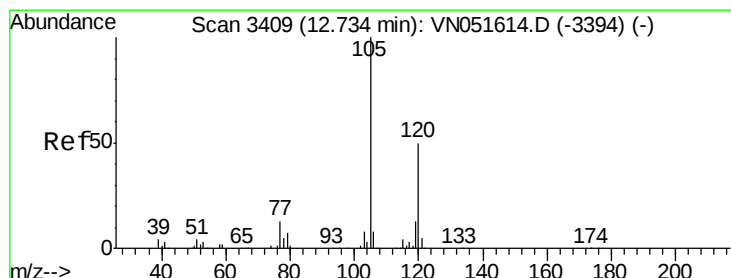
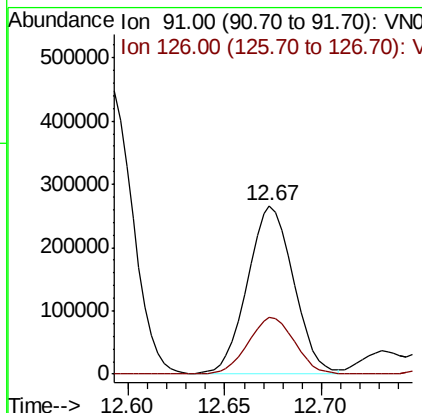
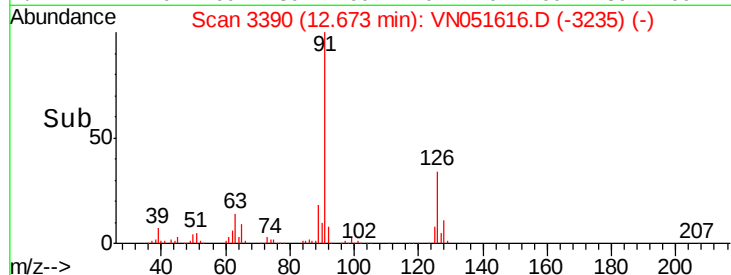
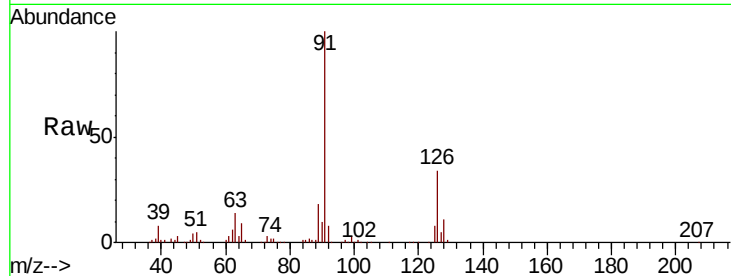
126 34.0 0.0 69.2

Manual Integrations

APPROVED

MMDadoda

10/3/2018 5:27:41 PM



#76

1,3,5-Trimethylbenzene

Concen: 20.434 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN051616.D

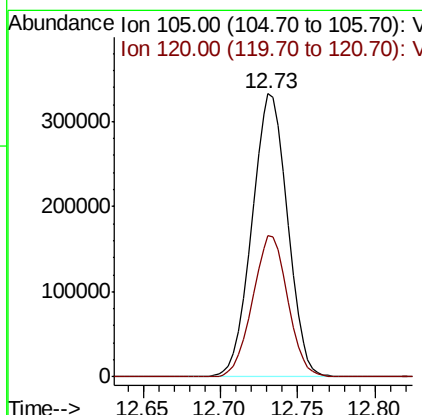
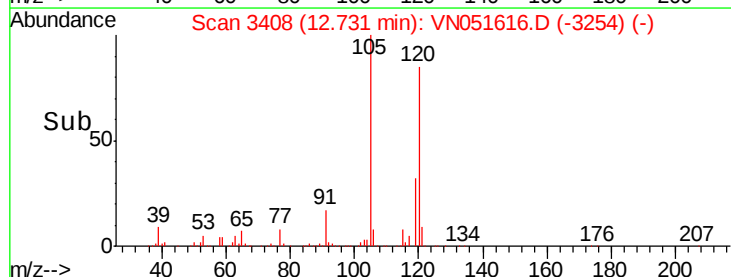
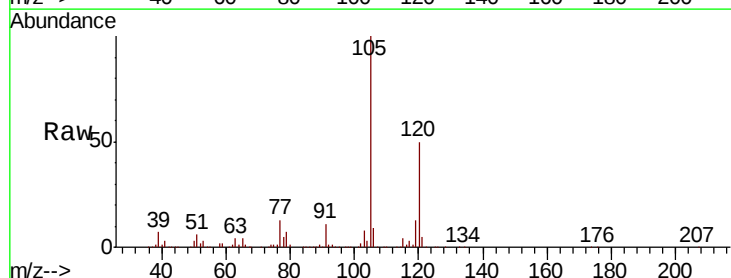
Acq: 28 Sep 2018 14:57

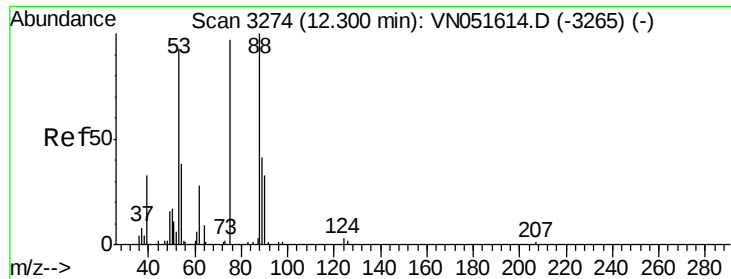
Tgt Ion: 105 Resp: 531867

Ion Ratio Lower Upper

105 100

120 49.6 0.0 99.8





#77

t-1,4-Dichloro-2-butene

Concen: 18.762 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. -0.00 min

Lab File: VN051616.D

Acq: 28 Sep 2018 14:57

Instrument :

MSVOA_N

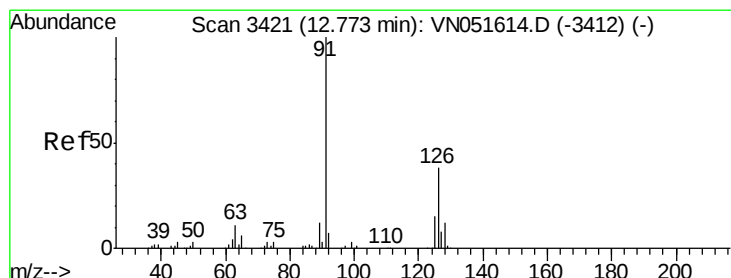
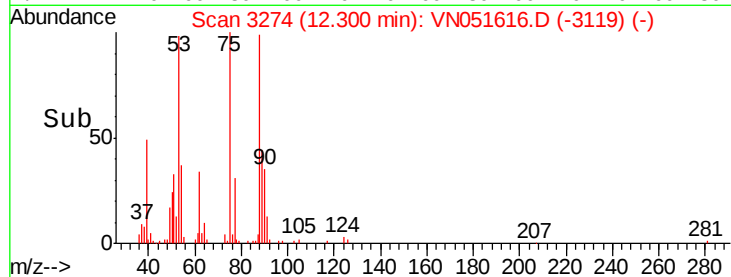
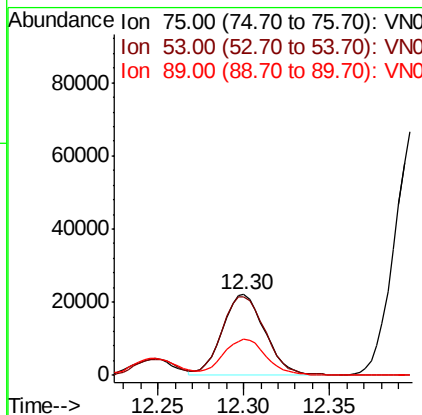
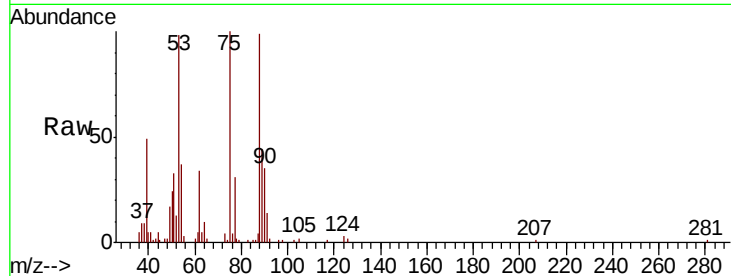
ClientSampleId :

ICVVN092818

Tot Ion:	75	Resp:	38288
Ion	Ratio	Lower	Upper
75	100		
53	98.3	48.1	144.4
89	44.6	22.4	67.3

Manual Integrations
APPROVED

MMDadoda
10/3/2018 5:27:41 PM



#78

4-Chlorotoluene

Concen: 20.197 ug/l

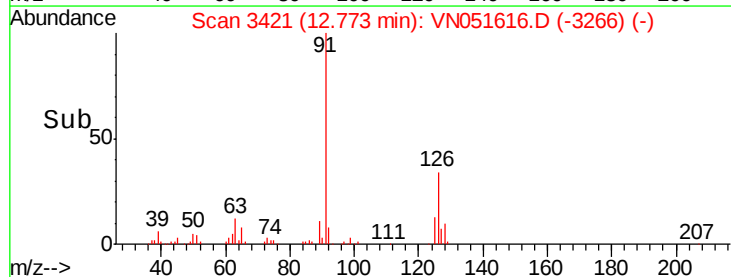
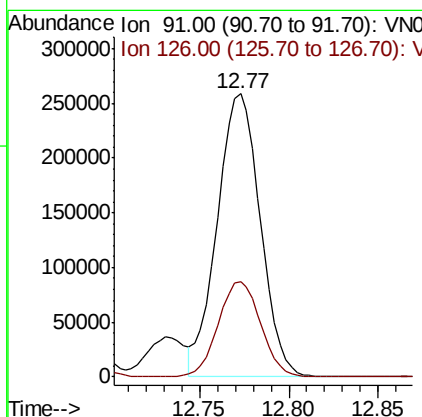
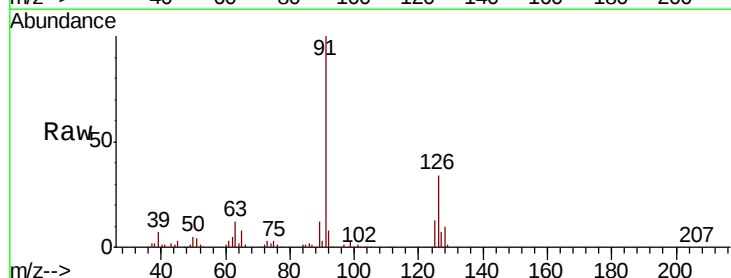
RT: 12.77 min Scan# 3421

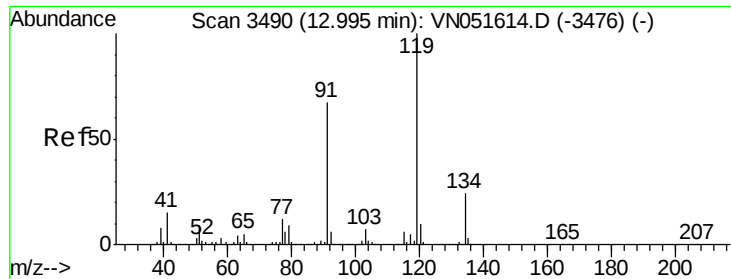
Delta R.T. -0.00 min

Lab File: VN051616.D

Acq: 28 Sep 2018 14:57

Tgt Ion:	91	Resp:	432012
Ion	Ratio	Lower	Upper
91	100		
126	33.4	0.0	68.6





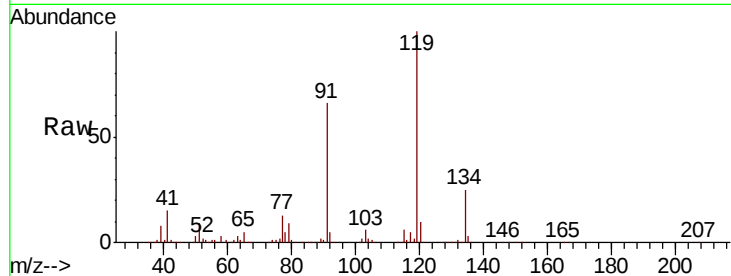
#79
tert-butylbenzene
Concen: 20.127 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. -0.00 min
Lab File: VN051616.D
Acq: 28 Sep 2018 14:57

Instrument :
MSVOA_N
ClientSampleId :
ICVVN092818

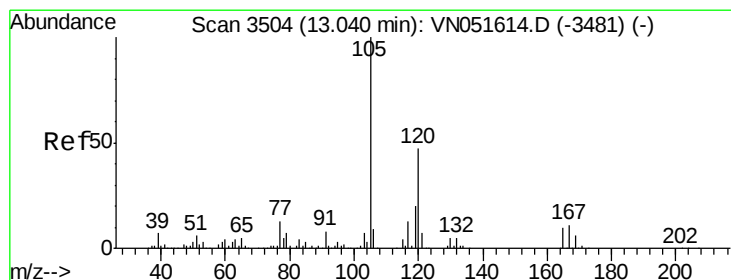
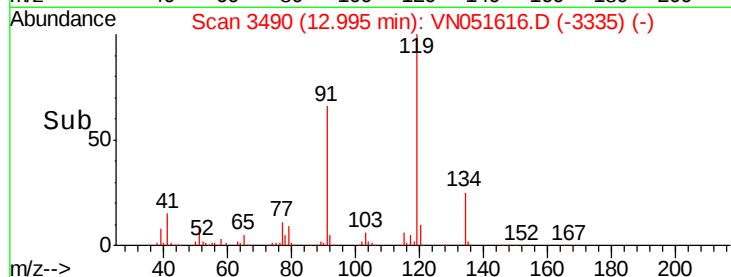
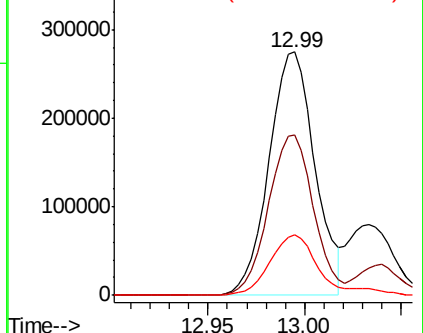
Tot Ion	Ratio	Resp	Lower	Upper
119	100	453853		
91	65.0	0.0	132.4	
134	25.0	0.0	48.4	

Manual Integrations
APPROVED

MMDadoda
10/3/2018 5:27:41 PM

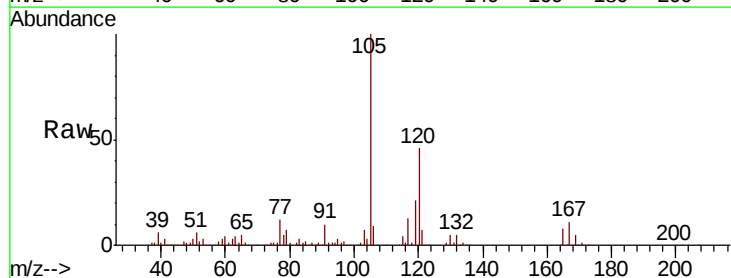


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V

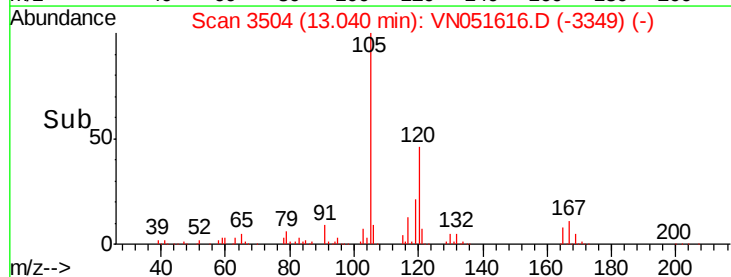
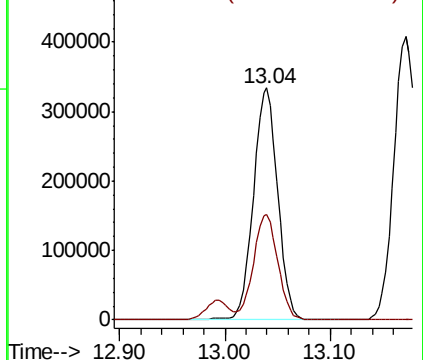


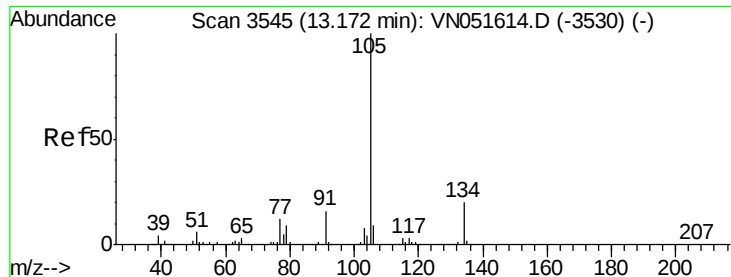
#80
1,2,4-Trimethylbenzene
Concen: 20.628 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. -0.00 min
Lab File: VN051616.D
Acq: 28 Sep 2018 14:57

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	536283		
120	45.6	0.0	91.6	



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#81

sec-Butylbenzene

Concen: 20.489 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN051616.D

Acq: 28 Sep 2018 14:57

Instrument :

MSVOA_N

ClientSampleId :

ICVVN092818

Tot Ion:105 Resp: 638208

Ion Ratio Lower Upper

105 100

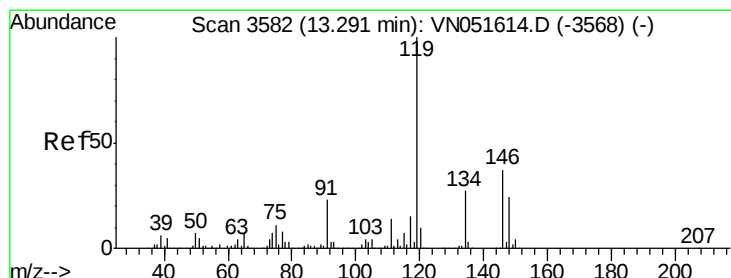
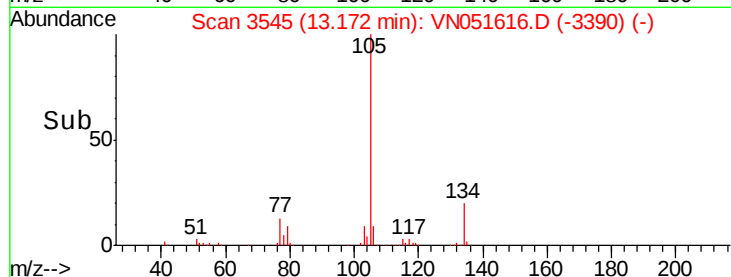
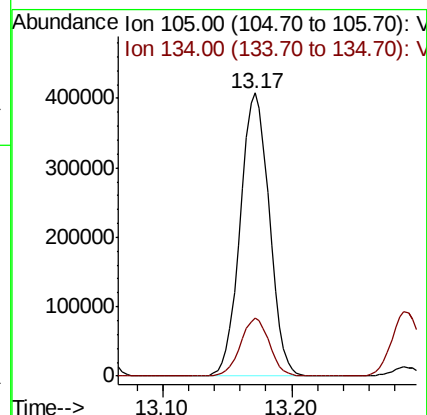
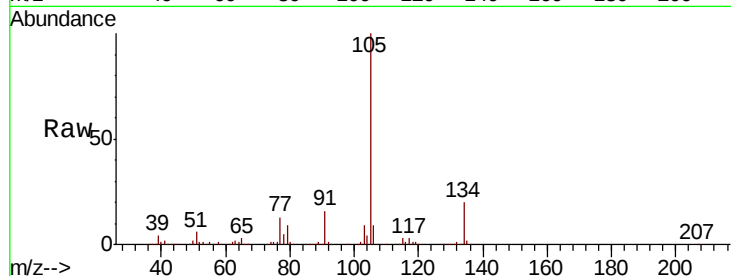
134 20.2 0.0 39.8

Manual Integrations

APPROVED

MMDadoda

10/3/2018 5:27:41 PM



#82

p-Isopropyltoluene

Concen: 20.403 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN051616.D

Acq: 28 Sep 2018 14:57

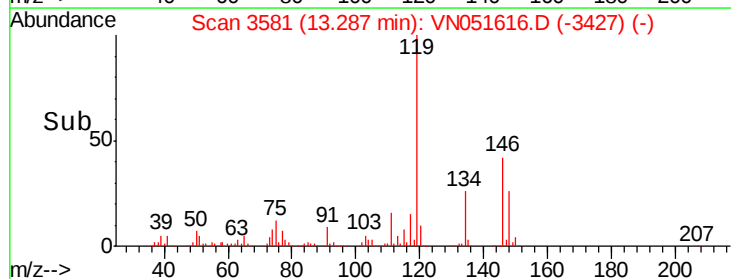
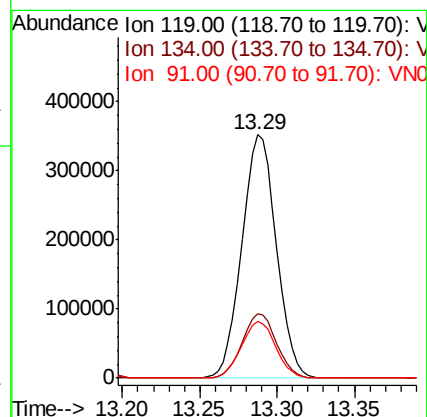
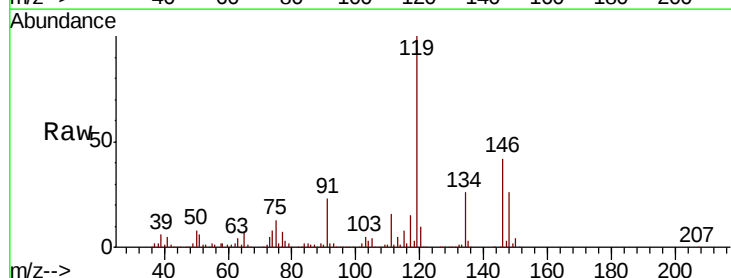
Tgt Ion:119 Resp: 543191

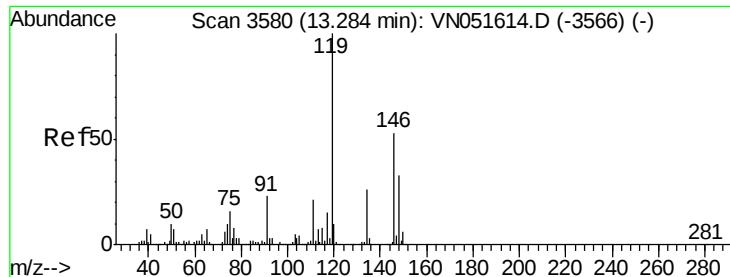
Ion Ratio Lower Upper

119 100

134 26.4 0.0 52.0

91 23.2 0.0 46.0





#83

1,3-Dichlorobenzene

Concen: 20.043 ug/l

RT: 13.28 min Scan# 3579

Delta R.T. -0.00 min

Lab File: VN051616.D

Acq: 28 Sep 2018 14:57

Instrument :

MSVOA_N

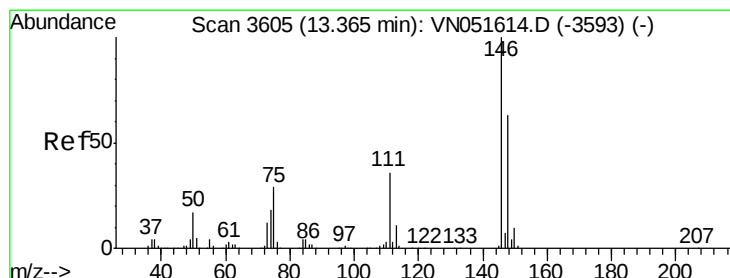
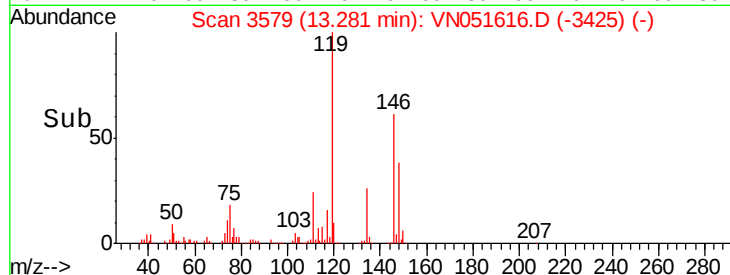
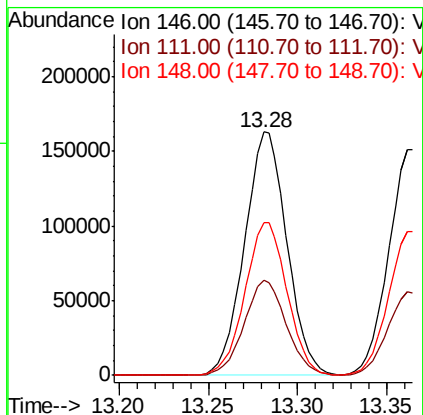
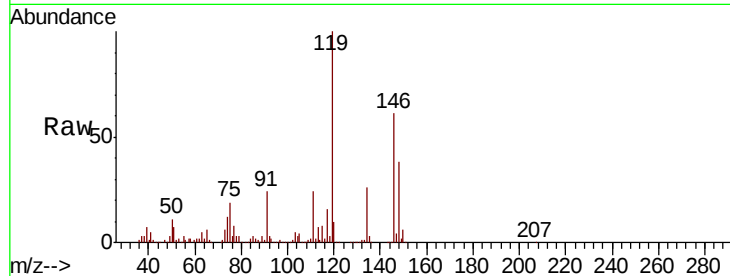
ClientSampled :

ICVVN092818

Tot Ion:	146	Resp:	270728
Ion Ratio	Lower	Upper	
146	100		
111	38.7	19.9	59.6
148	62.6	32.4	97.2

Manual Integrations
APPROVED

MMDadoda
10/3/2018 5:27:41 PM



#84

1,4-Dichlorobenzene

Concen: 19.620 ug/l

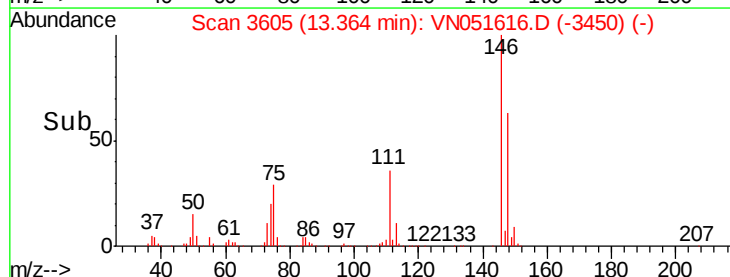
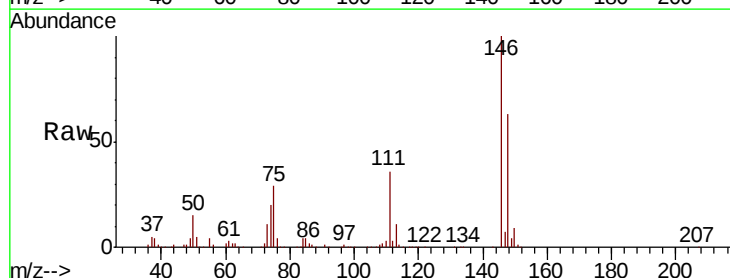
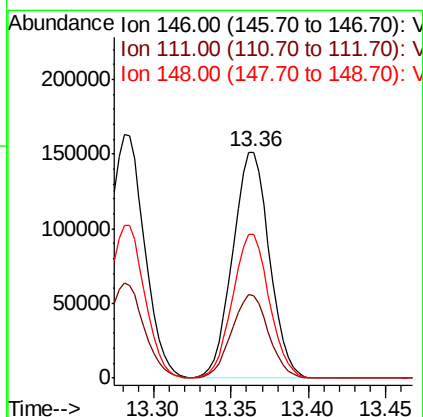
RT: 13.36 min Scan# 3605

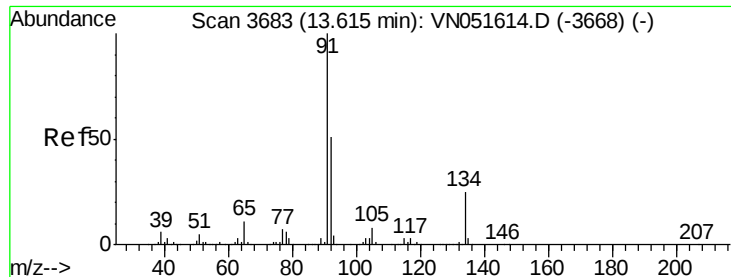
Delta R.T. -0.00 min

Lab File: VN051616.D

Acq: 28 Sep 2018 14:57

Tgt Ion:	146	Resp:	249123
Ion Ratio	Lower	Upper	
146	100		
111	37.2	18.6	55.8
148	63.8	32.1	96.5





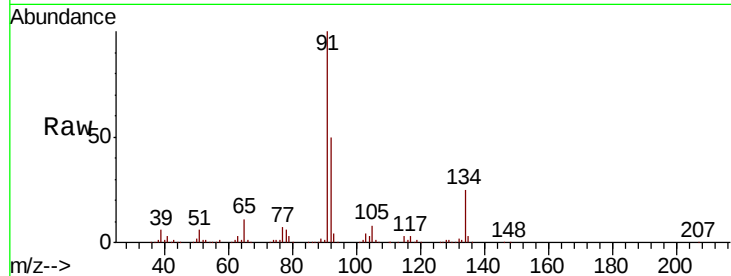
#85
n-Butylbenzene
Concen: 19.427 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. -0.00 min
Lab File: VN051616.D
Acq: 28 Sep 2018 14:57

Instrument :
MSVOA_N
ClientSampleId :
ICVVN092818

Tot Ion	Ratio	Lower	Upper
91	100		
92	50.7	0.0	101.6
134	25.0	0.0	50.6

Manual Integrations
APPROVED

MMDadoda
10/3/2018 5:27:41 PM

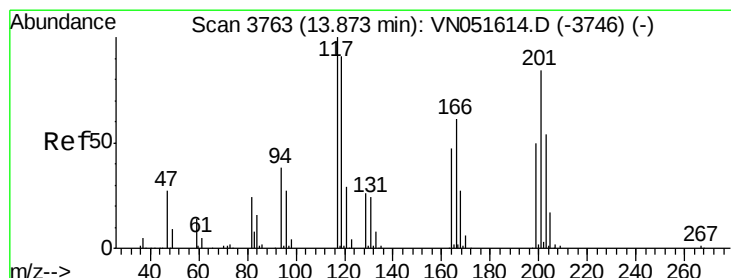
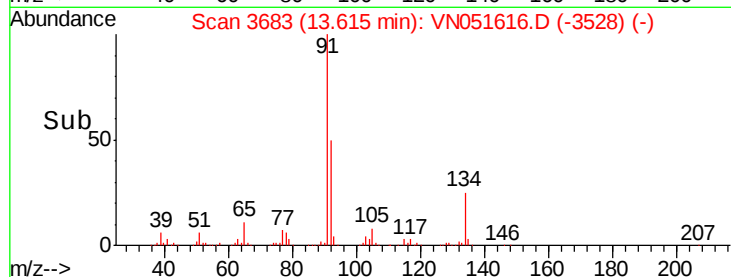
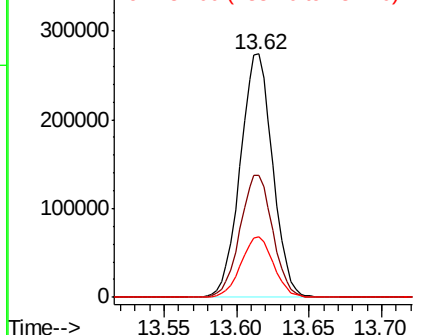


Abundance

Ion 91.00 (90.70 to 91.70): VN051616.D (-3668) (-)

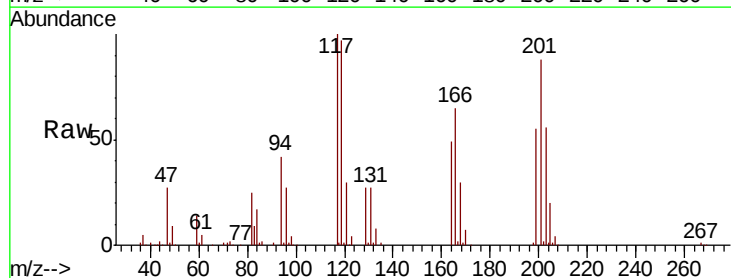
Ion 92.00 (91.70 to 92.70): VN051616.D (-3668) (-)

Ion 134.00 (133.70 to 134.70): VN051616.D (-3668) (-)



#86
Hexachloroethane
Concen: 19.861 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN051616.D
Acq: 28 Sep 2018 14:57

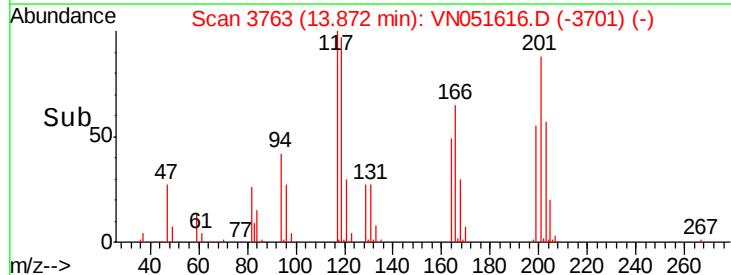
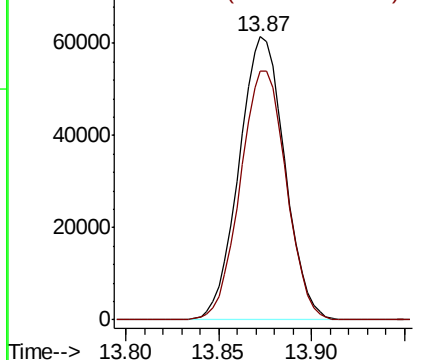
Tgt Ion	Ratio	Lower	Upper
117	100		
201	88.2	42.9	128.5

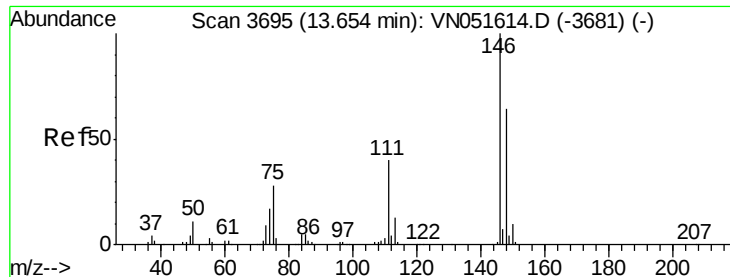


Abundance

Ion 117.00 (116.70 to 117.70): VN051616.D (-3746) (-)

Ion 201.00 (200.70 to 201.70): VN051616.D (-3746) (-)





#87

1,2-Dichlorobenzene

Concen: 19.846 ug/l

RT: 13.65 min Scan# 3694

Delta R.T. -0.00 min

Lab File: VN051616.D

Acq: 28 Sep 2018 14:57

Instrument :

MSVOA_N

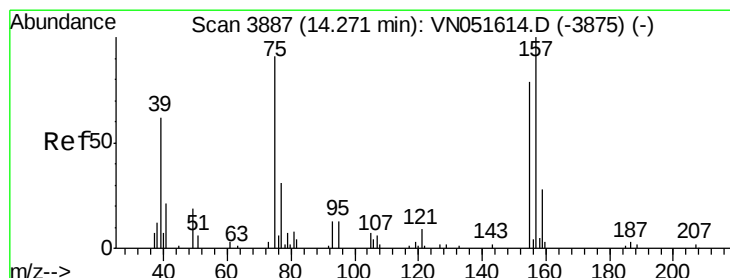
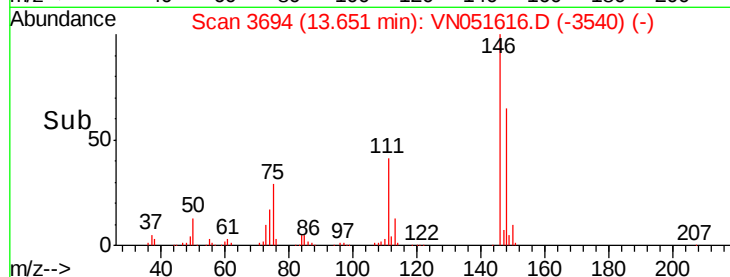
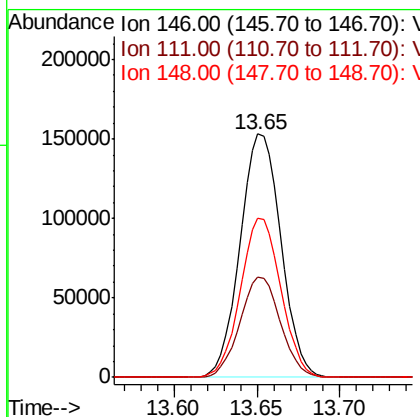
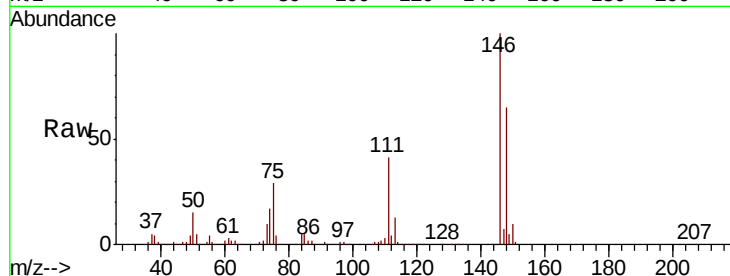
ClientSampleId :

ICVVN092818

Tot Ion:	146	Resp:	262234
Ion Ratio	Lower	Upper	
146	100		
111	40.9	20.1	60.3
148	64.8	32.1	96.5

Manual Integrations
APPROVED

MMDadoda
10/3/2018 5:27:41 PM



#88

1,2-Dibromo-3-Chloropropane

Concen: 19.210 ug/l

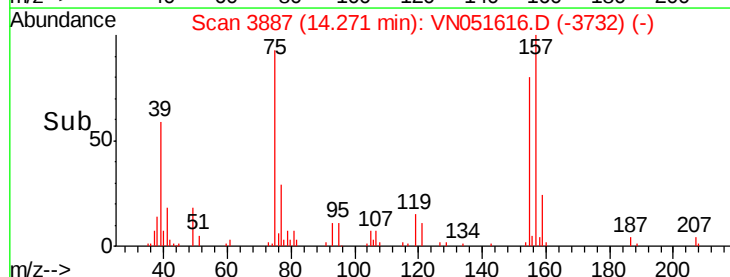
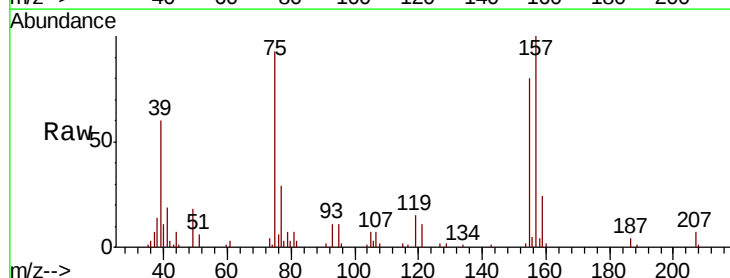
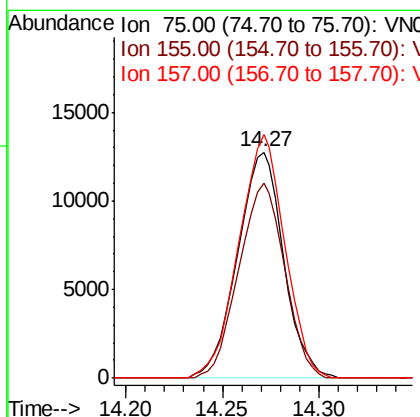
RT: 14.27 min Scan# 3887

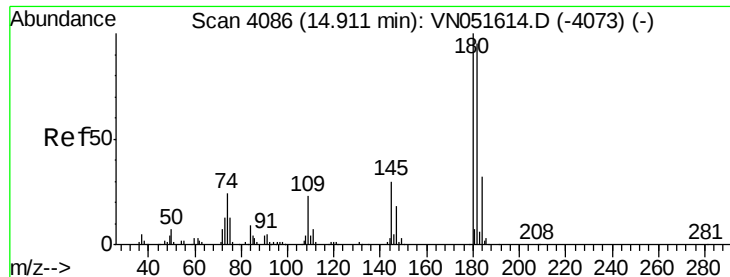
Delta R.T. -0.00 min

Lab File: VN051616.D

Acq: 28 Sep 2018 14:57

Tgt Ion:	75	Resp:	21101
Ion Ratio	Lower	Upper	
75	100		
155	85.9	67.1	100.7
157	107.8	85.8	128.6





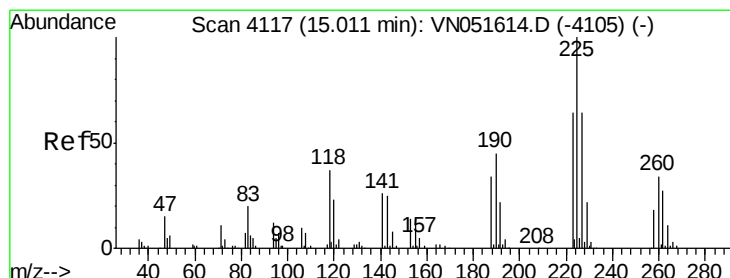
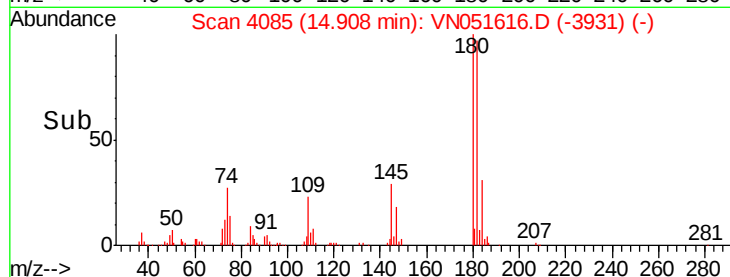
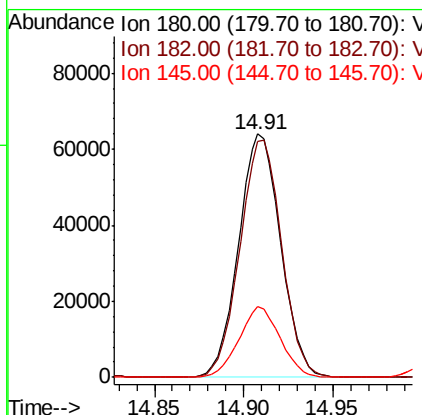
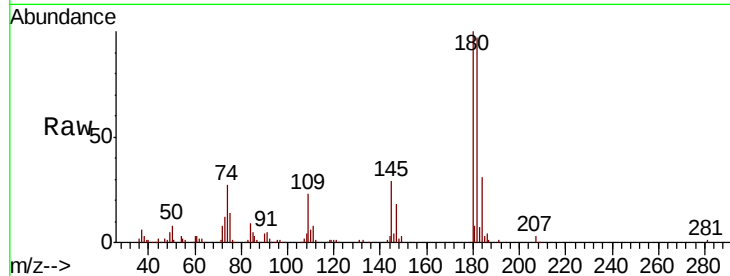
#89
 1,2,4-Trichlorobenzene
 Concen: 16.981 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN051616.D
 Acq: 28 Sep 2018 14:57

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN092818

Tot Ion	Ratio	Resp	Lower	Upper
180	100	105023		
182	97.0		75.2	112.8
145	28.4		22.9	34.3

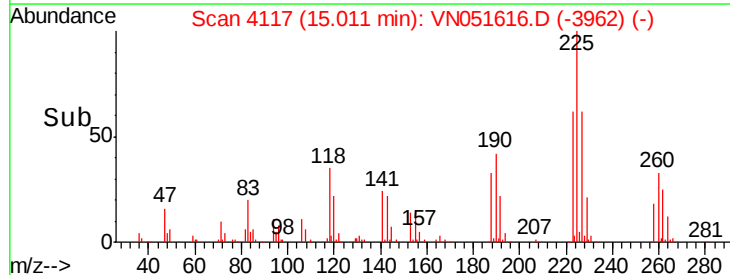
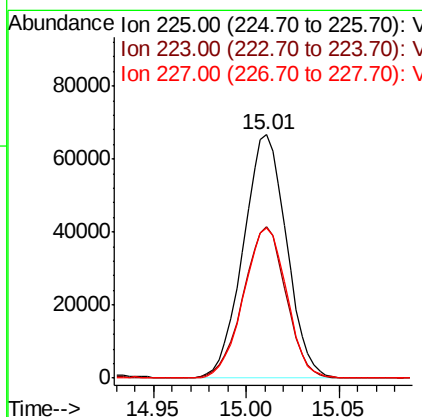
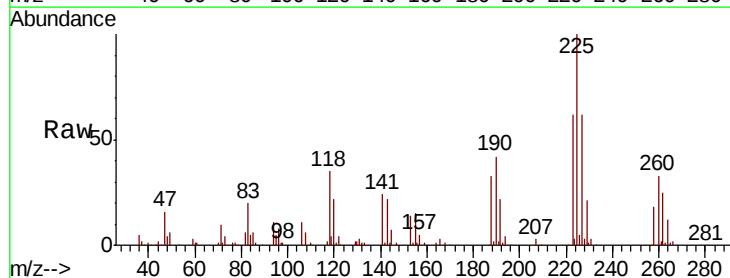
Manual Integrations
 APPROVED

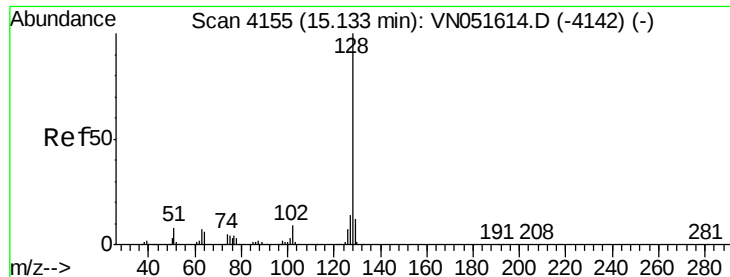
MMDadoda
 10/3/2018 5:27:41 PM



#90
 Hexachlorobutadiene
 Concen: 21.447 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. -0.00 min
 Lab File: VN051616.D
 Acq: 28 Sep 2018 14:57

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	108138		
223	61.3		0.0	131.0
227	61.4		0.0	129.0





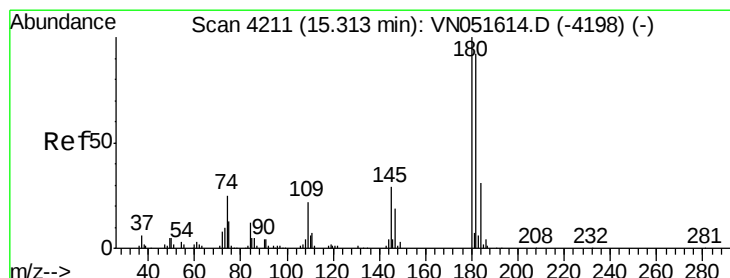
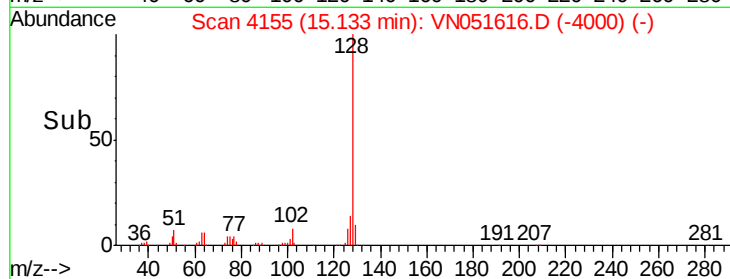
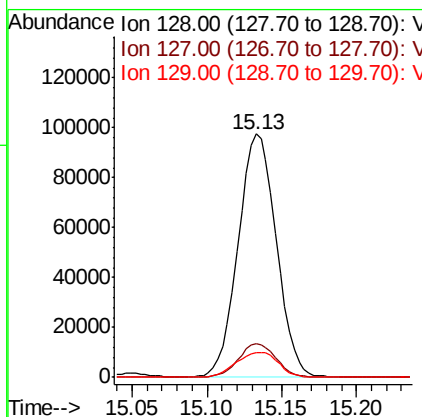
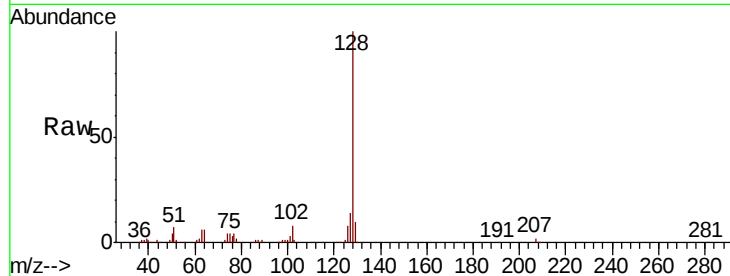
#91
Naphthalene
Concen: 17.821 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN051616.D
Acq: 28 Sep 2018 14:57

Instrument :
MSVOA_N
ClientSampleId :
ICVVN092818

Tot Ion	Ion	Ratio	Resp	Lower	Upper
128	100		173517		
127	13.5		10.8	16.2	
129	11.3		9.1	13.7	

Manual Integrations
APPROVED

MMDadoda
10/3/2018 5:27:41 PM



#92
1,2,3-Trichlorobenzene
Concen: 17.892 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. -0.00 min
Lab File: VN051616.D
Acq: 28 Sep 2018 14:57

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
180	100		111288		
182	95.6		0.0	191.8	
145	30.0		0.0	60.4	

