

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092818\
 Data File : VN051613.D
 Acq On : 28 Sep 2018 10:42
 Operator : MD\SY
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 10/3/2018 5:27:39 PM

Quant Time: Sep 29 01:02:18 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N092818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Sep 29 00:34:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	106666	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	565511	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	465552	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	220156	29.64	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.80%
60) 4-Bromofluorobenzene	12.40	95	193023	26.96	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	89.87%
63) Toluene-d8	10.09	98	677793	30.86	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.87%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	35817	3.826	ug/l 96
3) Chloromethane	2.06	50	47866	4.569	ug/l 96
4) Vinyl Chloride	2.18	62	46725	4.547	ug/l 97
5) Bromomethane	2.57	94	28171	5.278	ug/l 97
6) Chloroethane	2.71	64	23734	4.604	ug/l 100
7) Trichlorofluoromethane	3.02	101	60060	4.784	ug/l 98
8) Diethyl Ether	3.41	74	19444	4.930	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	3.76	101	35191	4.958	ug/l 98
10) 1,1-Dichloroethene	3.74	96	31748	4.929	ug/l 96
11) Methyl Iodide	3.96	142	28302	3.414	ug/l 97
12) Methyl Acetate	4.33	43	32505	5.719	ug/l 96
13) Acrolein	3.61	56	16392	26.102	ug/l 99
14) Acrylonitrile	5.00	53	54596	23.983	ug/l 97
15) Acetone	3.82	58	15039	25.197	ug/l 85
16) Carbon Disulfide	4.06	76	108157	5.211	ug/l 98
17) Allyl chloride	4.33	41	53819	4.671	ug/l 98
18) Methylene Chloride	4.56	84	39282	5.305	ug/l 94
19) trans-1,2-Dichloroethene	5.05	96	33994	4.972	ug/l 93
20) Diisopropyl ether	5.96	45	102323	4.477	ug/l 93
21) 1,1-Dichloroethane	5.85	63	69206	5.109	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	35210	4.716	ug/l 95
23) tert-Butyl Alcohol	4.79	59	11337m	26.134	ug/l
24) Methyl tert-Butyl Ether	5.05	73	77277	4.565	ug/l 95
25) Chloroform	7.37	83	64591	4.987	ug/l 97
26) Cyclohexane	7.65	56	49201	4.197	ug/l 98
29) 1,1-Dichloropropene	7.80	75	46552	4.828	ug/l 99
30) 2-Butanone	6.84	43	66191	25.220	ug/l 98
31) 2,2-Dichloropropane	6.83	77	51796	4.977	ug/l 96
32) 1,1,1-Trichloroethane	7.57	97	55529	5.125	ug/l 99
33) Carbon Tetrachloride	7.78	117	48663	4.997	ug/l 98
34) Benzene	8.04	78	143605	5.020	ug/l # 71
35) Methacrylonitrile	7.18	41	12551	4.126	ug/l 86
36) 1,2-Dichloroethane	8.13	62	48330	5.300	ug/l 98
37) Trichloroethene	8.84	130	38010	5.175	ug/l 97
38) Methylcyclohexane	9.08	83	49455	4.444	ug/l 96
39) 1,2-Dichloropropane	9.12	63	39910	5.091	ug/l 98
40) Dibromomethane	9.21	93	22399	5.144	ug/l 98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092818\
 Data File : VN051613.D
 Acq On : 28 Sep 2018 10:42
 Operator : MD\SY
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 10/3/2018 5:27:39 PM

Quant Time: Sep 29 01:02:18 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N092818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Sep 29 00:34:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	47888	5.038	ug/l	97
42) Vinyl Acetate	5.90	43	332115	22.730	ug/l	98
43) Ethyl Acetate	6.93	43	24709	4.448	ug/l	98
44) Isopropyl Acetate	8.17	43	59492	5.469	ug/l	92
45) 1,4-Dioxane	9.20	88	5428	92.372	ug/l #	84
46) Methyl methacrylate	9.20	41	23016	4.549	ug/l	95
47) n-amyl Acetate	12.07	43	31133	3.825	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	45814	4.829	ug/l	93
49) cis-1,3-Dichloropropene	9.84	75	52756	4.756	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	32776	5.326	ug/l	94
51) Ethyl methacrylate	10.43	69	32432	4.344	ug/l	99
52) 1,3-Dichloropropane	10.71	76	53385	5.059	ug/l	99
53) Dibromochloromethane	10.90	129	35255	5.030	ug/l	93
54) 1,2-Dibromoethane	11.01	107	29302	4.962	ug/l	100
55) 2-Chloroethyl vinyl ether	9.70	63	75963	20.583	ug/l	99
56) Bromoform	12.13	173	22812	4.905	ug/l	96
58) 4-Methyl-2-Pentanone	9.99	43	130412	24.673	ug/l	100
59) 2-Hexanone	10.75	43	82091	23.608	ug/l	98
61) Tetrachloroethene	10.63	164	35660	5.410	ug/l	98
62) Toluene	10.16	91	148195	5.191	ug/l	99
64) Chlorobenzene	11.43	112	89045	5.159	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	35194	5.340	ug/l	99
66) Ethyl Benzene	11.51	91	135326	4.632	ug/l	96
67) m/p-Xylenes	11.62	106	101528	9.017	ug/l	99
68) o-Xylene	11.95	106	49747	4.628	ug/l	98
69) Styrene	11.97	104	72256	4.283	ug/l	100
70) Isopropylbenzene	12.25	105	128796	4.492	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	36718	5.293	ug/l	96
72) 1,2,3-Trichloropropane	12.55	75	32279m	5.648	ug/l	
73) Bromobenzene	12.53	156	34448	4.828	ug/l	97
74) n-propylbenzene	12.59	91	145939	4.372	ug/l	99
75) 2-Chlorotoluene	12.67	91	93642	4.698	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	107493	4.487	ug/l	96
77) t-1,4-Dichloro-2-butene	12.30	75	7422	3.951	ug/l	91
78) 4-Chlorotoluene	12.77	91	87375	4.438	ug/l	99
79) tert-butylbenzene	12.99	119	93796	4.519	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	100247	4.189	ug/l	98
81) sec-Butylbenzene	13.17	105	125021	4.360	ug/l	99
82) p-Isopropyltoluene	13.29	119	99429	4.057	ug/l	98
83) 1,3-Dichlorobenzene	13.28	146	56192	4.520	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	49773	4.259	ug/l	99
85) n-Butylbenzene	13.62	91	74047	3.681	ug/l	99
86) Hexachloroethane	13.87	117	24908	5.082	ug/l	95
87) 1,2-Dichlorobenzene	13.65	146	56965	4.684	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	4908	4.854	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	17461	3.067	ug/l	96
90) Hexachlorobutadiene	15.01	225	23687	5.104	ug/l	97
91) Naphthalene	15.13	128	34201	3.199	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	21395	3.737	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092818\
Data File : VN051613.D
Acq On : 28 Sep 2018 10:42
Operator : MD\SY
Sample : VSTDICC005
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 8 Sample Multiplier: 28

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

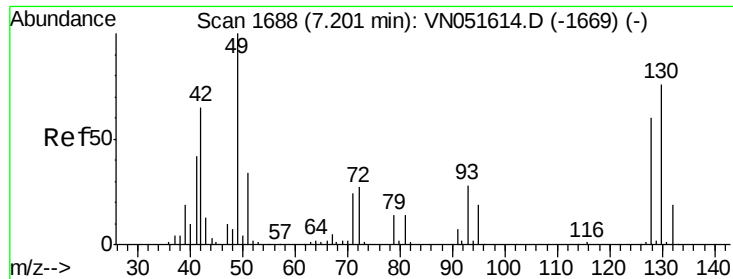
Manual Integrations
APPROVED

MMDadoda
10/3/2018 5:27:39 PM

Quant Time: Sep 29 01:02:18 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N092818W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Sep 29 00:34:08 2018
Response via : Initial Calibration

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

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



#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. -0.00 min

Lab File: VN051613.D

Acq: 28 Sep 2018 10:42

Instrument :

MSVOA_N

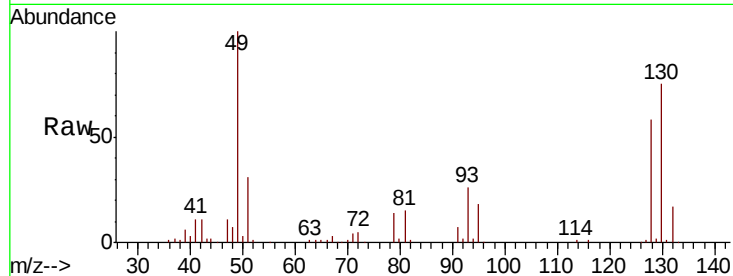
ClientSampleId :

VSTDIC005

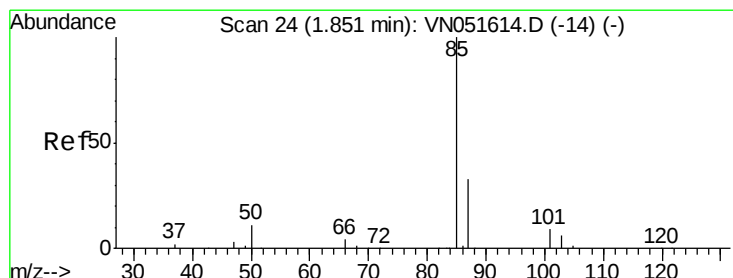
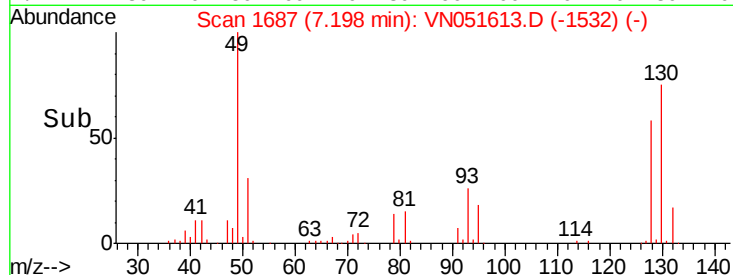
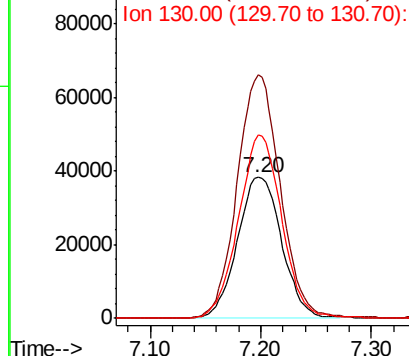
Tot Ion:	128	Resp:	106666
Ion	Ratio	Lower	Upper
128	100		
49	167.9	0.0	426.8
130	126.9	0.0	326.3

Manual Integrations
APPROVED

MMDadoda
10/3/2018 5:27:39 PM



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): V
Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 3.826 ug/l

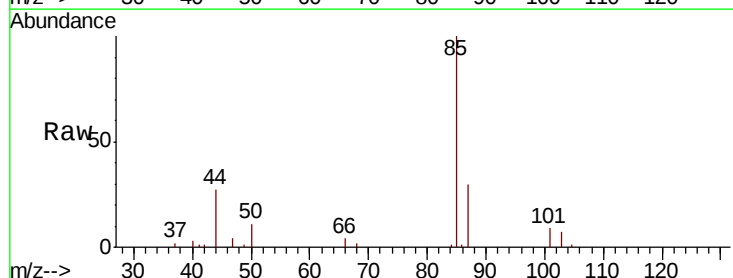
RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

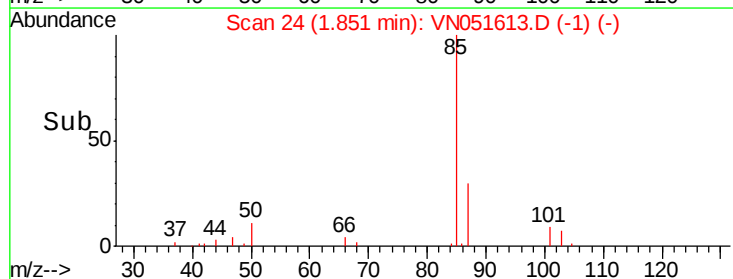
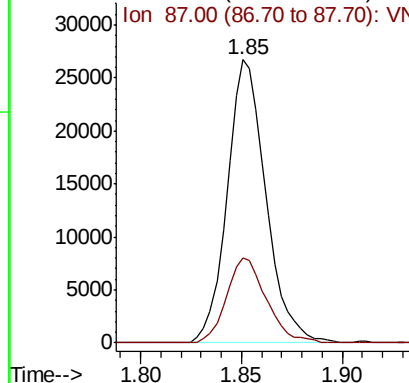
Lab File: VN051613.D

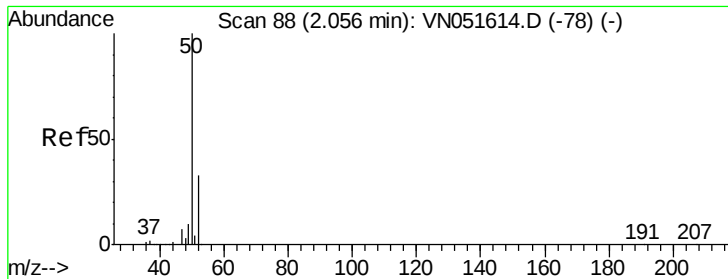
Acq: 28 Sep 2018 10:42

Tgt Ion:	85	Resp:	35817
Ion	Ratio	Lower	Upper
85	100		
87	30.1	16.3	48.8



Abundance Ion 85.00 (84.70 to 85.70): V
Ion 87.00 (86.70 to 87.70): V





#3

Chloromethane

Concen: 4.569 ug/l

RT: 2.06 min Scan# 88

Delta R.T. 0.00 min

Lab File: VN051613.D

Acq: 28 Sep 2018 10:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 50 Resp: 47866

Ion Ratio Lower Upper

50 100

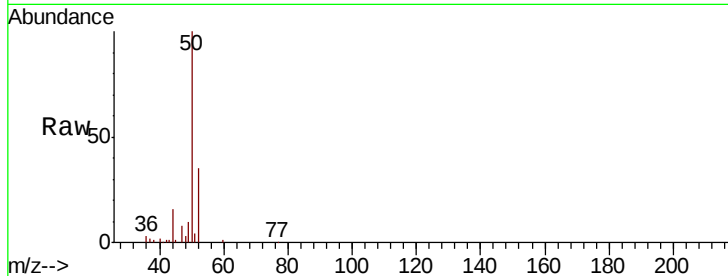
52 34.6 26.0 39.0

Manual Integrations

APPROVED

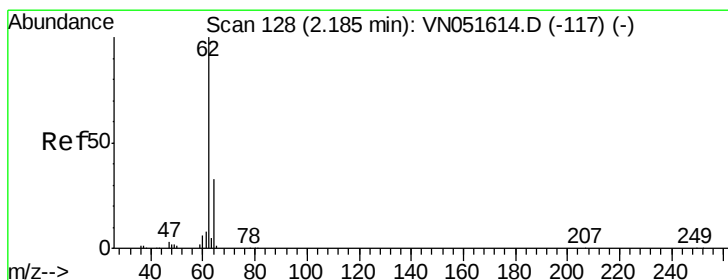
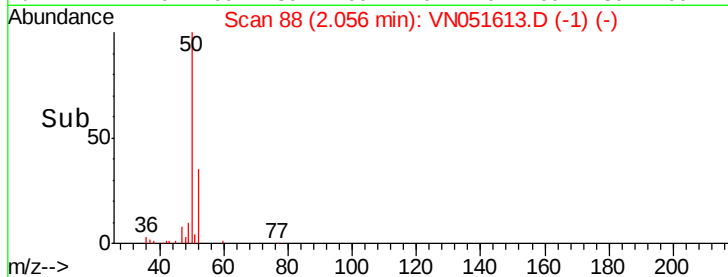
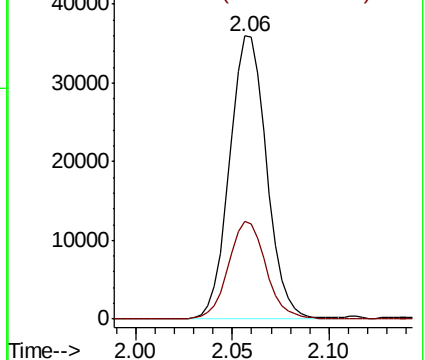
MMDadoda

10/3/2018 5:27:39 PM



Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



#4

Vinyl Chloride

Concen: 4.547 ug/l

RT: 2.18 min Scan# 128

Delta R.T. 0.00 min

Lab File: VN051613.D

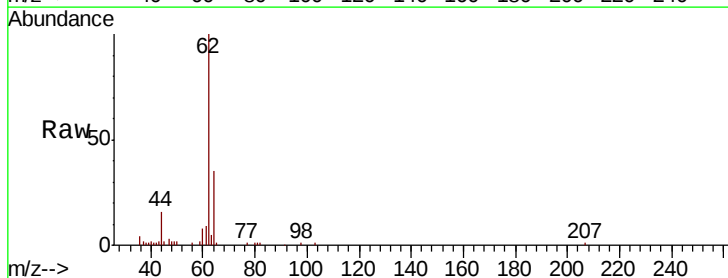
Acq: 28 Sep 2018 10:42

Tgt Ion: 62 Resp: 46725

Ion Ratio Lower Upper

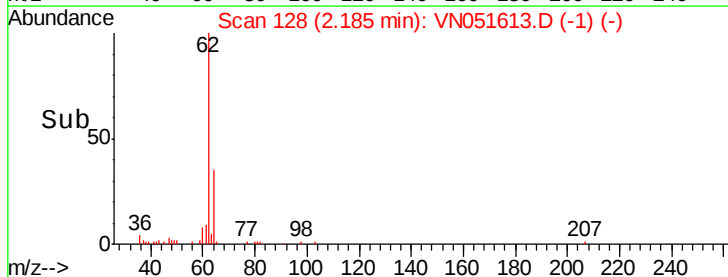
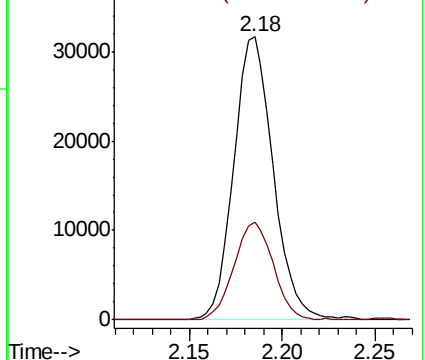
62 100

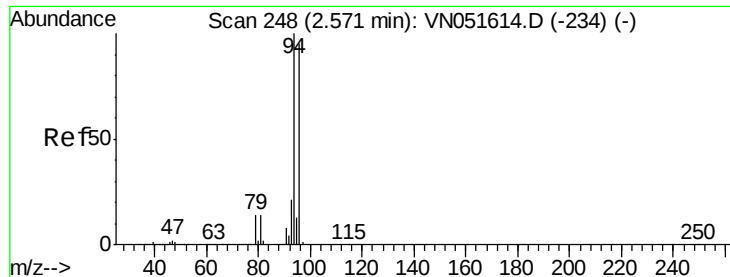
64 34.6 26.3 39.5



Abundance Ion 62.00 (61.70 to 62.70): VN0

Ion 64.00 (63.70 to 64.70): VN0





#5

Bromomethane

Concen: 5.278 ug/l

RT: 2.57 min Scan# 247

Delta R.T. -0.00 min

Lab File: VN051613.D

Acq: 28 Sep 2018 10:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 94 Resp: 28171

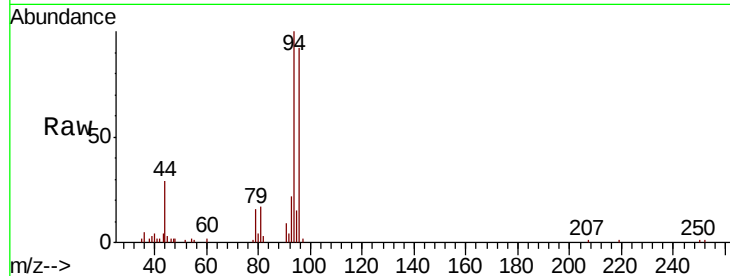
Ion Ratio Lower Upper

94 100

96 92.0 75.8 113.6

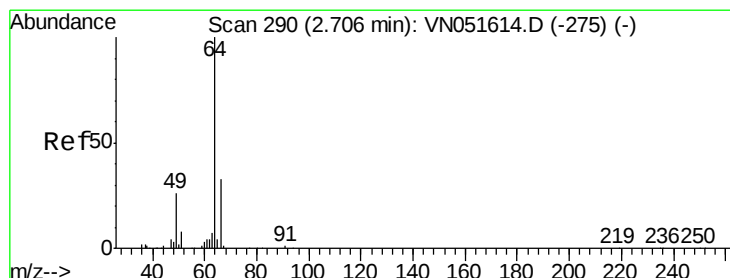
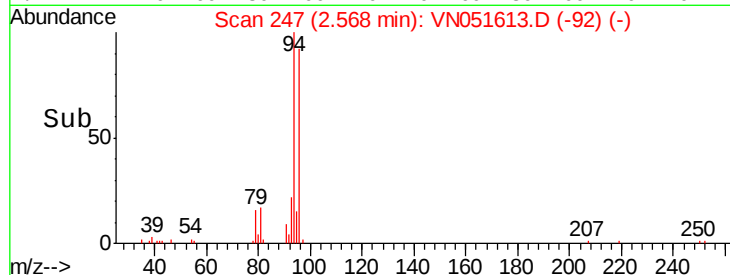
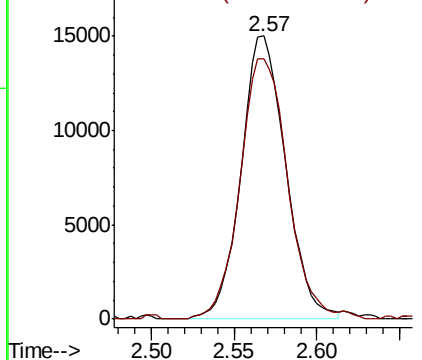
Manual Integrations
APPROVED

MMDadoda
10/3/2018 5:27:39 PM



Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0



#6

Chloroethane

Concen: 4.604 ug/l

RT: 2.71 min Scan# 290

Delta R.T. 0.00 min

Lab File: VN051613.D

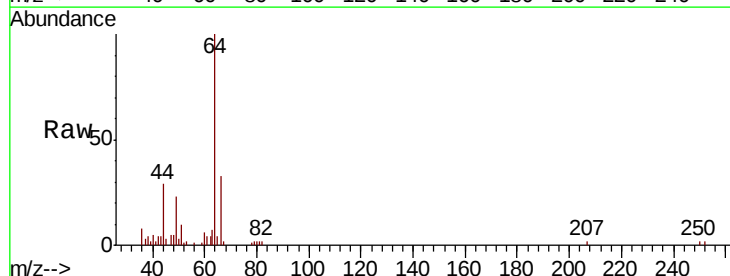
Acq: 28 Sep 2018 10:42

Tgt Ion: 64 Resp: 23734

Ion Ratio Lower Upper

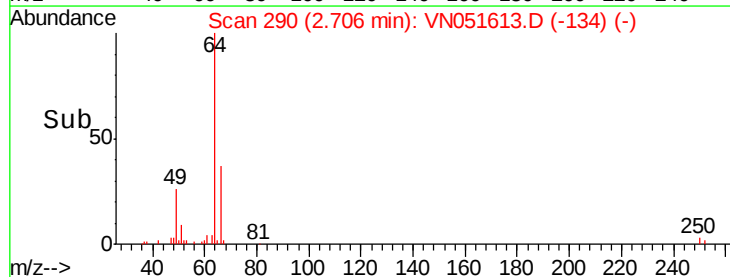
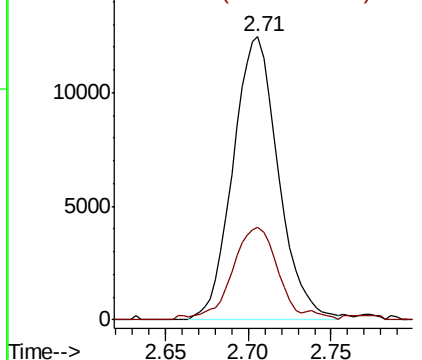
64 100

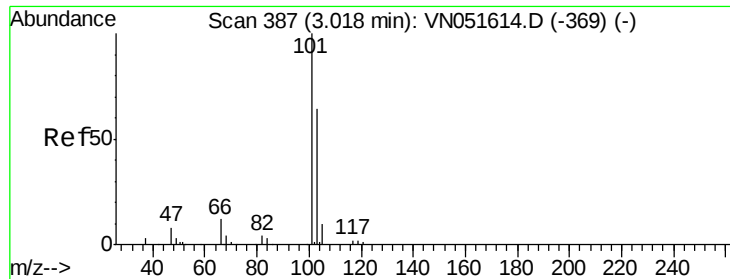
66 32.5 26.1 39.1



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0





#7

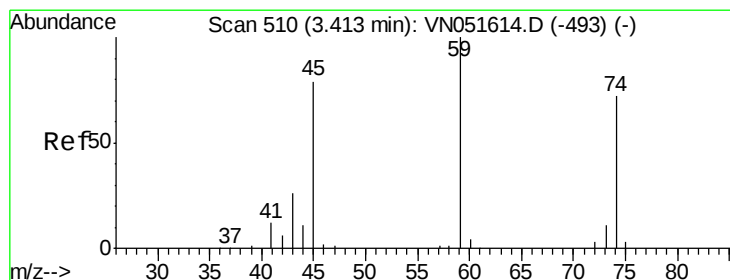
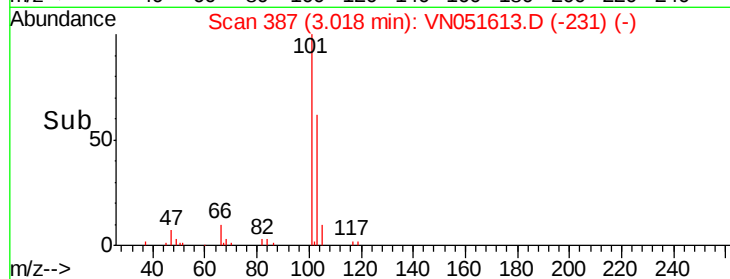
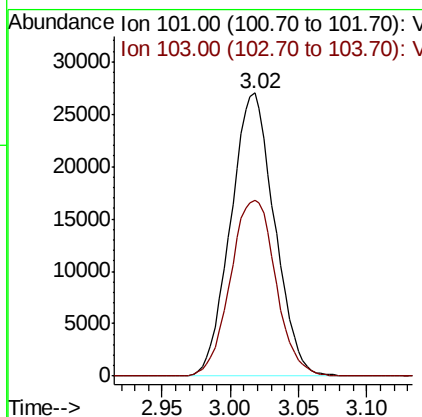
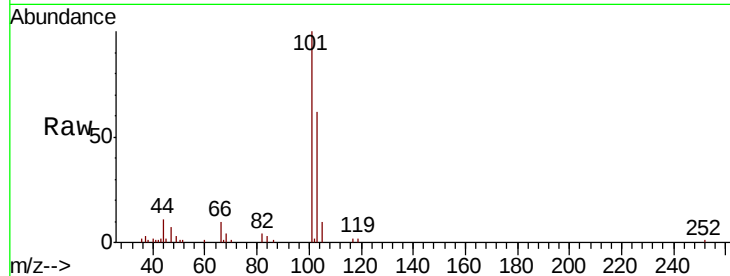
Trichlorofluoromethane
 Concen: 4.784 ug/l
 RT: 3.02 min Scan# 387
 Delta R.T. 0.00 min
 Lab File: VN051613.D
 Acq: 28 Sep 2018 10:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
101	100		
103	62.1	51.2	76.8

Manual Integrations
 APPROVED

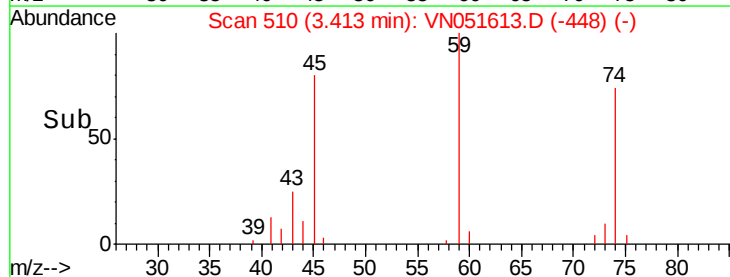
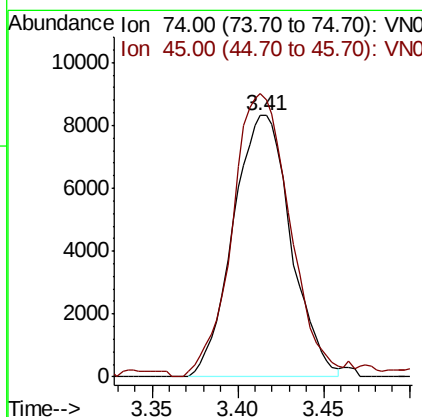
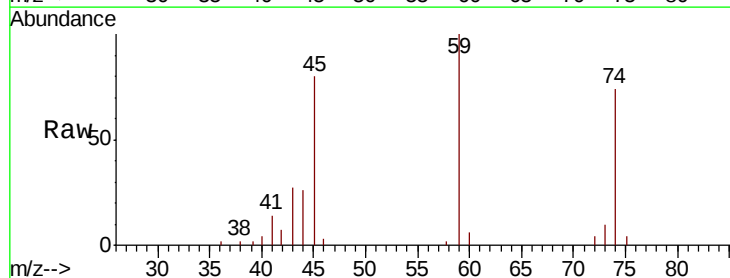
MMDadoda
 10/3/2018 5:27:39 PM

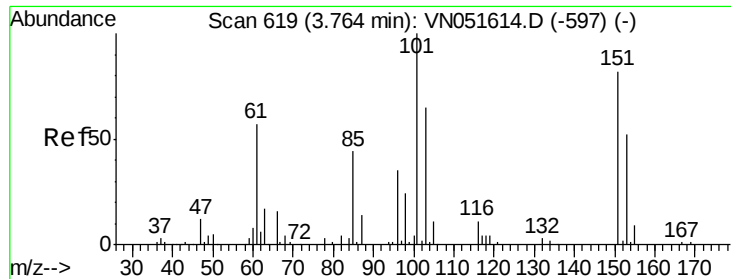


#8

Diethyl Ether
 Concen: 4.930 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VN051613.D
 Acq: 28 Sep 2018 10:42

Tgt Ion	Ratio	Lower	Upper
74	100		
45	108.1	21.3	191.5





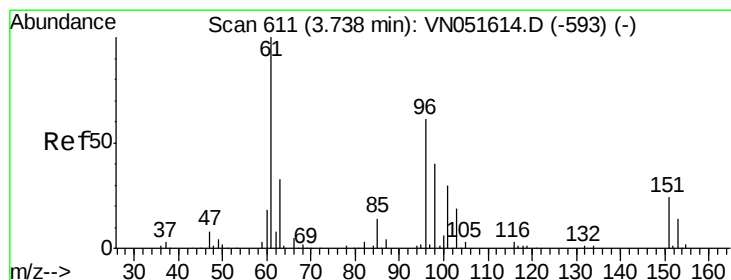
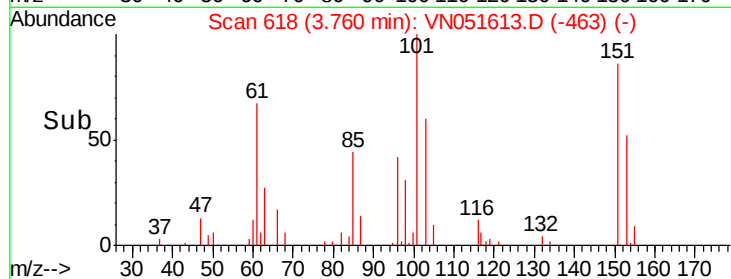
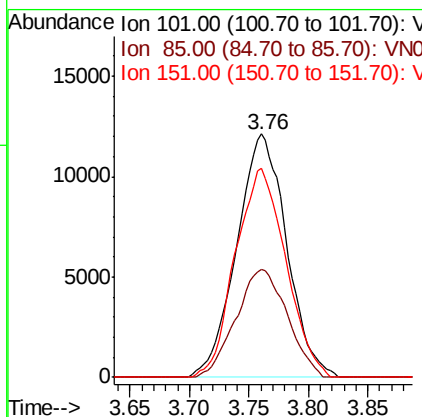
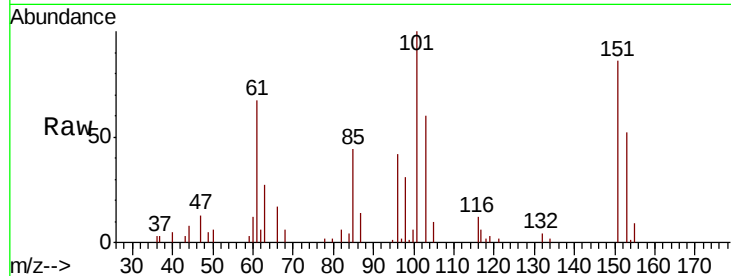
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 4.958 ug/l
 RT: 3.76 min Scan# 618
 Delta R.T. -0.00 min
 Lab File: VN051613.D
 Acq: 28 Sep 2018 10:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
101	100	35191		
85	45.5	0.0	89.4	
151	86.6	0.0	167.6	

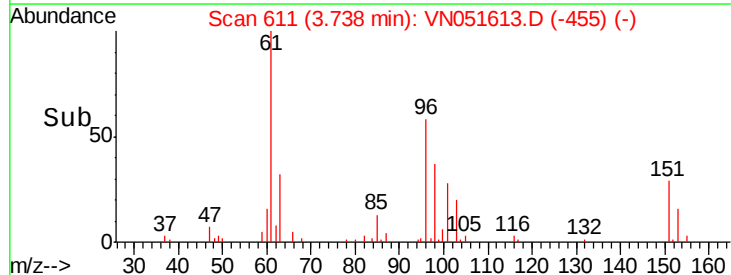
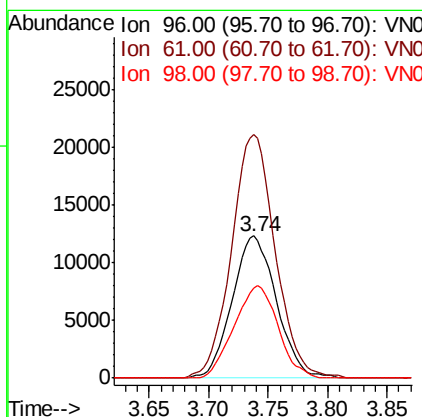
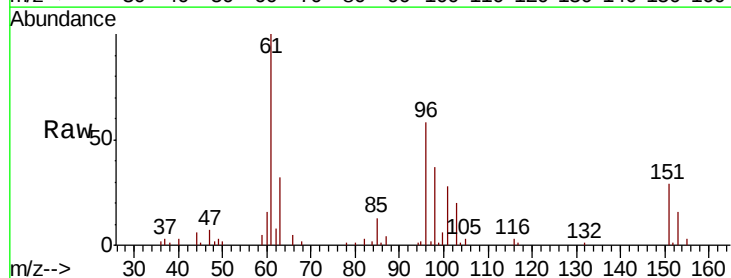
Manual Integrations
 APPROVED

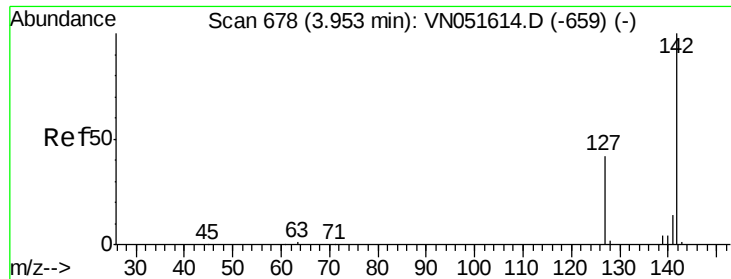
MMDadoda
 10/3/2018 5:27:39 PM



#10
 1,1-Dichloroethene
 Concen: 4.929 ug/l
 RT: 3.74 min Scan# 611
 Delta R.T. 0.00 min
 Lab File: VN051613.D
 Acq: 28 Sep 2018 10:42

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	31748		
61	169.8	131.0	196.4	
98	63.2	52.7	79.1	





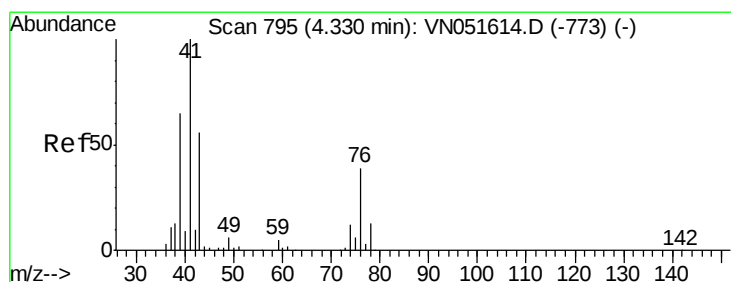
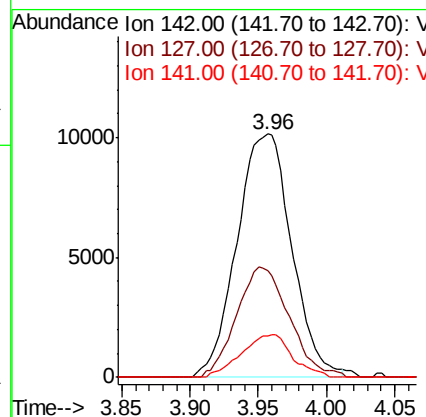
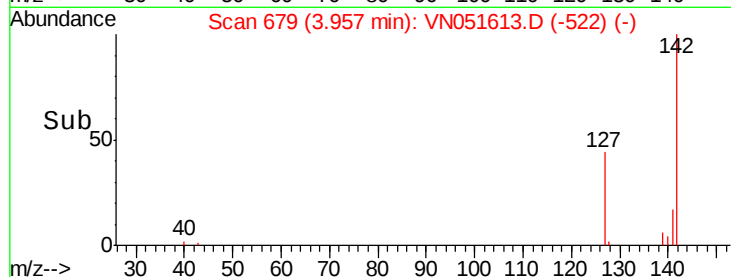
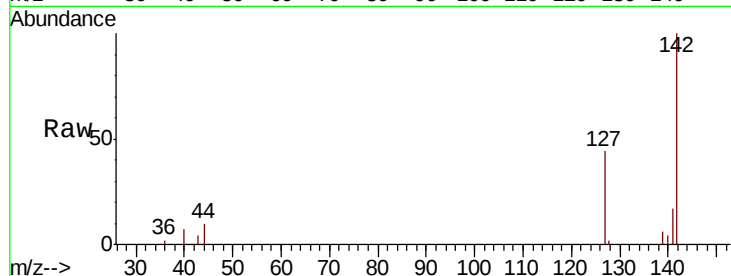
#11
Methvl Iodide
Concen: 3.414 ug/l
RT: 3.96 min Scan# 679
Delta R.T. 0.00 min
Lab File: VN051613.D
Acq: 28 Sep 2018 10:42

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
142	100		
127	43.4	21.1	63.1
141	17.2	7.1	21.4

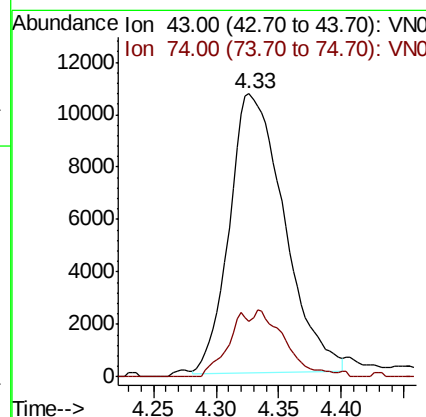
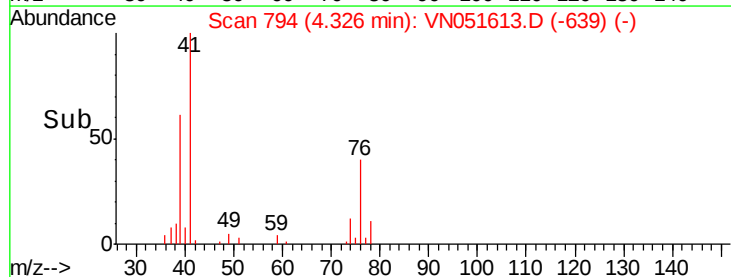
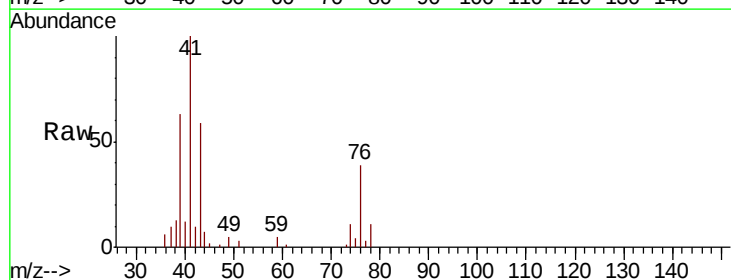
Manual Integrations
APPROVED

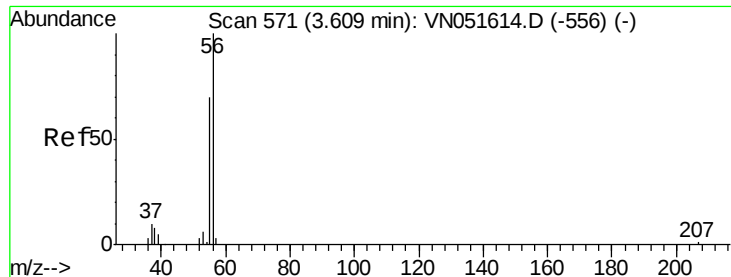
MMDadoda
10/3/2018 5:27:39 PM



#12
Methyl Acetate
Concen: 5.719 ug/l
RT: 4.33 min Scan# 794
Delta R.T. -0.00 min
Lab File: VN051613.D
Acq: 28 Sep 2018 10:42

Tgt Ion	Ratio	Lower	Upper
43	100		
74	19.3	17.0	25.4





#13

Acrolein

Concen: 26.102 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN051613.D

Acq: 28 Sep 2018 10:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 56 Resp: 16392

Ion Ratio Lower Upper

56 100

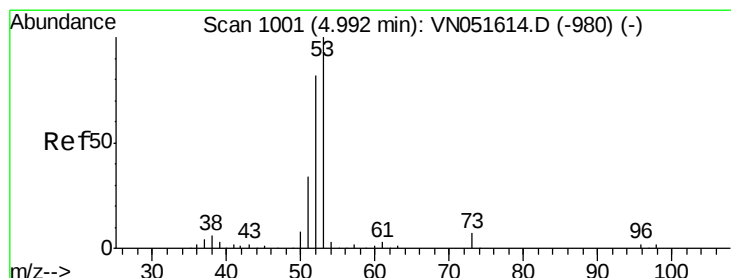
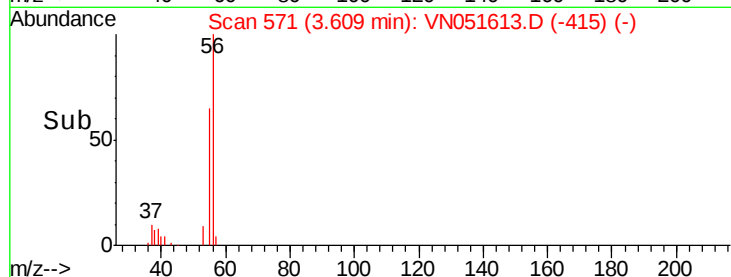
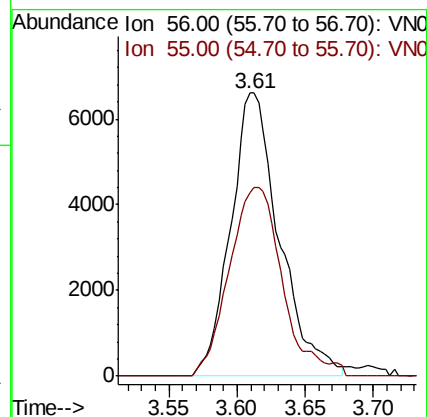
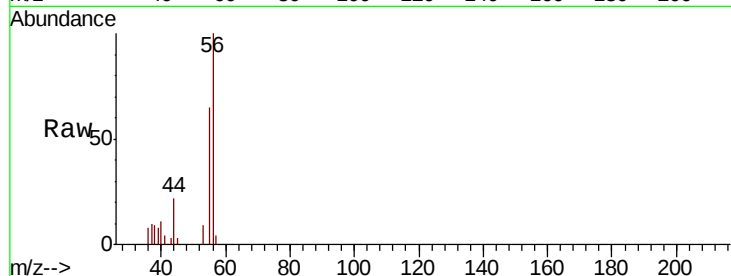
55 69.3 55.8 83.8

Manual Integrations

APPROVED

MMDadoda

10/3/2018 5:27:39 PM



#14

Acrylonitrile

Concen: 23.983 ug/l

RT: 5.00 min Scan# 1002

Delta R.T. 0.00 min

Lab File: VN051613.D

Acq: 28 Sep 2018 10:42

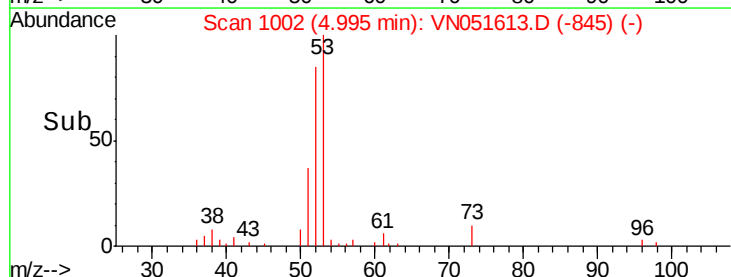
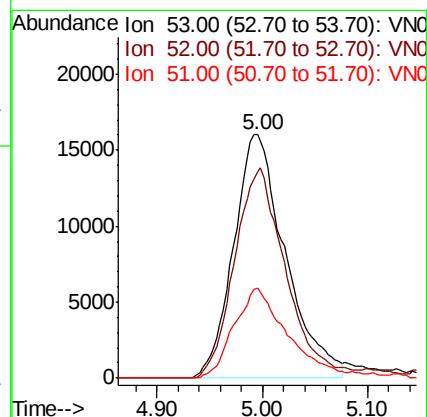
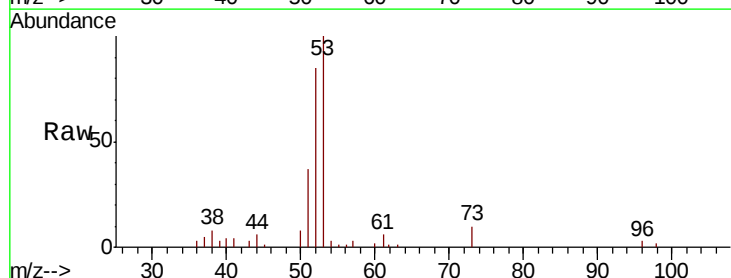
Tgt Ion: 53 Resp: 54596

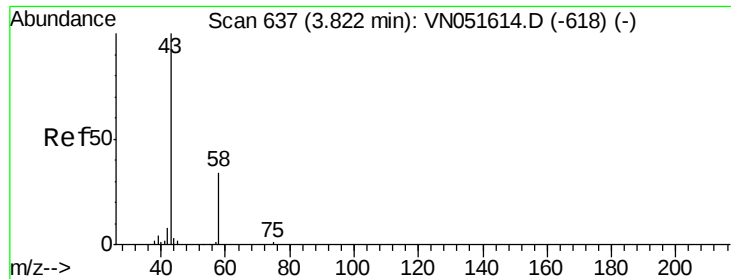
Ion Ratio Lower Upper

53 100

52 84.2 41.3 123.7

51 38.1 17.1 51.2





#15

Acetone

Concen: 25.197 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN051613.D

Acq: 28 Sep 2018 10:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 58 Resp: 15039

Ion Ratio Lower Upper

58 100

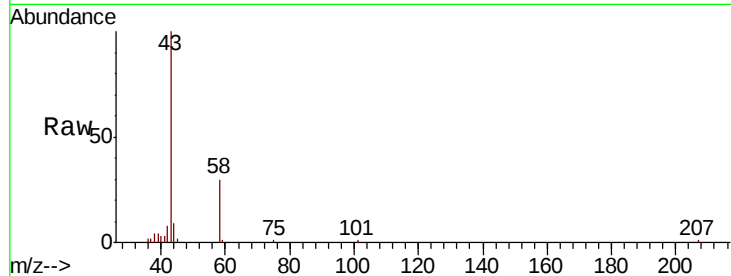
43 326.9 238.0 357.0

Manual Integrations

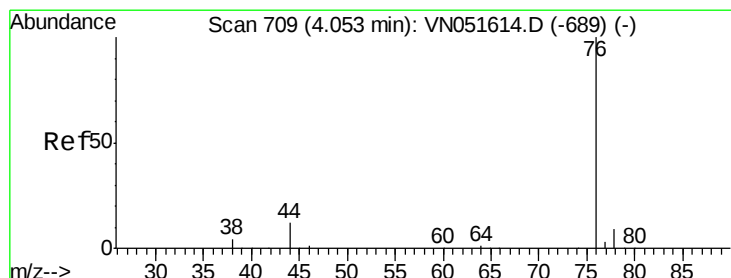
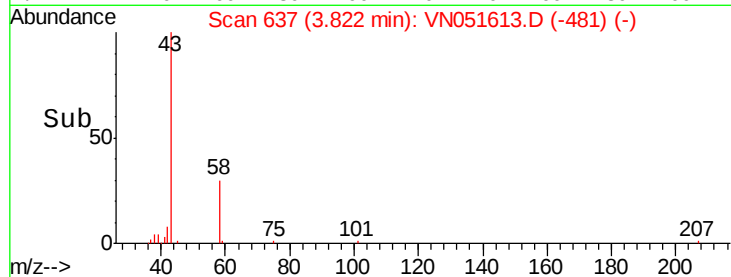
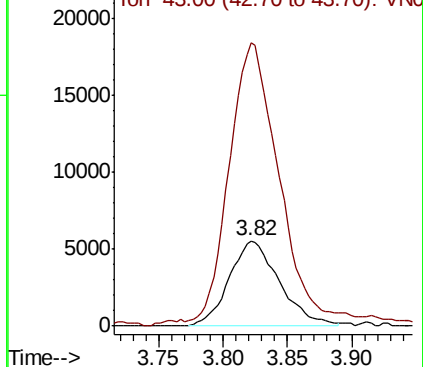
APPROVED

MMDadoda

10/3/2018 5:27:39 PM



Abundance Ion 58.00 (57.70 to 58.70): VN051613.D (-481) (-)



#16

Carbon Disulfide

Concen: 5.211 ug/l

RT: 4.06 min Scan# 710

Delta R.T. 0.00 min

Lab File: VN051613.D

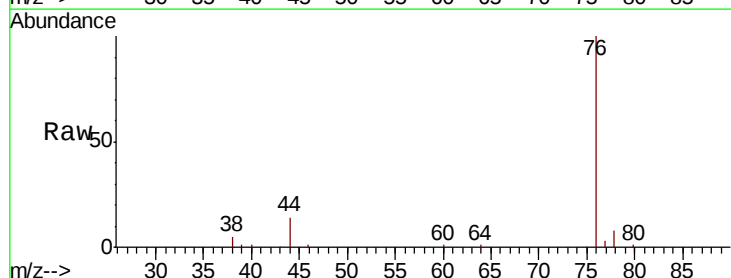
Acq: 28 Sep 2018 10:42

Tgt Ion: 76 Resp: 108157

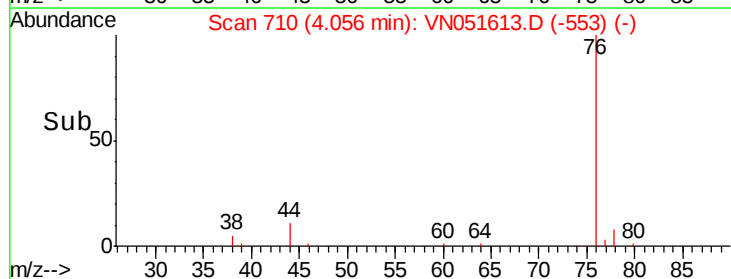
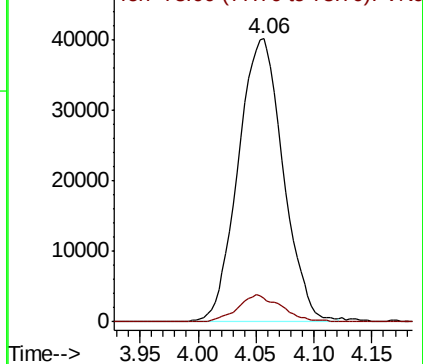
Ion Ratio Lower Upper

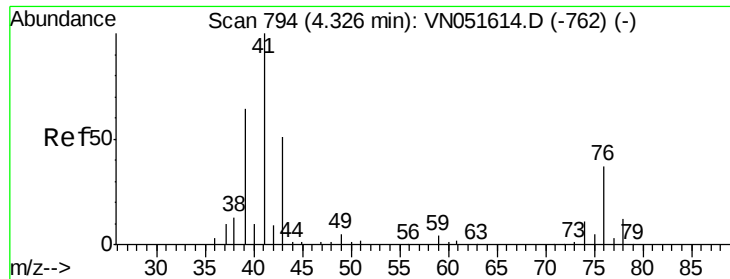
76 100

78 8.5 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VN051613.D (-553) (-)





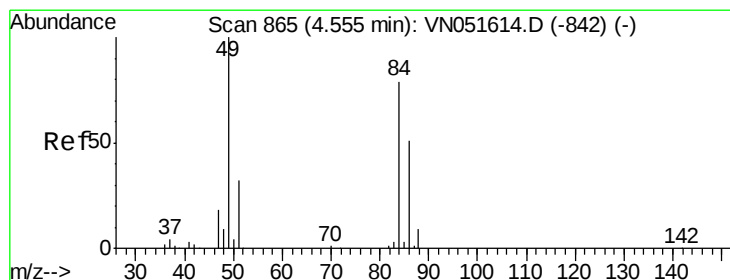
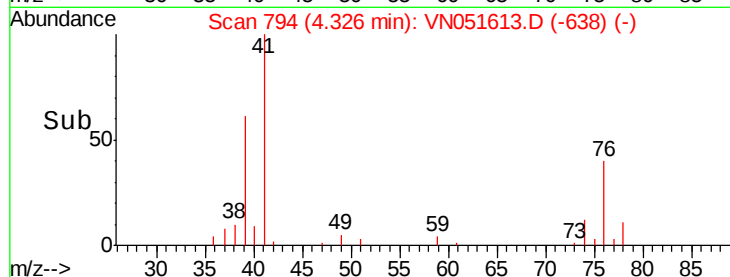
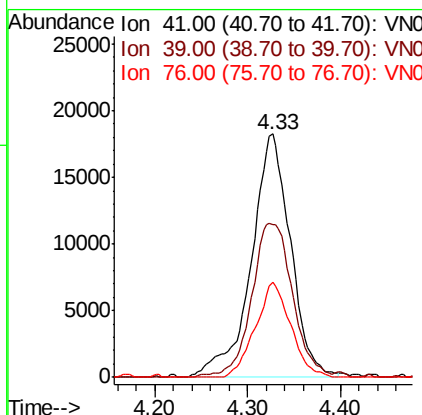
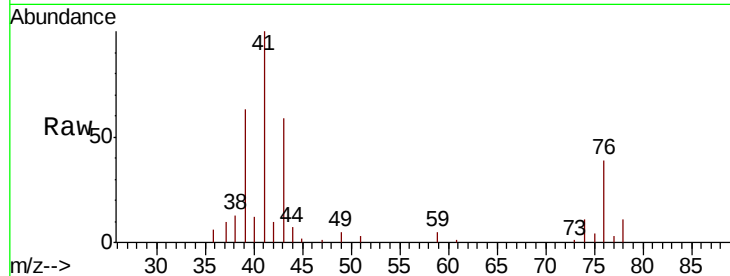
#17
Allvl chloride
Concen: 4.671 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN051613.D
Acq: 28 Sep 2018 10:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion:	41	Resp:	53819
Ion	Ratio	Lower	Upper
41	100		
39	63.0	31.9	95.9
76	38.8	18.6	56.0

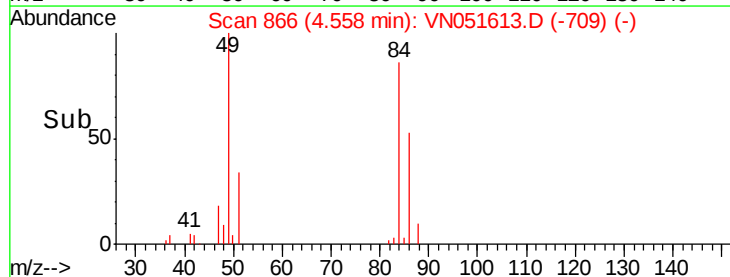
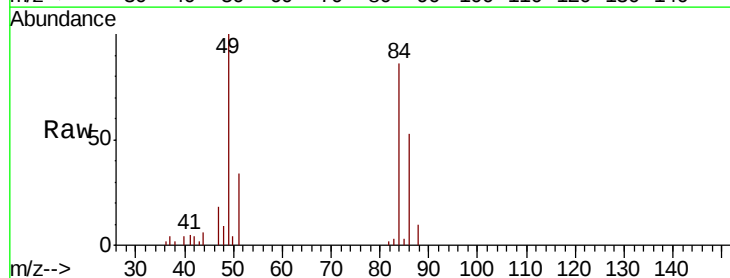
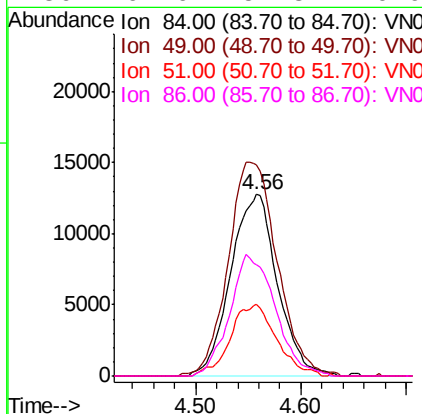
Manual Integrations
APPROVED

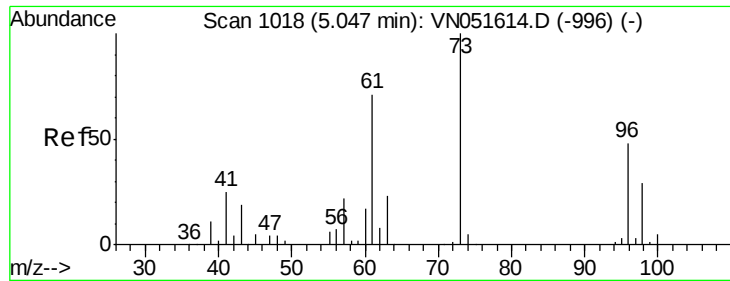
MMDadoda
10/3/2018 5:27:39 PM



#18
Methylene Chloride
Concen: 5.305 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN051613.D
Acq: 28 Sep 2018 10:42

Tgt Ion:	84	Resp:	39282
Ion	Ratio	Lower	Upper
84	100		
49	115.0	100.9	151.3
51	39.8	32.5	48.7
86	61.6	51.3	76.9





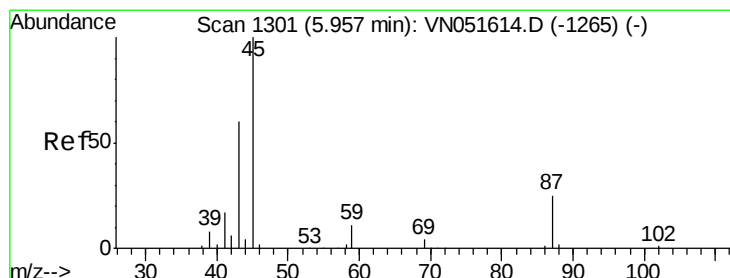
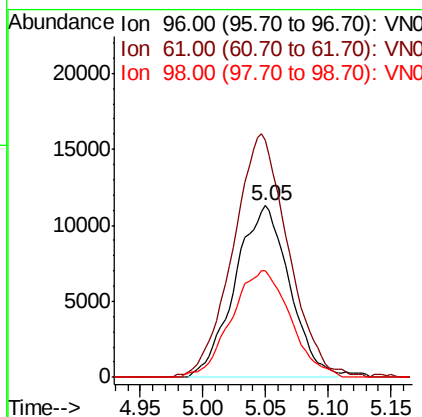
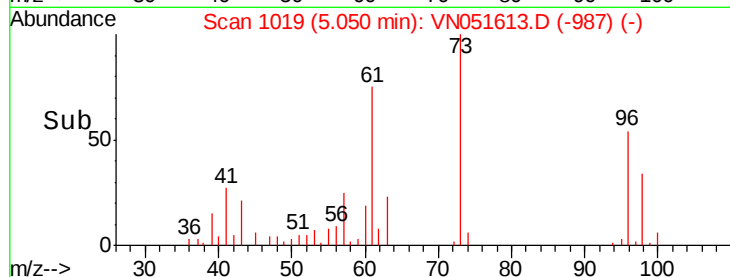
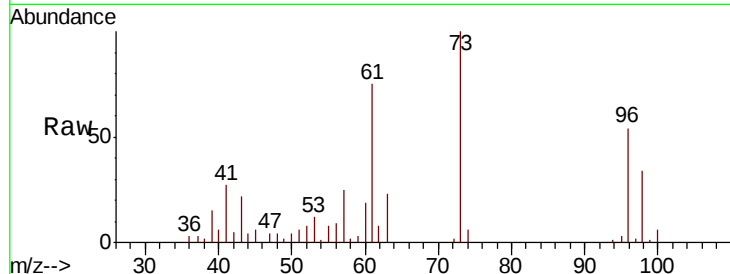
#19
trans-1,2-Dichloroethene
Concen: 4.972 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. 0.00 min
Lab File: VN051613.D
Acq: 28 Sep 2018 10:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
96	100		
61	135.1	118.0	177.0
98	60.0	49.0	73.4

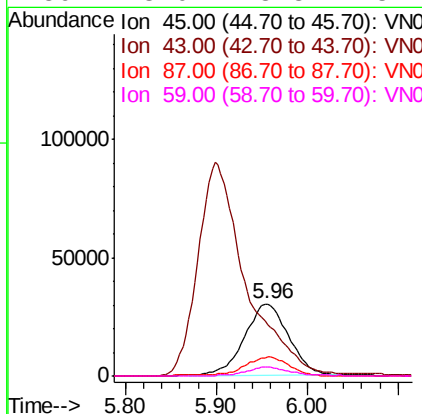
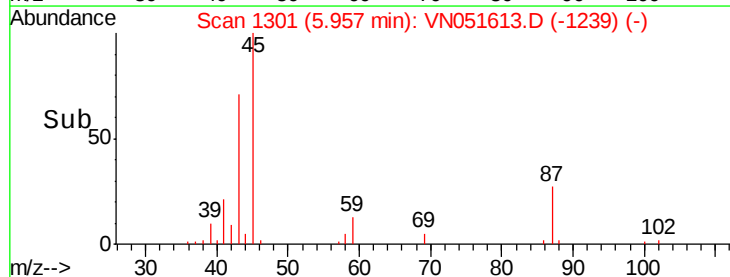
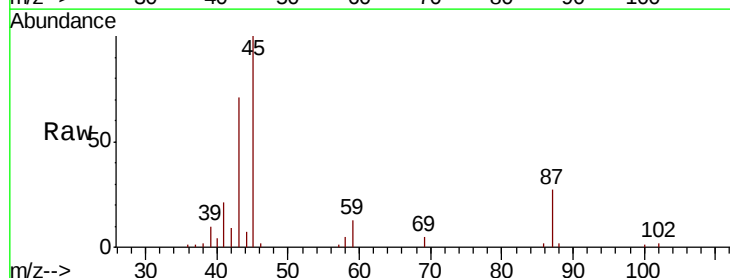
Manual Integrations
APPROVED

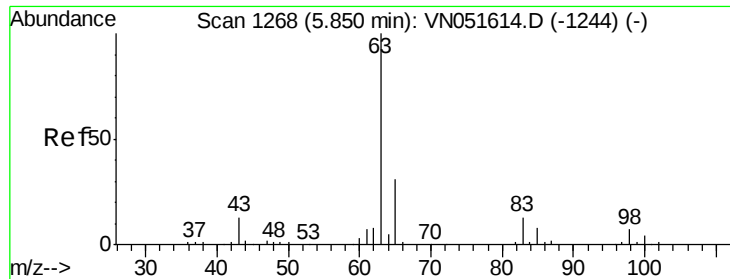
MMDadoda
10/3/2018 5:27:39 PM



#20
Diisopropyl ether
Concen: 4.477 ug/l
RT: 5.96 min Scan# 1301
Delta R.T. 0.00 min
Lab File: VN051613.D
Acq: 28 Sep 2018 10:42

Tgt Ion	Ratio	Lower	Upper
45	100		
43	67.5	48.3	72.5
87	27.1	20.8	31.2
59	13.0	8.8	13.2





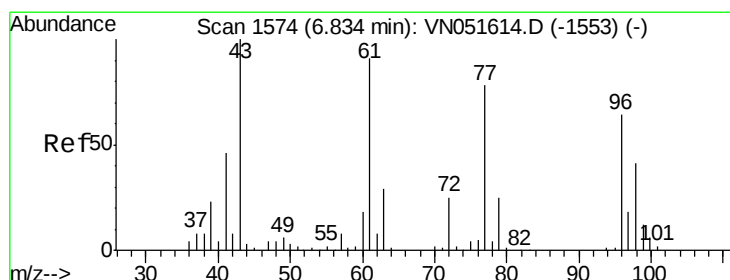
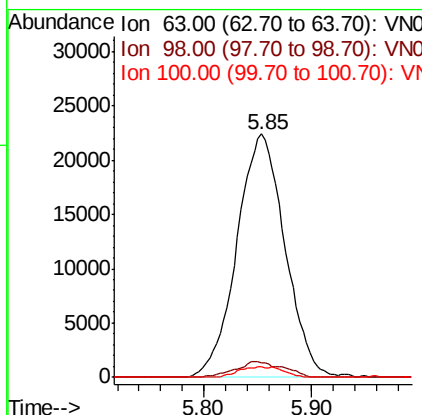
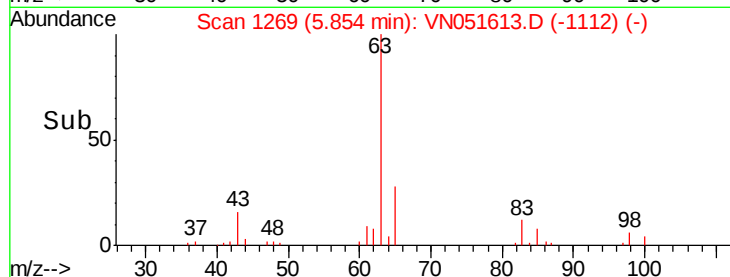
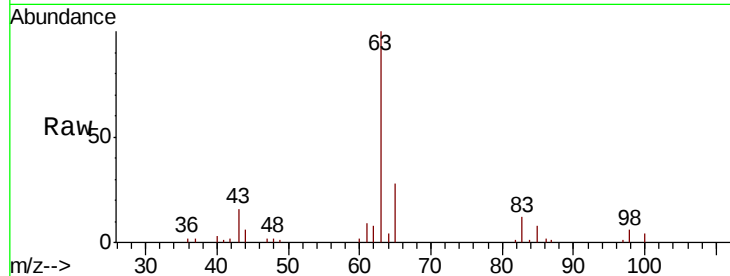
#21
 1,1-Dichloroethane
 Concen: 5.109 ug/l
 RT: 5.85 min Scan# 1269
 Delta R.T. 0.00 min
 Lab File: VN051613.D
 Acq: 28 Sep 2018 10:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion:	63	Resp:	69206
Ion	Ratio	Lower	Upper
63	100		
98	6.1	3.3	9.9
100	4.3	2.0	5.8

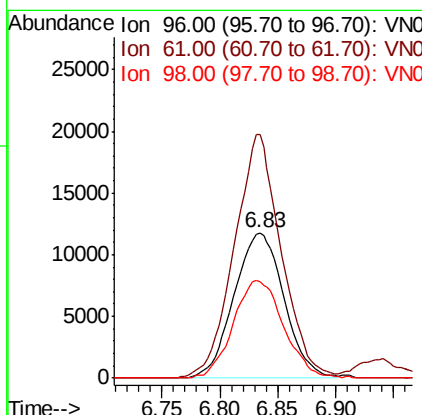
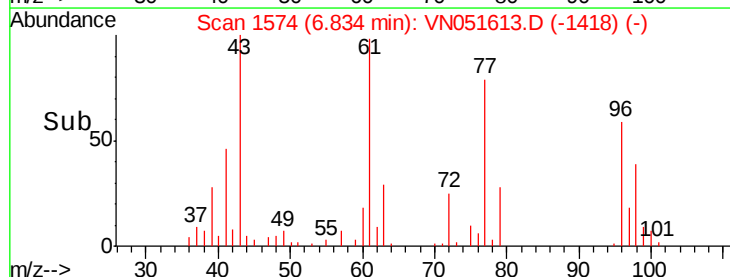
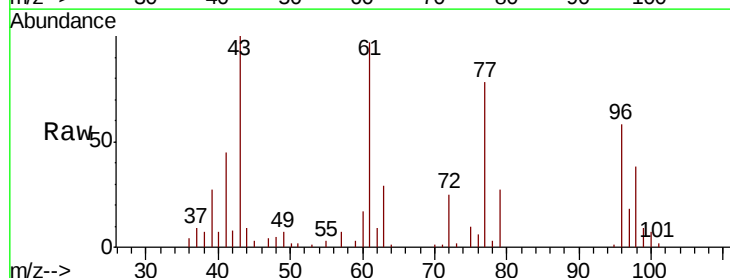
Manual Integrations
 APPROVED

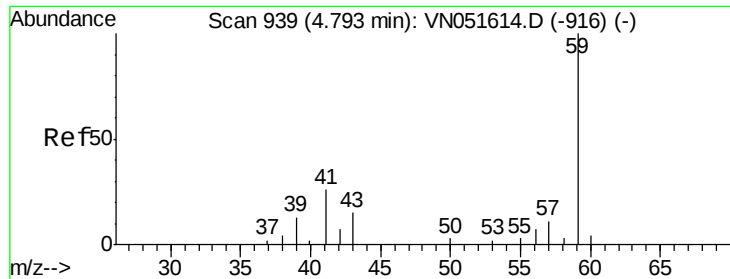
MMDadoda
 10/3/2018 5:27:39 PM



#22
 cis-1,2-Dichloroethene
 Concen: 4.716 ug/l
 RT: 6.83 min Scan# 1574
 Delta R.T. 0.00 min
 Lab File: VN051613.D
 Acq: 28 Sep 2018 10:42

Tgt Ion:	96	Resp:	35210
Ion	Ratio	Lower	Upper
96	100		
61	157.5	120.4	180.6
98	67.7	51.4	77.0





#23

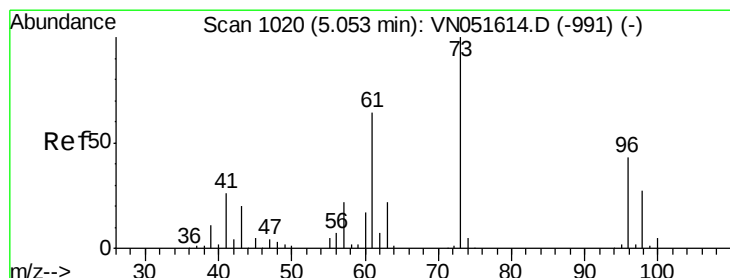
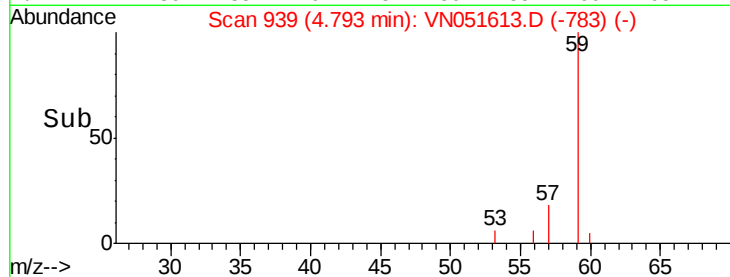
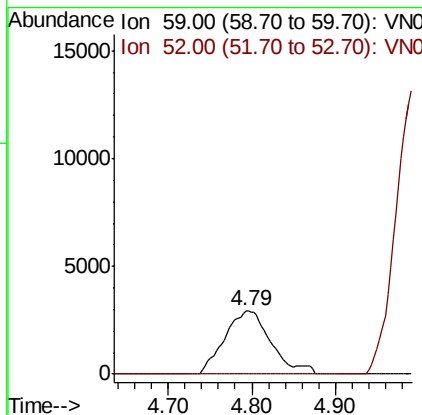
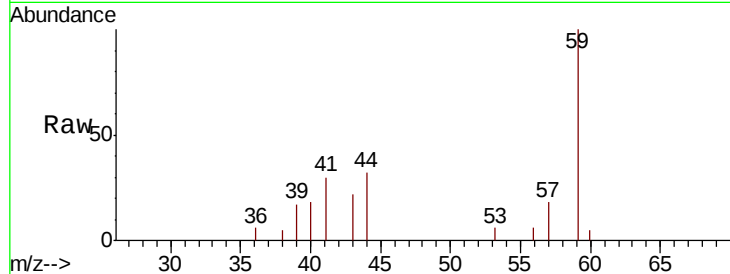
tert-Butyl Alcohol
 Concen: 26.134 ug/l m
 RT: 4.79 min Scan# 939
 Delta R.T. 0.00 min
 Lab File: VN051613.D
 Acq: 28 Sep 2018 10:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	59	52	Ratio	100	0.0	Resp:	11337	Lower	Upper
Ion	59	52	Ratio	100	0.0	Resp:	11337	Lower	Upper

Manual Integrations
 APPROVED

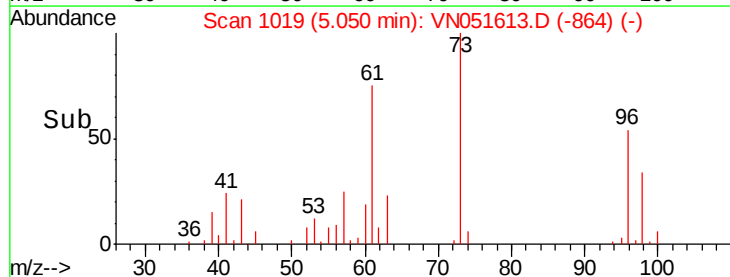
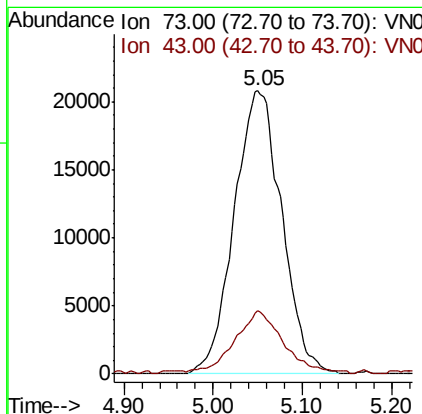
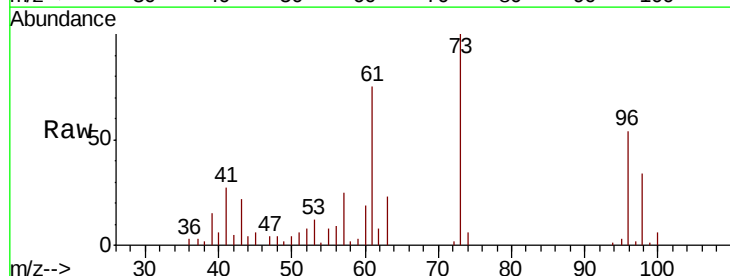
MMDadoda
 10/3/2018 5:27:39 PM

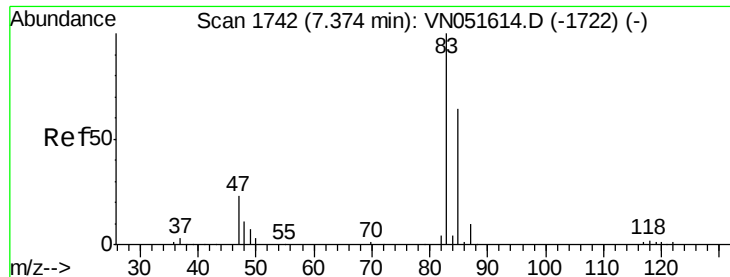


#24

Methyl tert-Butyl Ether
 Concen: 4.565 ug/l
 RT: 5.05 min Scan# 1019
 Delta R.T. -0.00 min
 Lab File: VN051613.D
 Acq: 28 Sep 2018 10:42

Tgt Ion	73	43	Ratio	100	22.2	Resp:	77277	Lower	Upper
Ion	73	43	Ratio	100	22.2	Resp:	77277	Lower	Upper





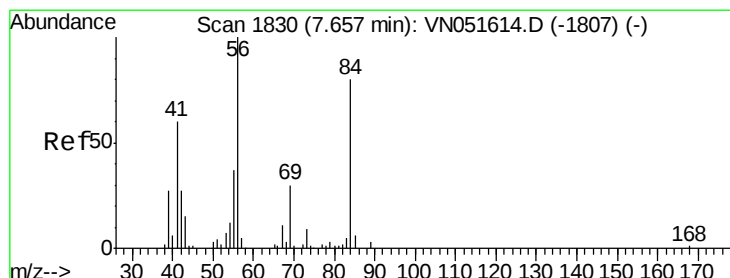
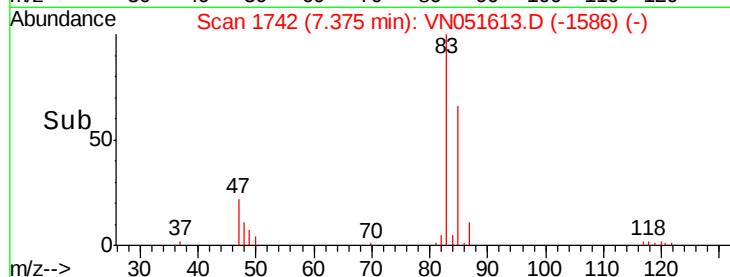
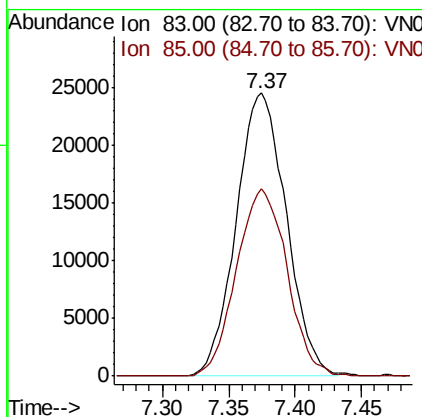
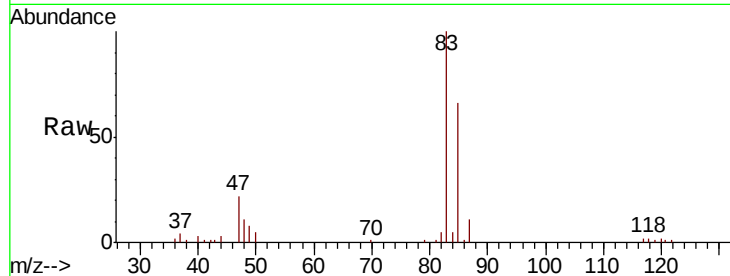
#25
Chloroform
Concen: 4.987 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN051613.D
Acq: 28 Sep 2018 10:42

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion	83	Resp	64591
Ion Ratio	100	Lower	Upper
83	100		
85	66.4	51.4	77.0

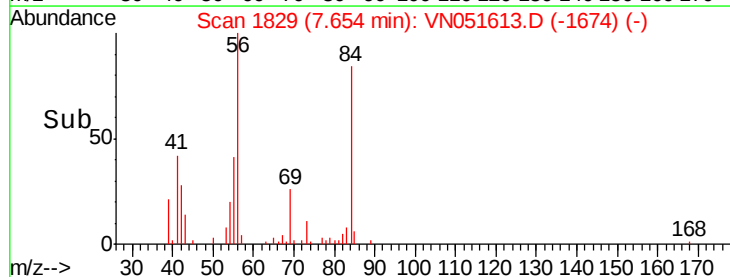
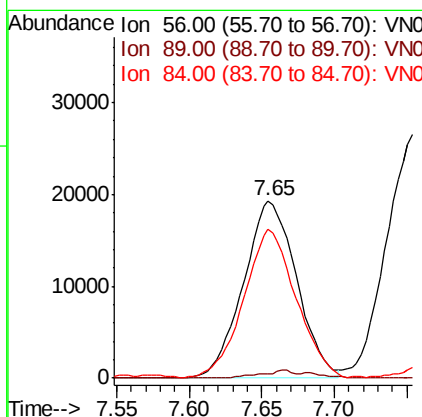
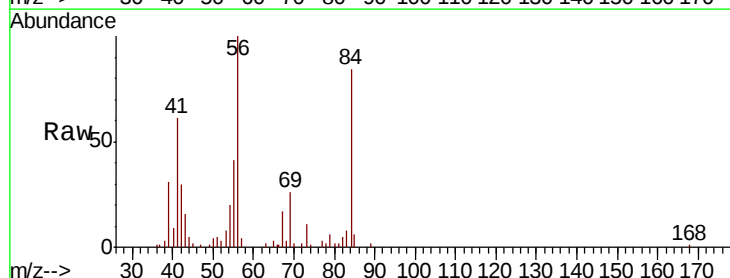
Manual Integrations
APPROVED

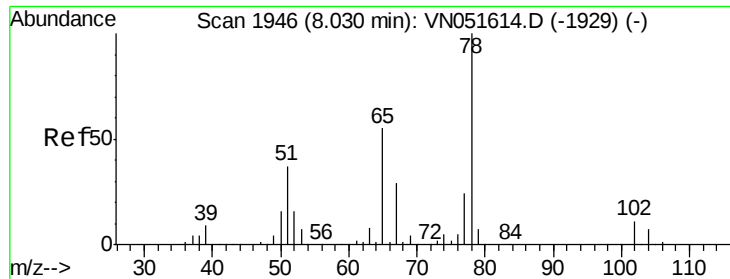
MMDadoda
10/3/2018 5:27:39 PM



#26
Cyclohexane
Concen: 4.197 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. -0.00 min
Lab File: VN051613.D
Acq: 28 Sep 2018 10:42

Tgt Ion	56	Resp	49201
Ion Ratio	100	Lower	Upper
56	100		
89	2.9	2.2	3.2
84	82.9	65.0	97.4





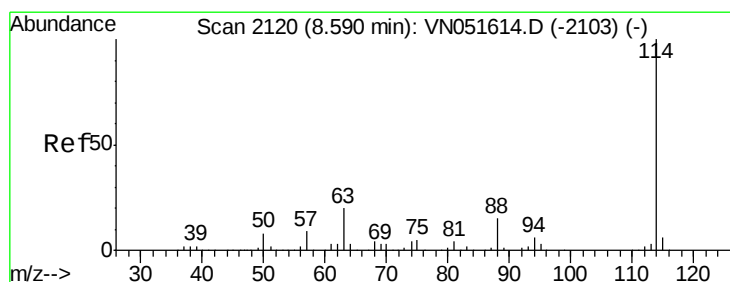
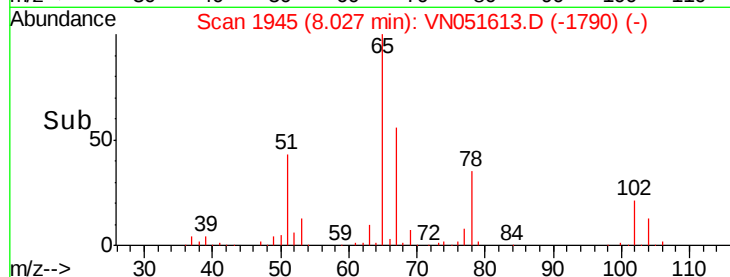
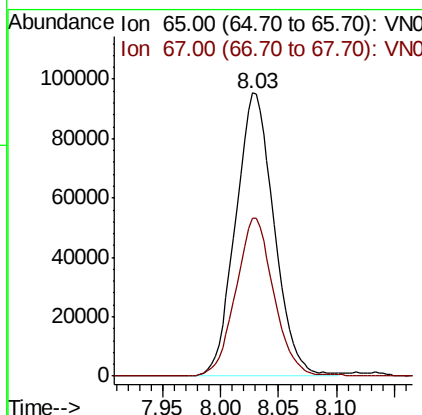
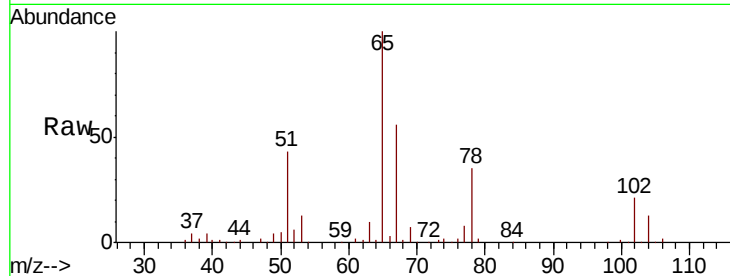
#27
 1,2-Dichloroethane-d4
 Concen: 4.197 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN051613.D
 Acq: 28 Sep 2018 10:42

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC005

Tot Ion: 65 Resp: 220156
 Ion Ratio Lower Upper
 65 100
 67 54.9 43.1 64.7

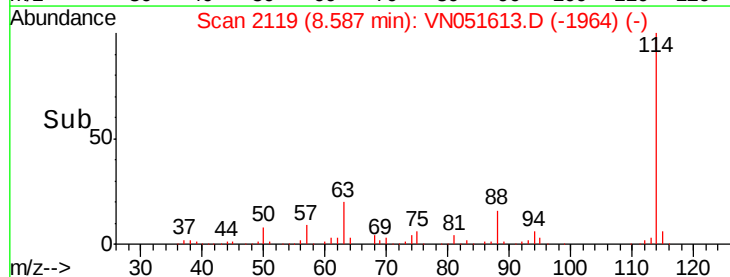
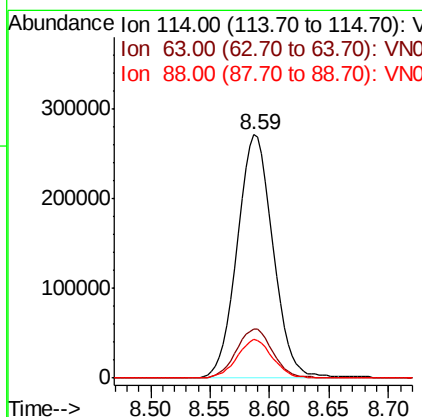
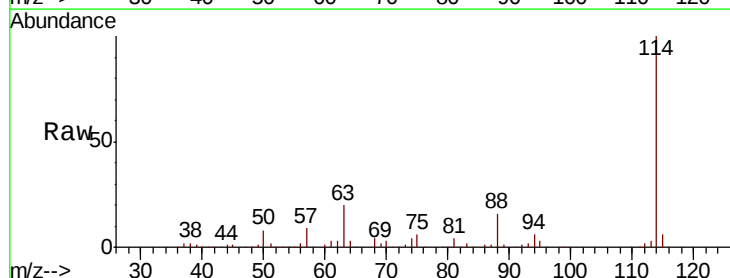
Manual Integrations
 APPROVED

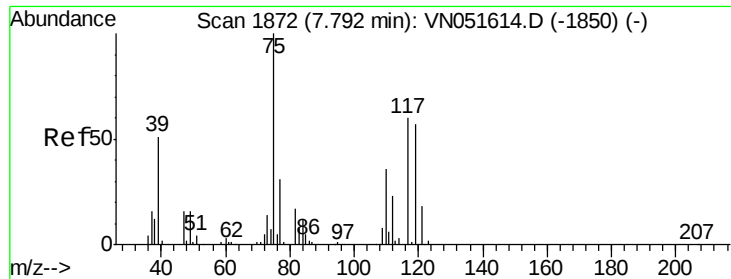
MMDadoda
 10/3/2018 5:27:39 PM



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051613.D
 Acq: 28 Sep 2018 10:42

Tgt Ion: 114 Resp: 565511
 Ion Ratio Lower Upper
 114 100
 63 20.7 16.4 24.6
 88 15.7 12.6 18.8





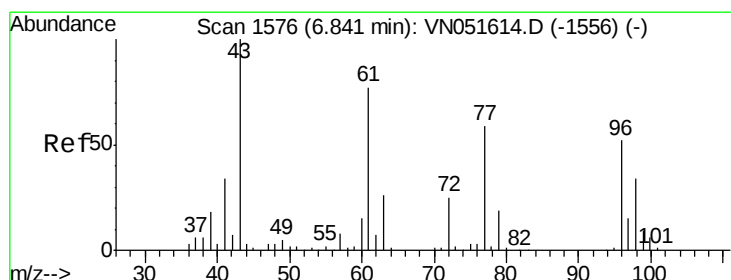
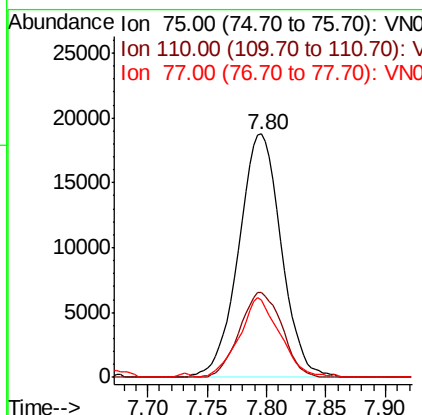
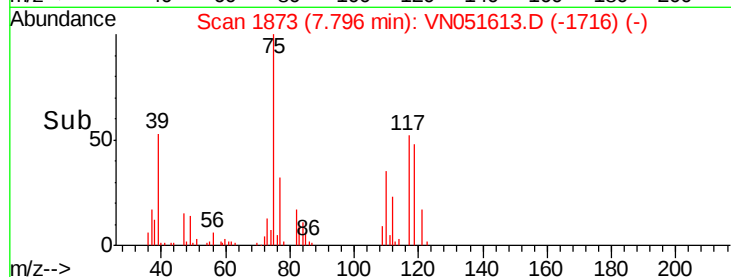
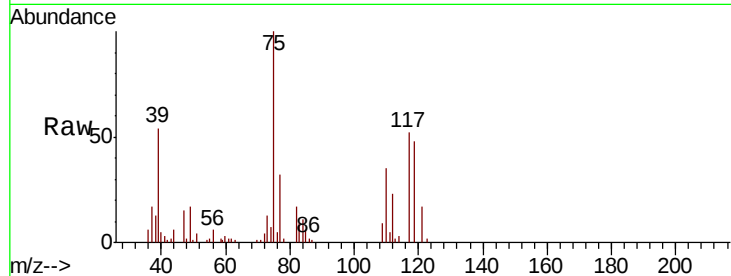
#29
 1,1-Dichloropropene
 Concen: 4.828 ug/l
 RT: 7.80 min Scan# 1873
 Delta R.T. 0.00 min
 Lab File: VN051613.D
 Acq: 28 Sep 2018 10:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
75	100		
110	34.7	0.0	71.0
77	31.3	0.0	62.4

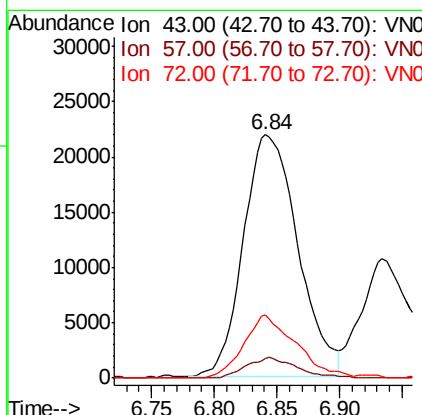
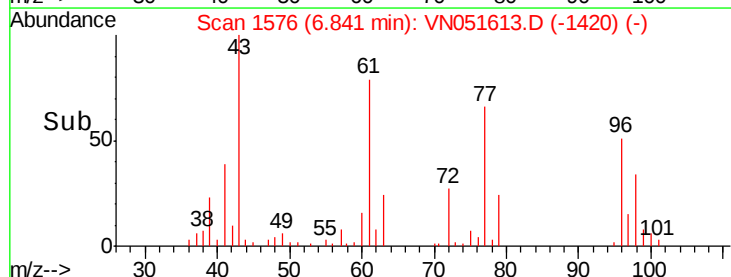
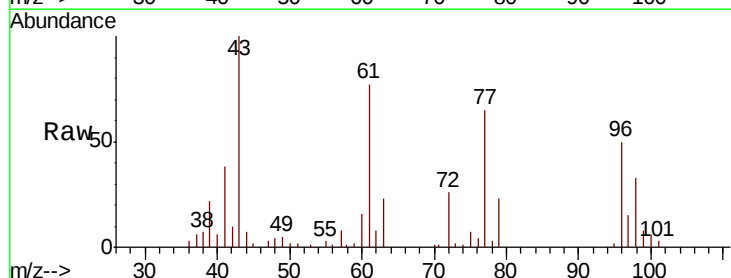
Manual Integrations
 APPROVED

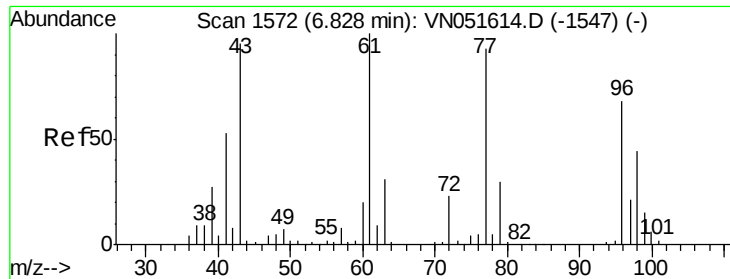
MMDadoda
 10/3/2018 5:27:39 PM



#30
 2-Butanone
 Concen: 25.220 ug/l
 RT: 6.84 min Scan# 1576
 Delta R.T. 0.00 min
 Lab File: VN051613.D
 Acq: 28 Sep 2018 10:42

Tgt Ion	Ratio	Lower	Upper
43	100		
57	7.5	6.6	10.0
72	25.0	20.8	31.2





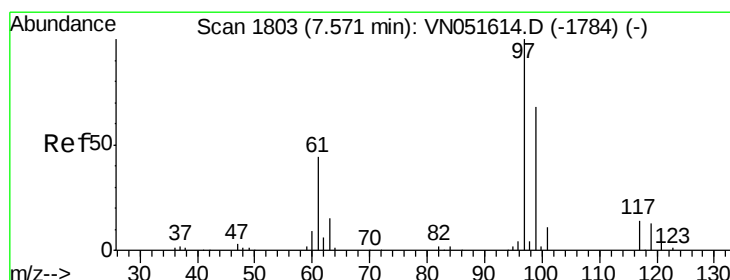
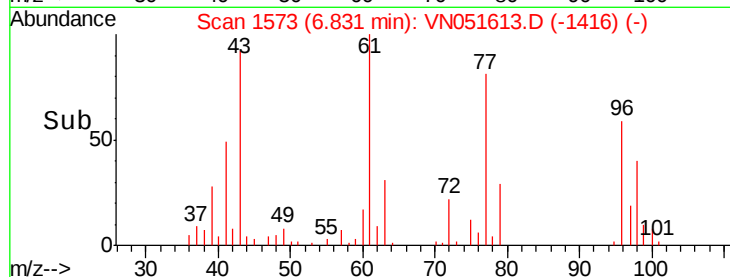
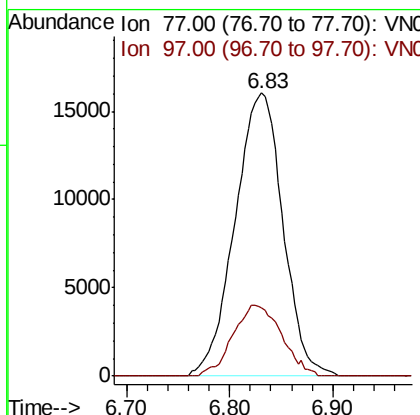
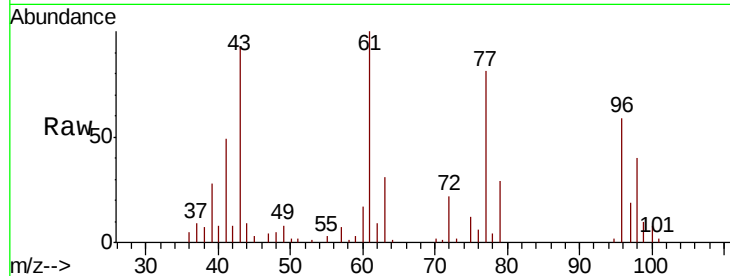
#31
 2,2-Dichloropropane
 Concen: 4.977 ug/l
 RT: 6.83 min Scan# 1573
 Delta R.T. 0.00 min
 Lab File: VN051613.D
 Acq: 28 Sep 2018 10:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion: 77 Resp: 51796
 Ion Ratio Lower Upper
 77 100
 97 25.3 18.6 28.0

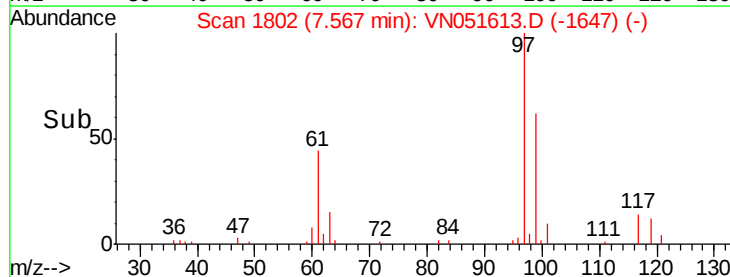
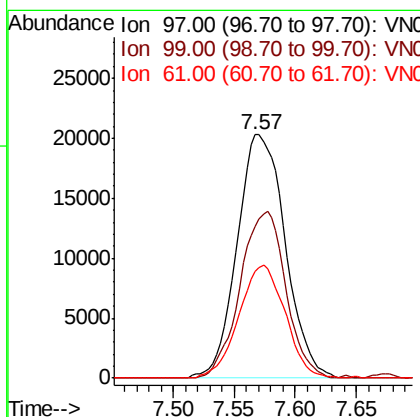
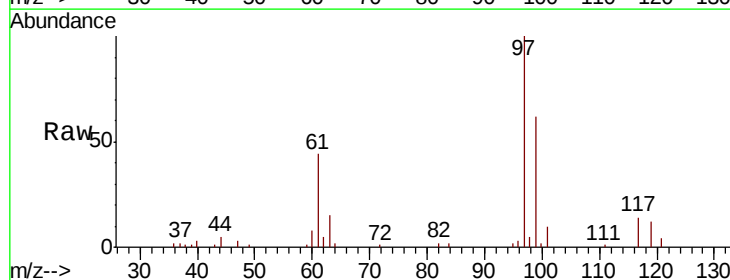
Manual Integrations
 APPROVED

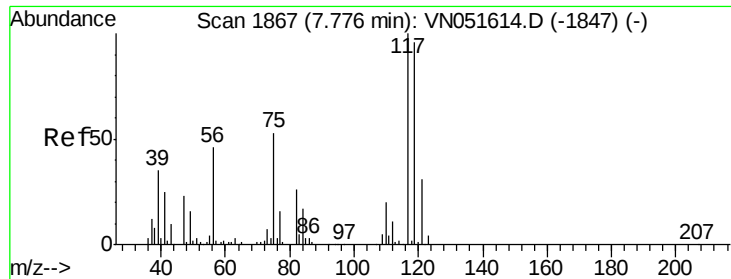
MMDadoda
 10/3/2018 5:27:39 PM



#32
 1,1,1-Trichloroethane
 Concen: 5.125 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. -0.00 min
 Lab File: VN051613.D
 Acq: 28 Sep 2018 10:42

Tgt Ion: 97 Resp: 55529
 Ion Ratio Lower Upper
 97 100
 99 64.9 52.2 78.4
 61 44.6 36.2 54.4





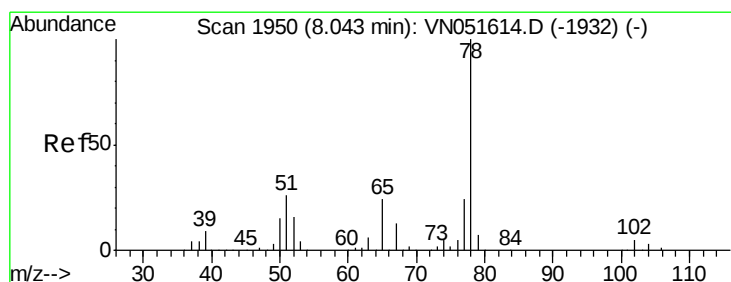
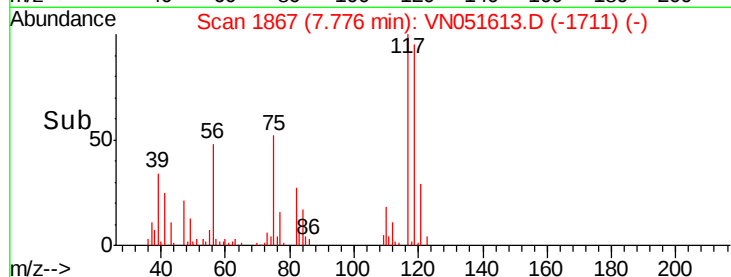
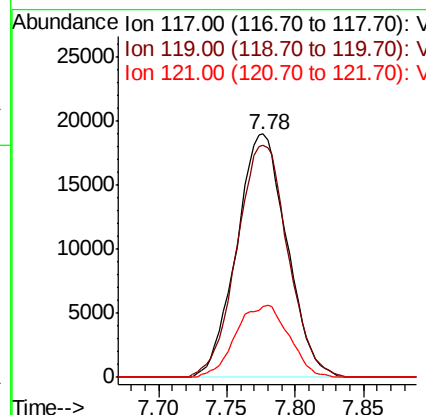
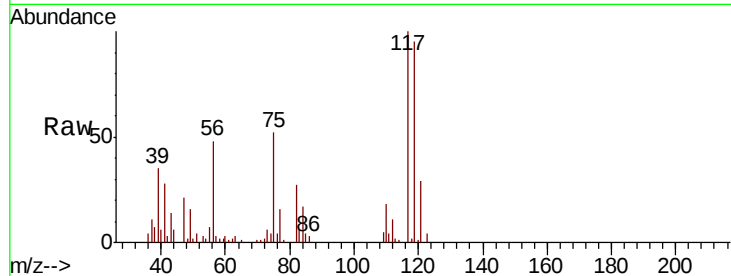
#33
Carbon Tetrachloride
Concen: 4.997 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN051613.D
Acq: 28 Sep 2018 10:42

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
117	100		
119	94.5	76.5	114.7
121	28.9	25.0	37.6

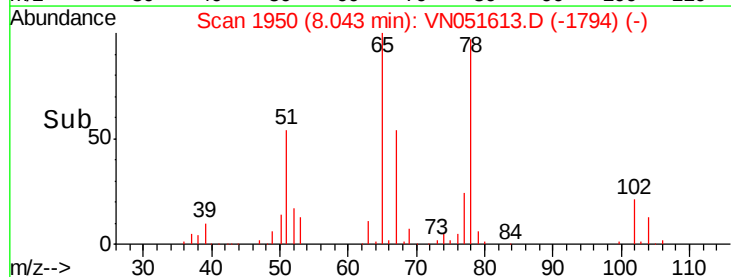
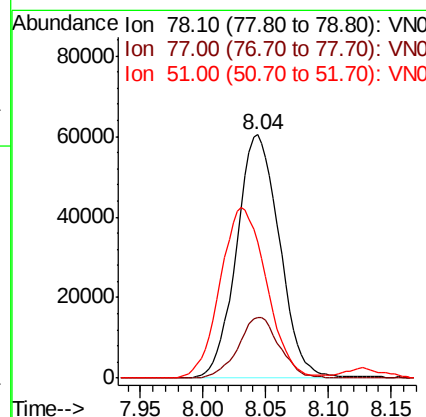
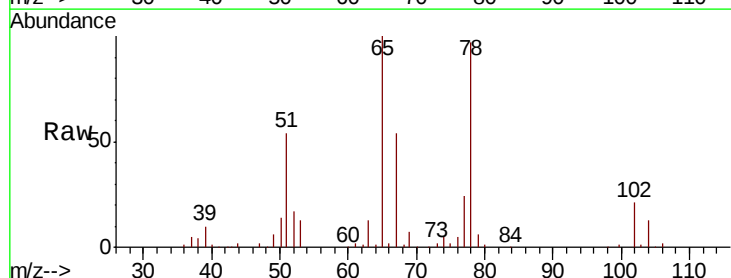
Manual Integrations
APPROVED

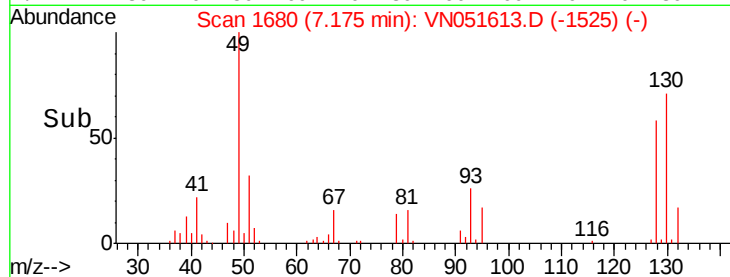
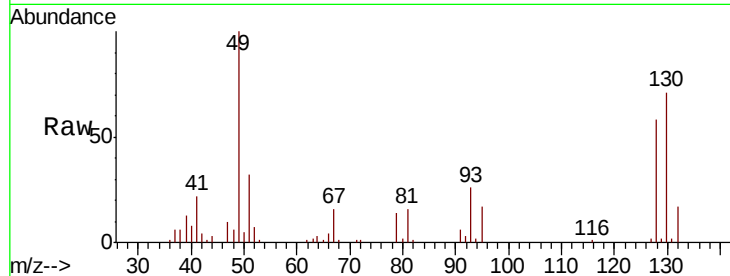
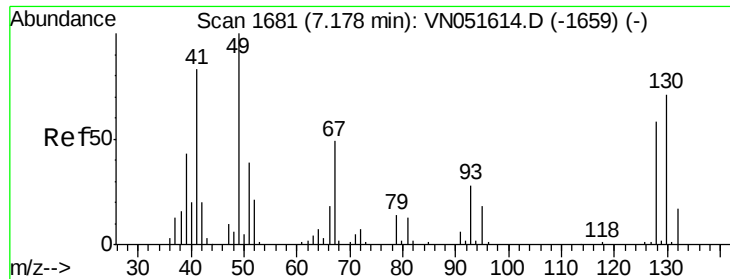
MMDadoda
10/3/2018 5:27:39 PM



#34
Benzene
Concen: 5.020 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN051613.D
Acq: 28 Sep 2018 10:42

Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.0	19.3	28.9
51	53.8	20.8	31.2#





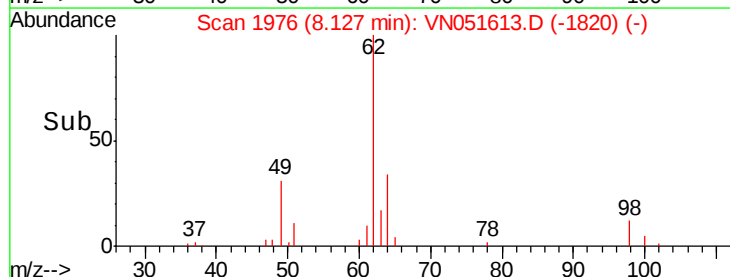
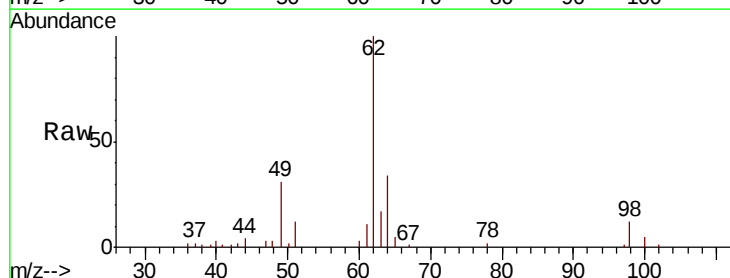
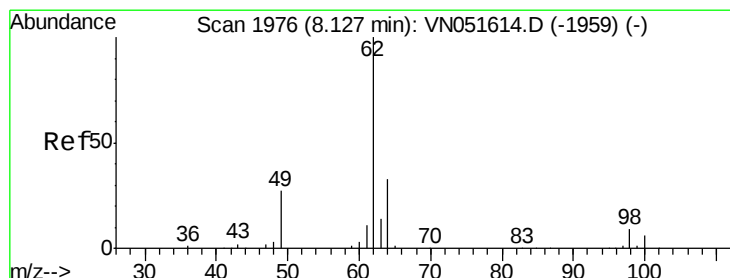
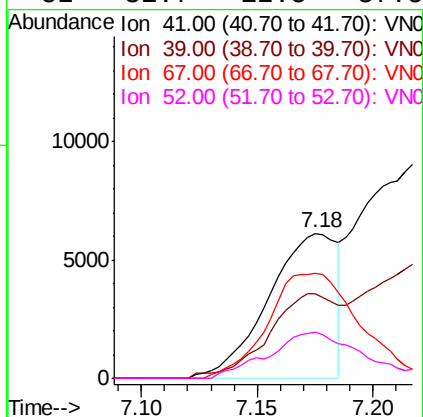
#35
Methacrylonitrile
Concen: 4.126 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VN051613.D
Acq: 28 Sep 2018 10:42

Tot Ion	Ratio	Lower	Upper
41	100		
39	58.0	25.6	76.8
67	72.9	29.4	88.2
52	31.7	12.5	37.5

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

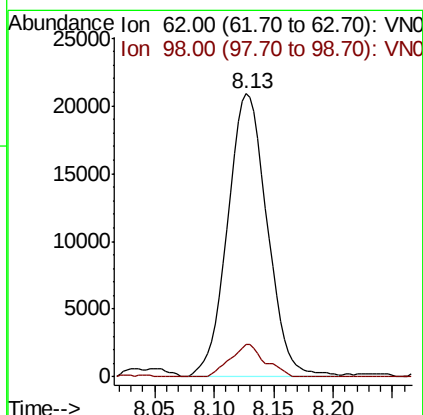
Manual Integrations
APPROVED

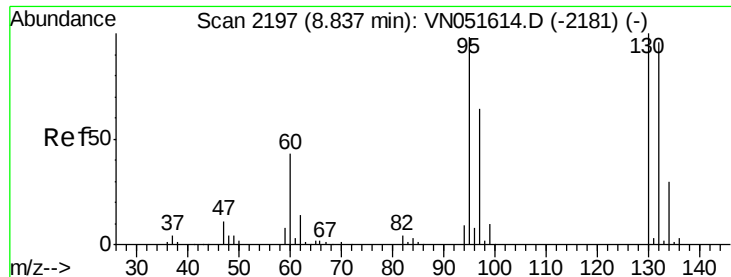
MMDadoda
10/3/2018 5:27:39 PM



#36
1,2-Dichloroethane
Concen: 5.300 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN051613.D
Acq: 28 Sep 2018 10:42

Tgt Ion	Ratio	Lower	Upper
62	100		
98	8.5	7.4	11.2





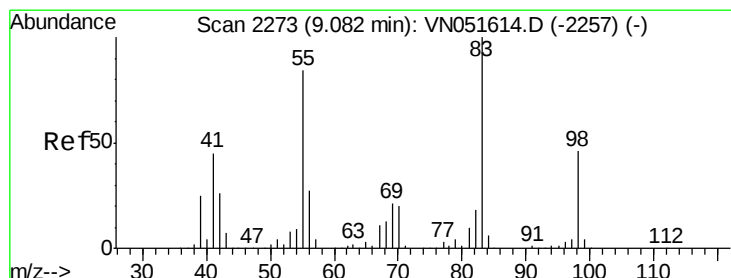
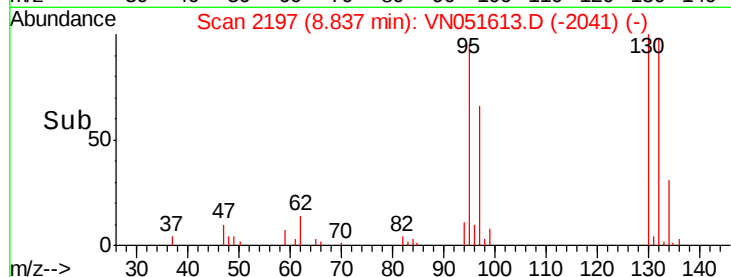
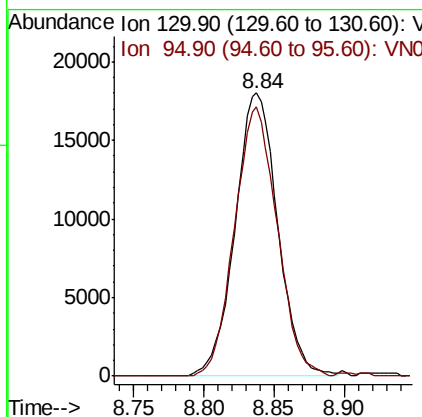
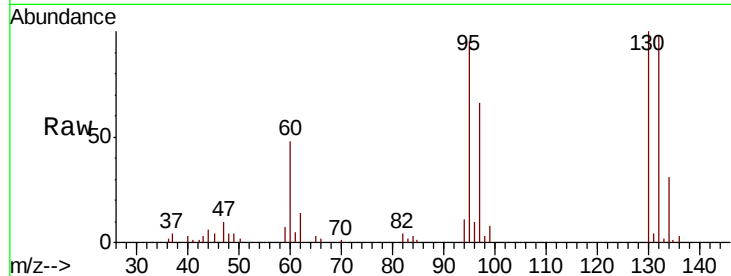
#37
 Trichloroethene
 Concen: 5.175 ug/l
 RT: 8.84 min Scan# 2197
 Delta R.T. 0.00 min
 Lab File: VN051613.D
 Acq: 28 Sep 2018 10:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion:130 Resp: 38010
 Ion Ratio Lower Upper
 130 100
 95 95.1 78.4 117.6

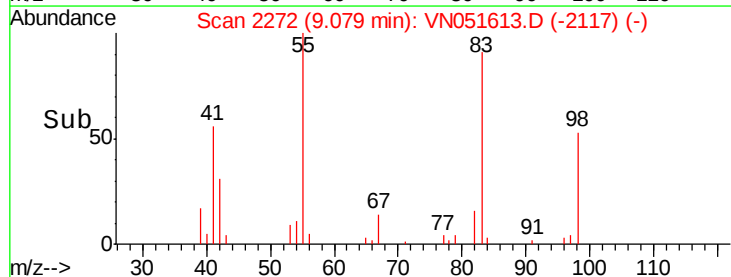
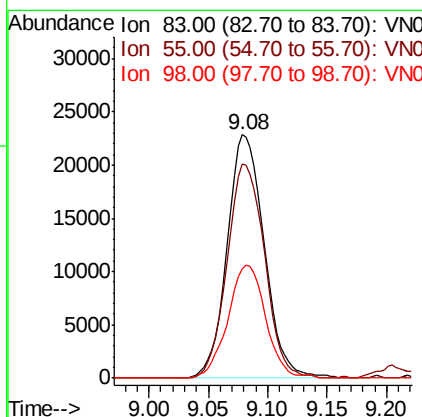
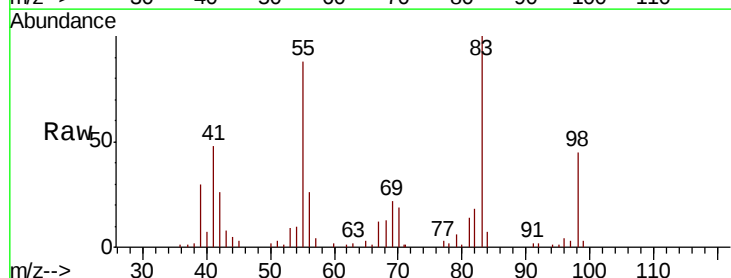
Manual Integrations
 APPROVED

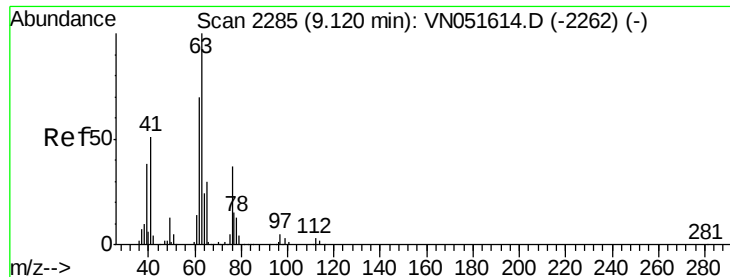
MMDadoda
 10/3/2018 5:27:39 PM



#38
 Methylcyclohexane
 Concen: 4.444 ug/l
 RT: 9.08 min Scan# 2272
 Delta R.T. -0.00 min
 Lab File: VN051613.D
 Acq: 28 Sep 2018 10:42

Tgt Ion: 83 Resp: 49455
 Ion Ratio Lower Upper
 83 100
 55 88.6 41.6 124.9
 98 46.8 23.1 69.2





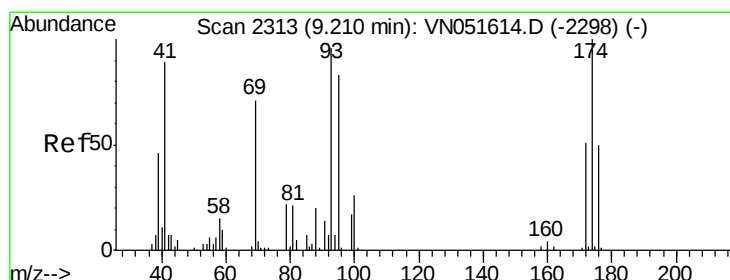
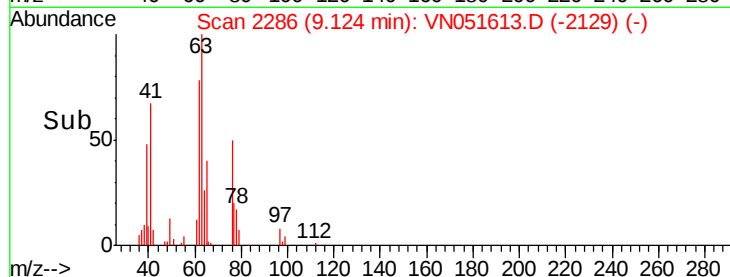
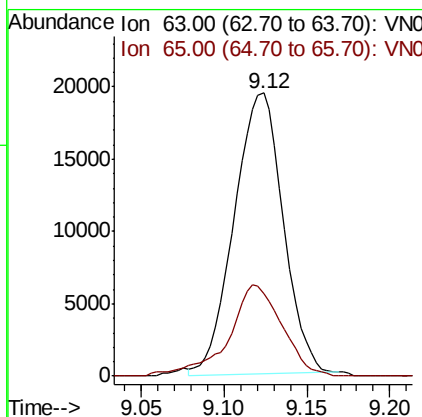
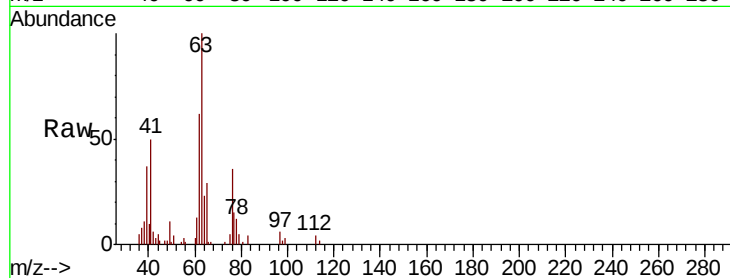
#39
 1,2-Dichloropropane
 Concen: 5.091 ug/l
 RT: 9.12 min Scan# 2286
 Delta R.T. 0.00 min
 Lab File: VN051613.D
 Acq: 28 Sep 2018 10:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	63	Resp	39910
Ion Ratio	Lower	Upper	
63	100		
65	29.6	24.4	36.6

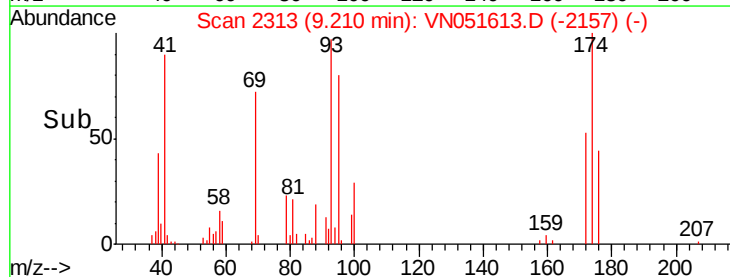
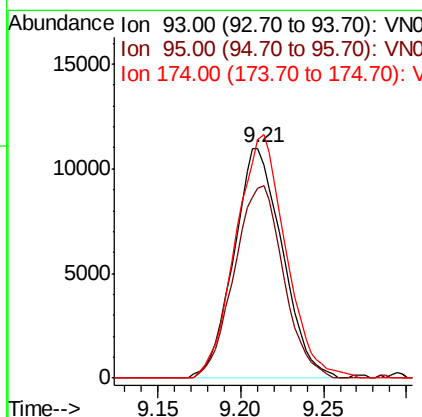
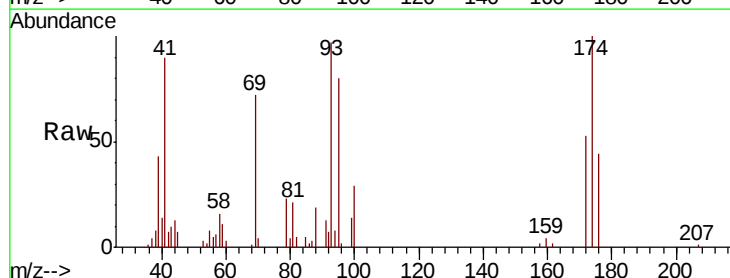
Manual Integrations
 APPROVED

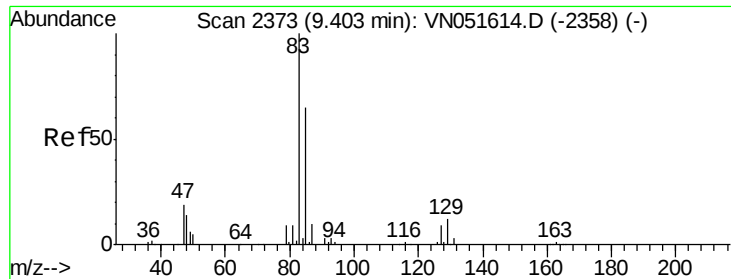
MMDadoda
 10/3/2018 5:27:39 PM



#40
 Dibromomethane
 Concen: 5.144 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN051613.D
 Acq: 28 Sep 2018 10:42

Tgt Ion	93	Resp	22399
Ion Ratio	Lower	Upper	
93	100		
95	84.5	0.0	171.0
174	109.1	0.0	212.0





#41

Bromodichloromethane

Concen: 5.038 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN051613.D

Acq: 28 Sep 2018 10:42

Instrument :

MSVOA_N

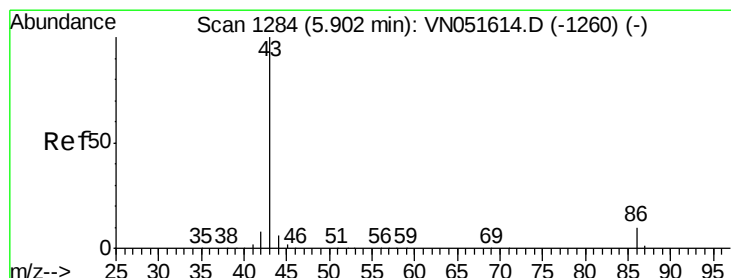
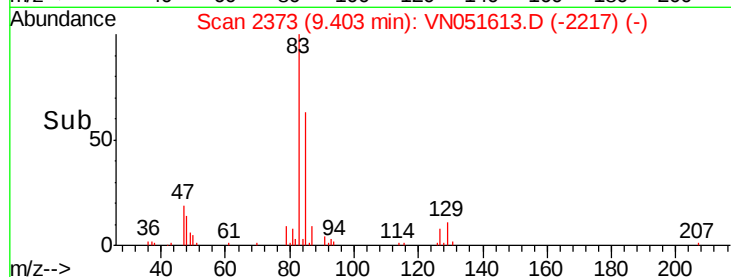
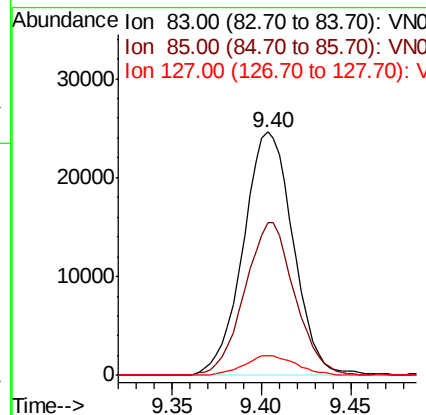
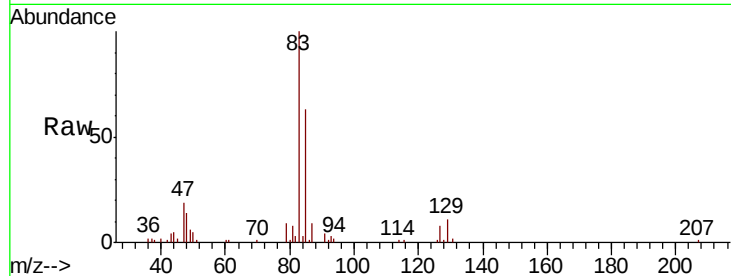
ClientSampleId :

VSTDIC005

Tot Ion:	83	Resp:	47888
Ion	Ratio	Lower	Upper
83	100		
85	62.8	52.1	78.1
127	8.3	7.1	10.7

Manual Integrations
APPROVED

MMDadoda
10/3/2018 5:27:39 PM



#42

Vinyl Acetate

Concen: 22.730 ug/l

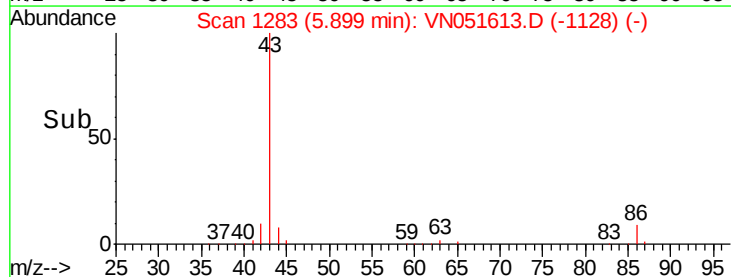
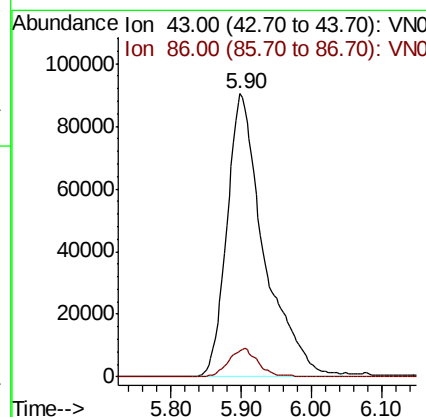
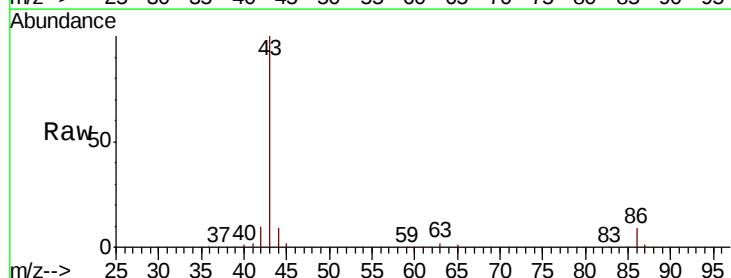
RT: 5.90 min Scan# 1283

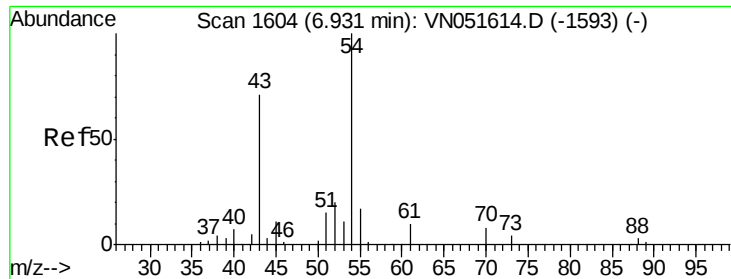
Delta R.T. -0.00 min

Lab File: VN051613.D

Acq: 28 Sep 2018 10:42

Tgt Ion:	43	Resp:	332115
Ion	Ratio	Lower	Upper
43	100		
86	7.6	6.6	9.8





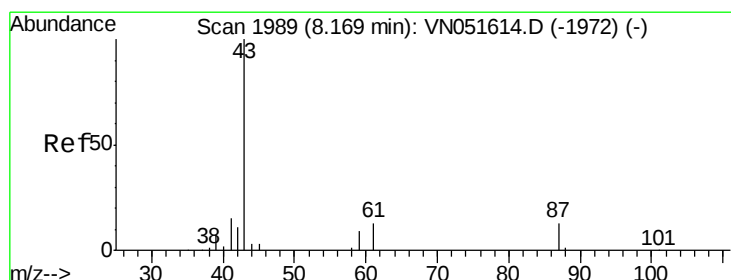
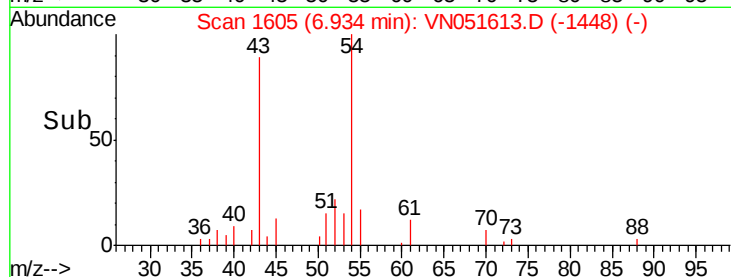
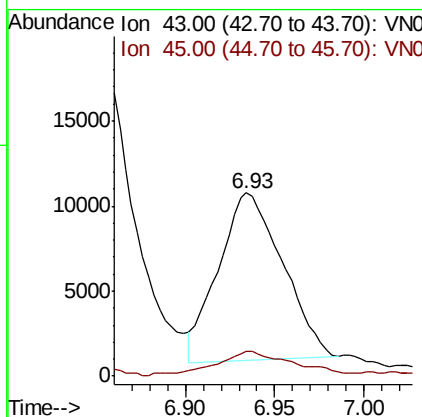
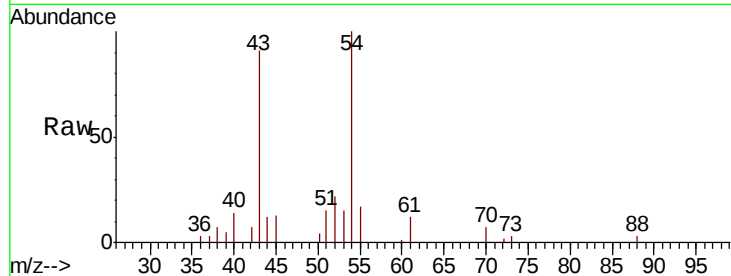
#43
Ethyl Acetate
Concen: 4.448 ug/l
RT: 6.93 min Scan# 1605
Delta R.T. 0.00 min
Lab File: VN051613.D
Acq: 28 Sep 2018 10:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	43	45	Ratio	Lower	Upper
24709	100	12.6		10.6	16.0

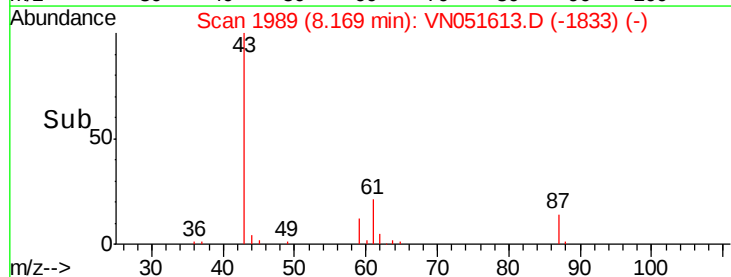
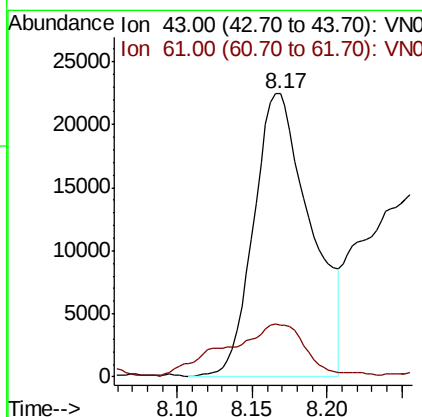
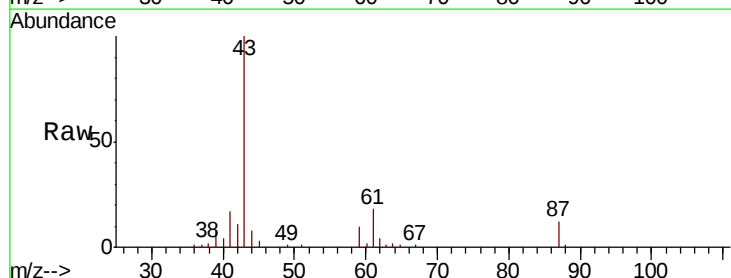
Manual Integrations
APPROVED

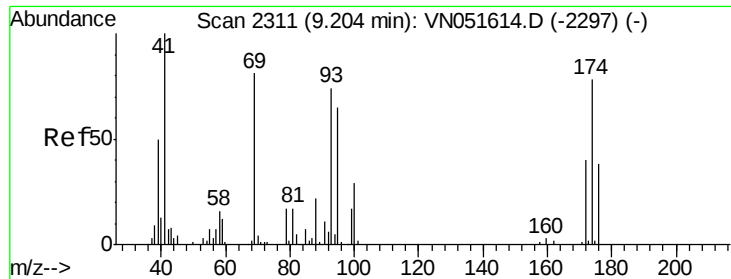
MMDadoda
10/3/2018 5:27:39 PM



#44
Isopropyl Acetate
Concen: 5.469 ug/l
RT: 8.17 min Scan# 1989
Delta R.T. 0.00 min
Lab File: VN051613.D
Acq: 28 Sep 2018 10:42

Tgt Ion	43	61	Ratio	Lower	Upper
59492	100	15.7		15.4	23.0





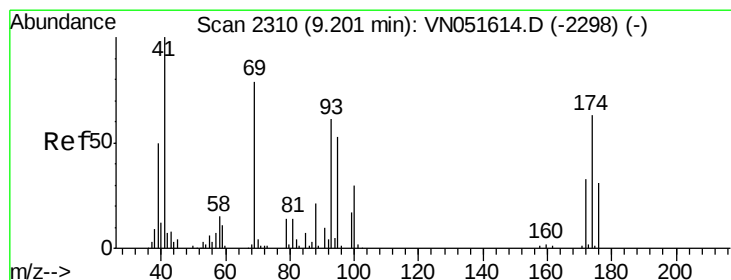
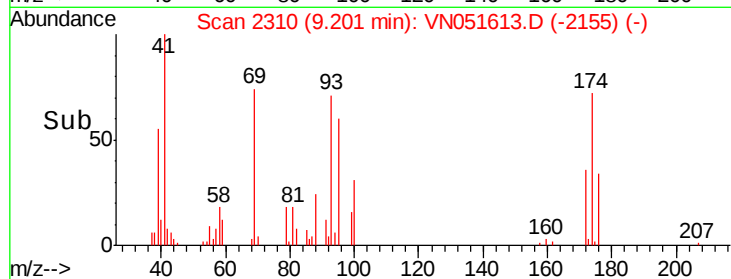
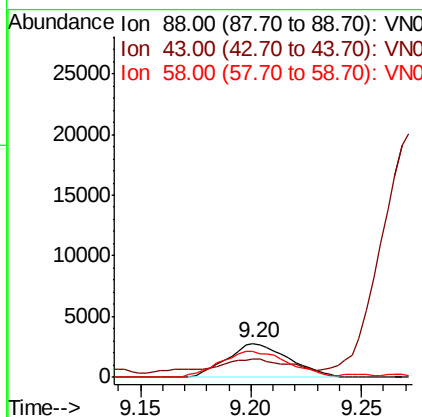
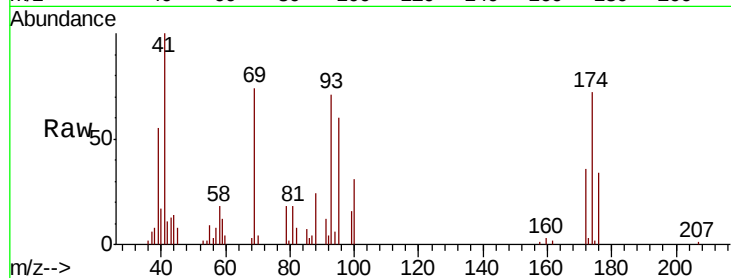
#45
1,4-Dioxane
Concen: 92.372 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. -0.00 min
Lab File: VN051613.D
Acq: 28 Sep 2018 10:42

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
88	100		
43	24.1	29.0	43.6#
58	85.7	59.0	88.6

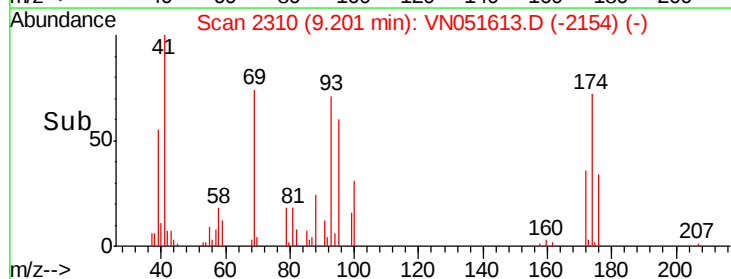
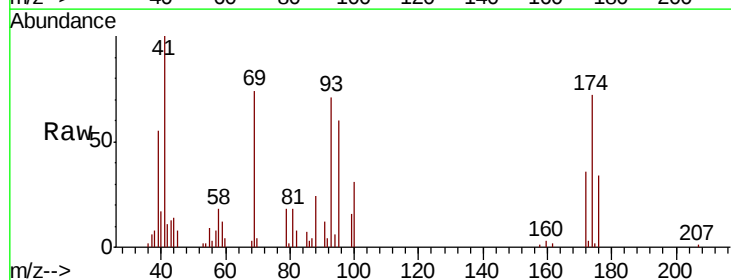
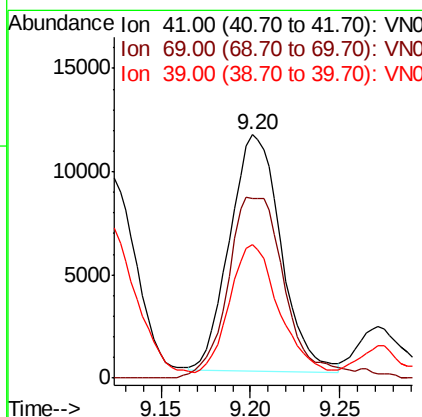
Manual Integrations
APPROVED

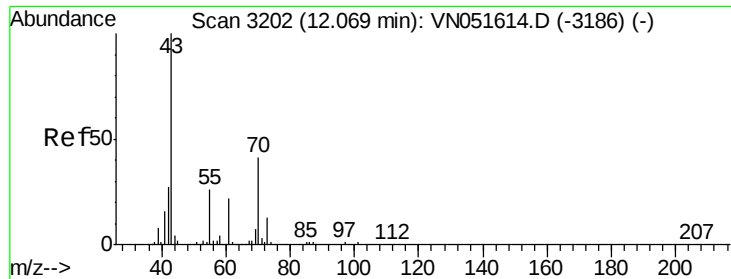
MMDadoda
10/3/2018 5:27:39 PM



#46
Methyl methacrylate
Concen: 4.549 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN051613.D
Acq: 28 Sep 2018 10:42

Tgt Ion	Ratio	Lower	Upper
41	100		
69	75.3	39.6	118.7
39	54.6	24.9	74.6





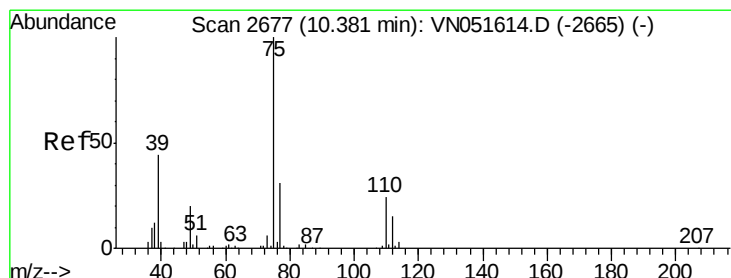
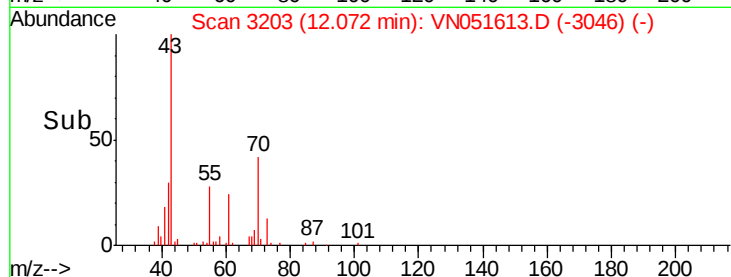
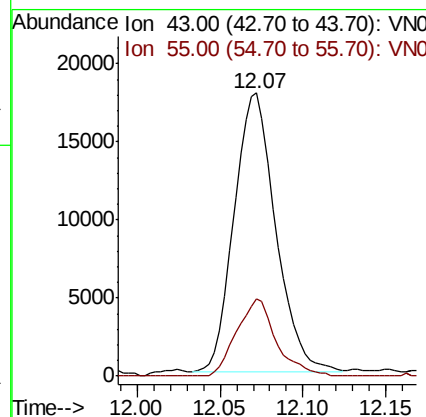
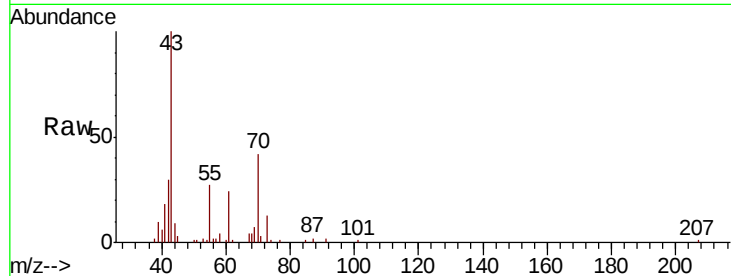
#47
n-amvl Acetate
Concen: 3.825 ug/l
RT: 12.07 min Scan# 3203
Delta R.T. 0.00 min
Lab File: VN051613.D
Acq: 28 Sep 2018 10:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	43	Resp	31133
Ion Ratio	100	Lower	Upper
43	100		
55	26.2	21.5	32.3

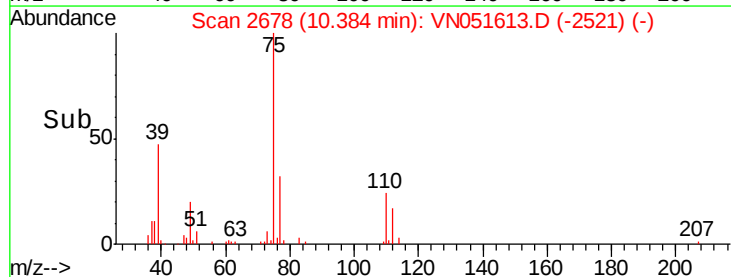
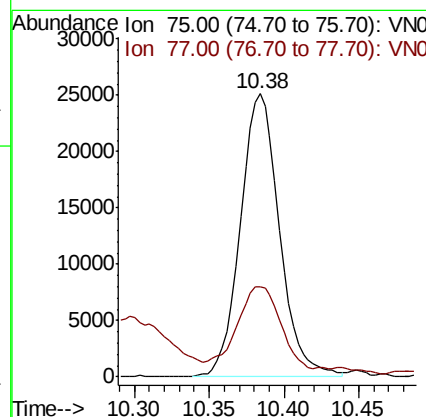
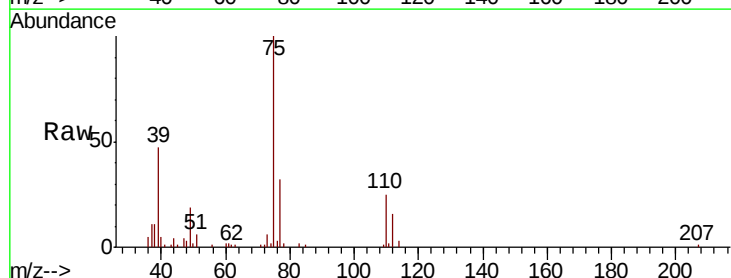
Manual Integrations
APPROVED

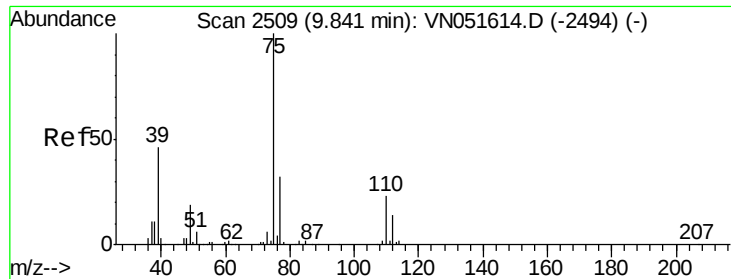
MMDadoda
10/3/2018 5:27:39 PM



#48
t-1,3-Dichloropropene
Concen: 4.829 ug/l
RT: 10.38 min Scan# 2678
Delta R.T. 0.00 min
Lab File: VN051613.D
Acq: 28 Sep 2018 10:42

Tgt Ion	75	Resp	45814
Ion Ratio	100	Lower	Upper
75	100		
77	28.5	26.0	39.0





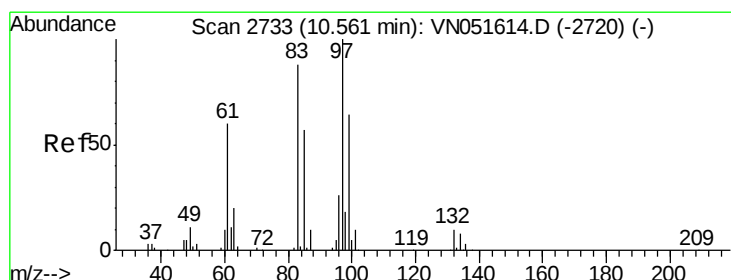
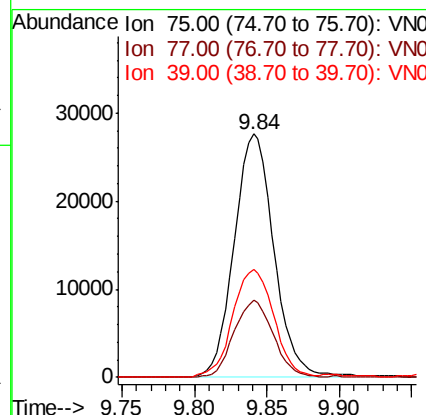
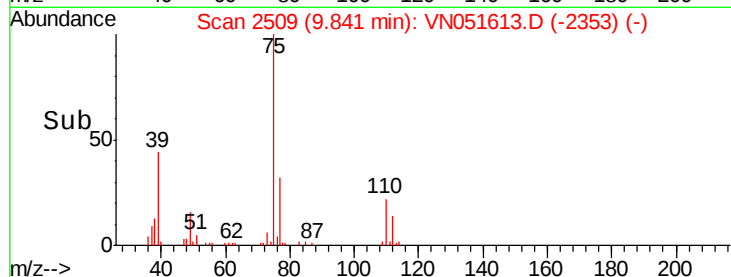
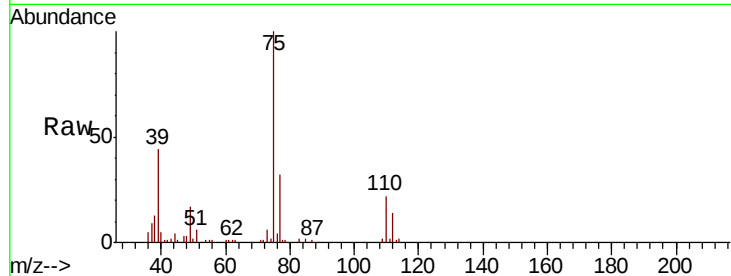
#49
 cis-1,3-Dichloropropene
 Concen: 4.756 ug/l
 RT: 9.84 min Scan# 2509
 Delta R.T. 0.00 min
 Lab File: VN051613.D
 Acq: 28 Sep 2018 10:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.4	38.0
39	44.2	36.6	55.0

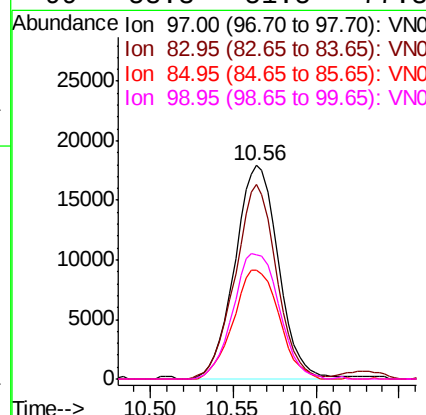
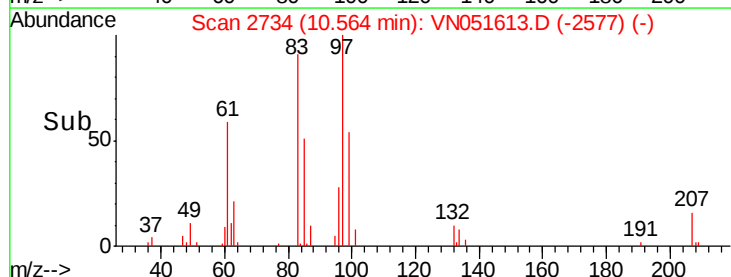
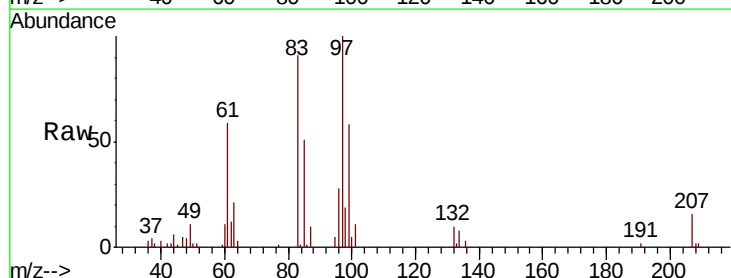
Manual Integrations
 APPROVED

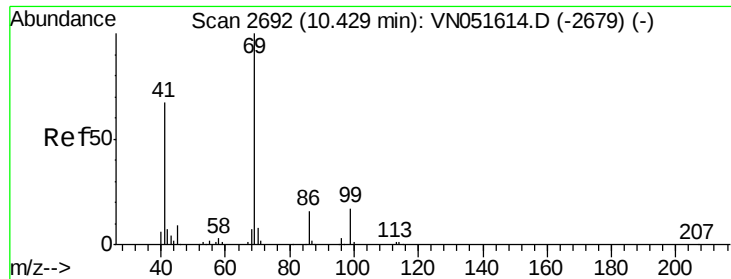
MMDadoda
 10/3/2018 5:27:39 PM



#50
 1,1,2-Trichloroethane
 Concen: 5.326 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN051613.D
 Acq: 28 Sep 2018 10:42

Tgt Ion	Ratio	Lower	Upper
97	100		
83	90.0	70.2	105.2
85	51.2	45.6	68.4
99	58.3	51.5	77.3





#51

Ethyl methacrylate

Concen: 4.344 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN051613.D

Acq: 28 Sep 2018 10:42

Instrument :

MSVOA_N

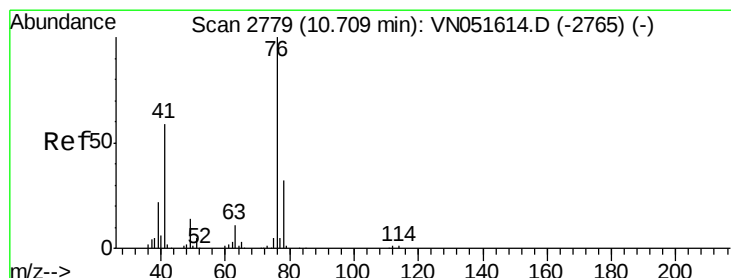
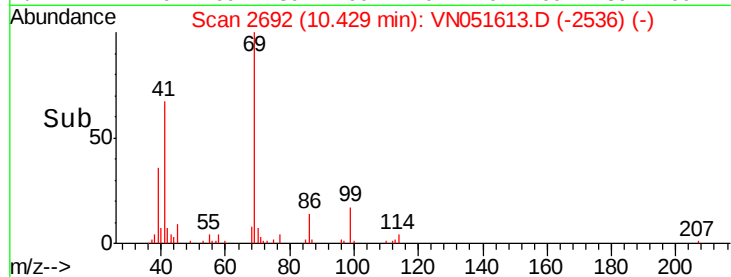
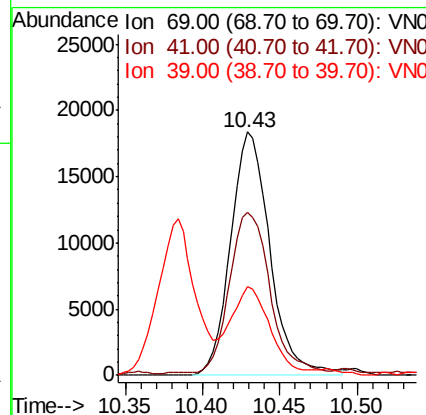
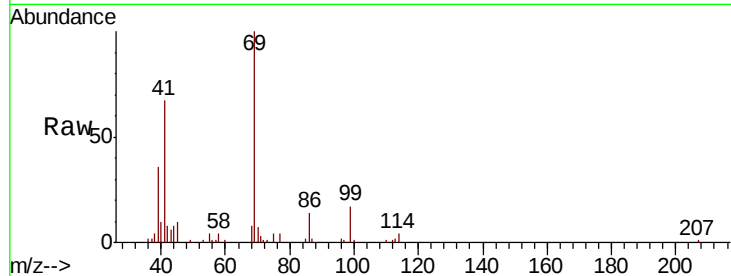
ClientSampled :

VSTDIC005

Tot Ion:	69	Resp:	32432
Ion	Ratio	Lower	Upper
69	100		
41	65.8	33.3	99.8
39	35.1	17.2	51.6

Manual Integrations
APPROVED

MMDadoda
10/3/2018 5:27:39 PM



#52

1,3-Dichloropropane

Concen: 5.059 ug/l

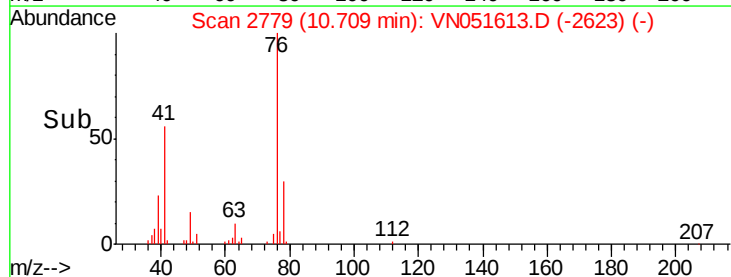
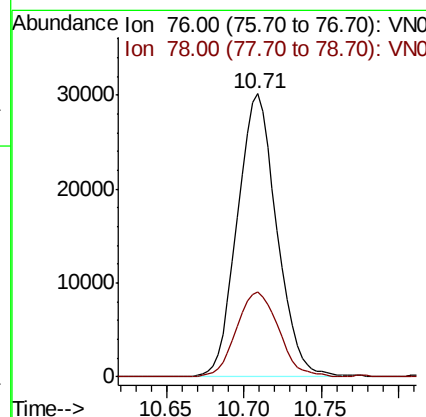
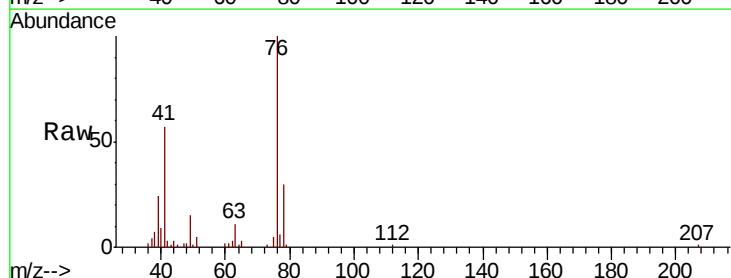
RT: 10.71 min Scan# 2779

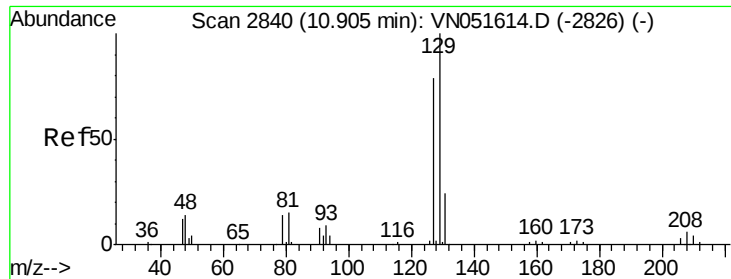
Delta R.T. 0.00 min

Lab File: VN051613.D

Acq: 28 Sep 2018 10:42

Tgt Ion:	76	Resp:	53385
Ion	Ratio	Lower	Upper
76	100		
78	32.1	0.0	63.4





#53

Dibromochloromethane

Concen: 5.030 ug/l

RT: 10.90 min Scan# 2840

Delta R.T. 0.00 min

Lab File: VN051613.D

Acq: 28 Sep 2018 10:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:129 Resp: 35255

Ion Ratio Lower Upper

129 100

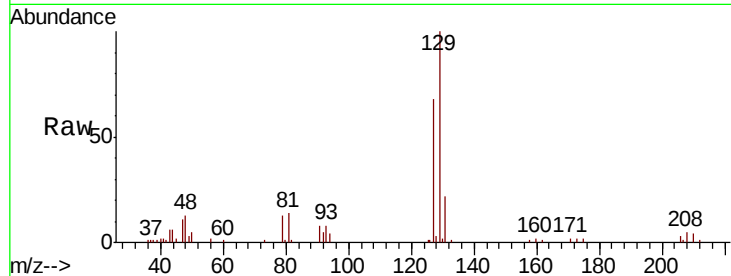
127 71.9 38.9 116.7

Manual Integrations

APPROVED

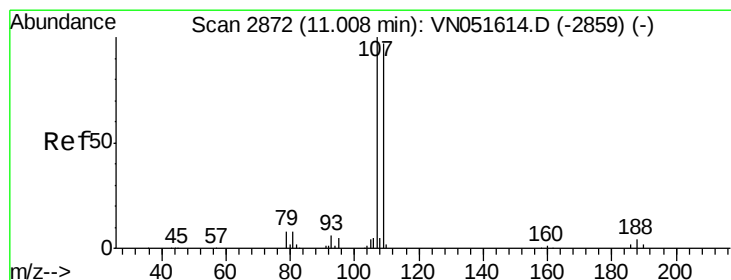
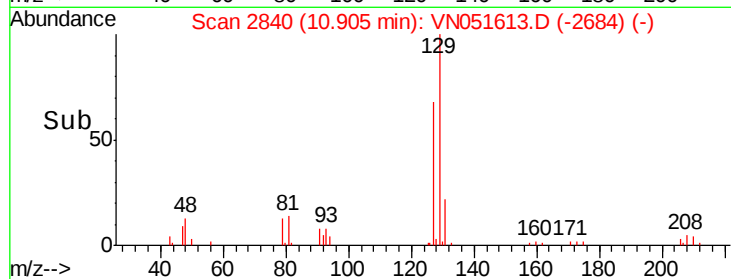
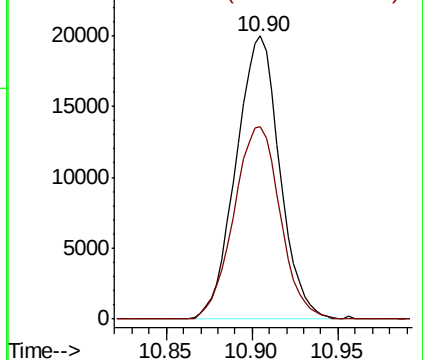
MMDadoda

10/3/2018 5:27:39 PM



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#54

1,2-Dibromoethane

Concen: 4.962 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN051613.D

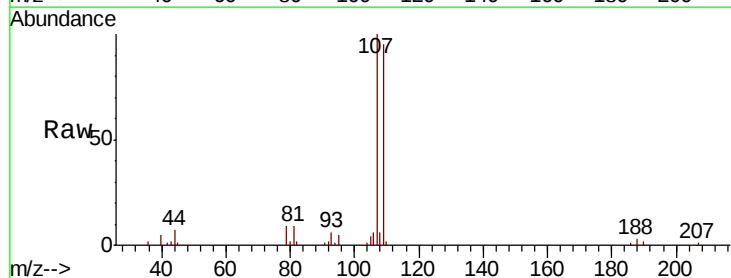
Acq: 28 Sep 2018 10:42

Tgt Ion:107 Resp: 29302

Ion Ratio Lower Upper

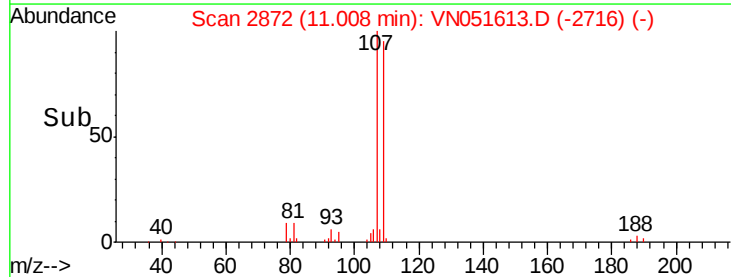
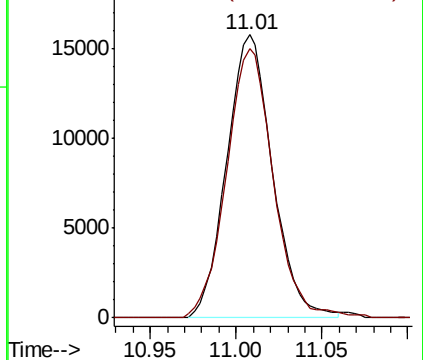
107 100

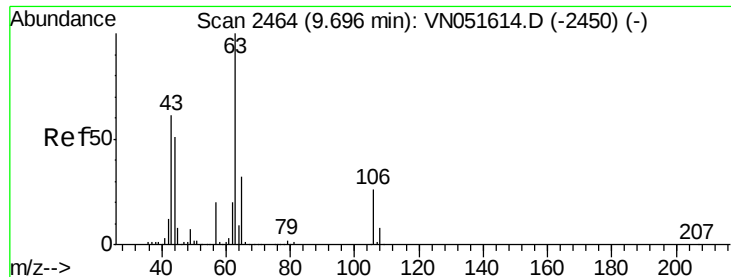
109 95.5 76.5 114.7



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





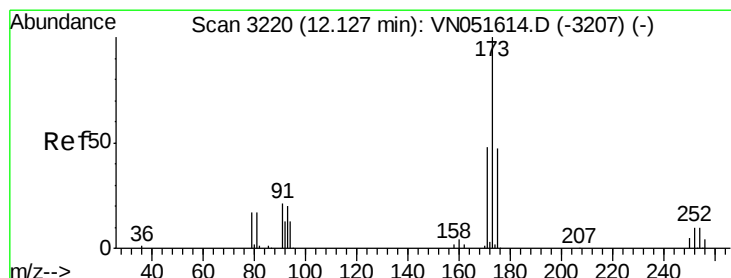
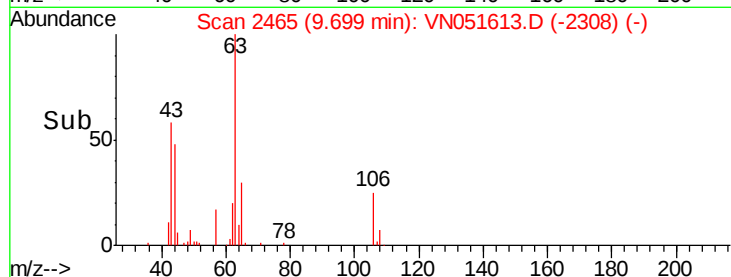
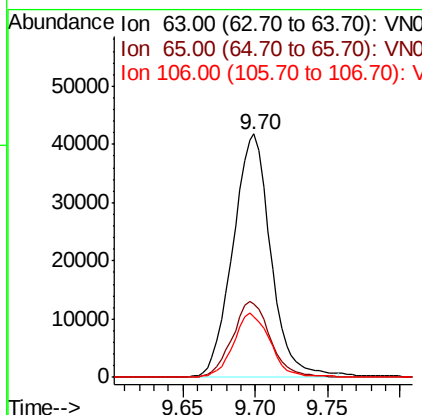
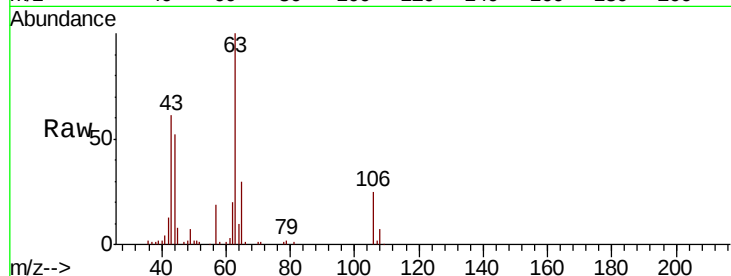
#55
 2-Chloroethyl vinyl ether
 Concen: 20.583 ug/l
 RT: 9.70 min Scan# 2465
 Delta R.T. 0.00 min
 Lab File: VN051613.D
 Acq: 28 Sep 2018 10:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion:	63	Resp:	75963
Ion	Ratio	Lower	Upper
63	100		
65	31.1	25.8	38.6
106	25.3	20.4	30.6

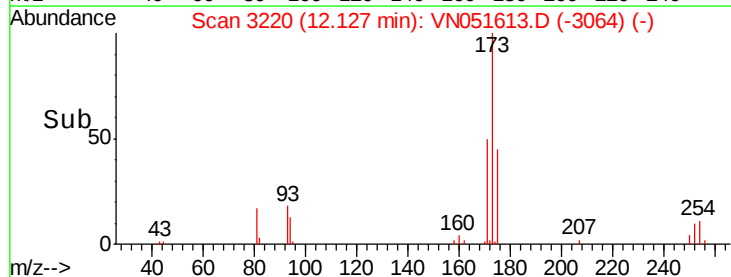
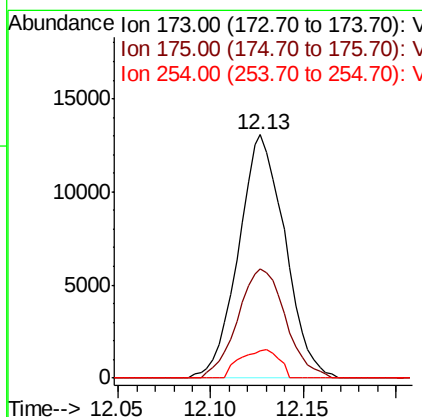
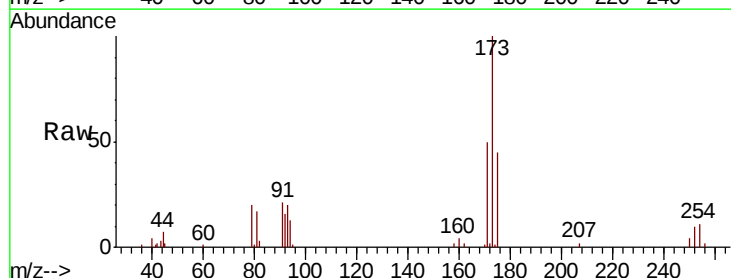
Manual Integrations
 APPROVED

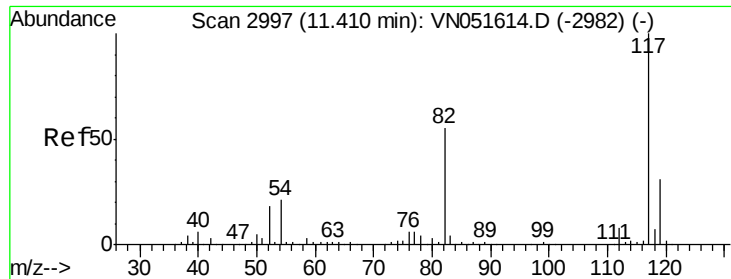
MMDadoda
 10/3/2018 5:27:39 PM



#56
 Bromoform
 Concen: 4.905 ug/l
 RT: 12.13 min Scan# 3220
 Delta R.T. 0.00 min
 Lab File: VN051613.D
 Acq: 28 Sep 2018 10:42

Tgt Ion:	173	Resp:	22812
Ion	Ratio	Lower	Upper
173	100		
175	46.1	39.0	58.4
254	9.7	8.7	13.1





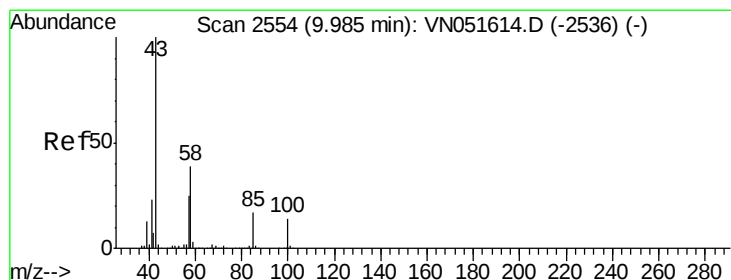
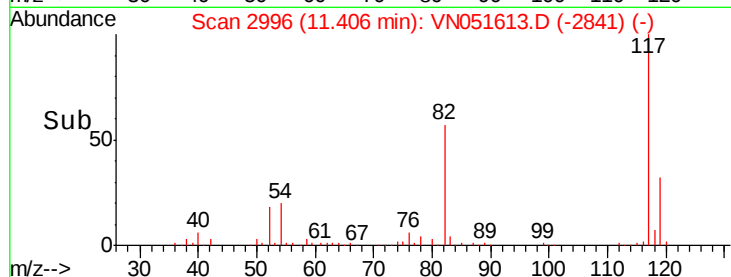
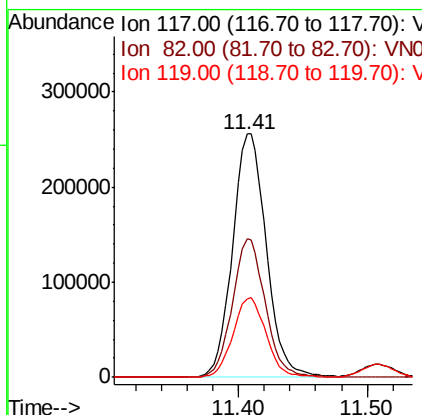
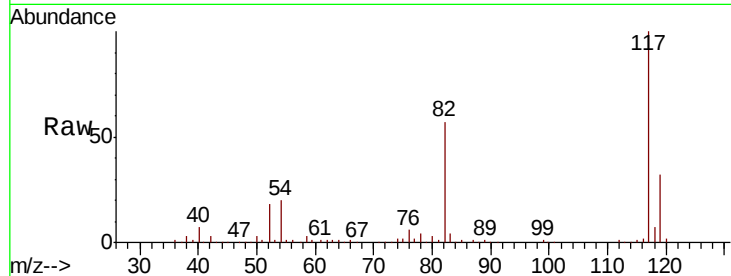
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN051613.D
Acq: 28 Sep 2018 10:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
117	100		
82	55.3	44.2	66.2
119	32.2	25.2	37.8

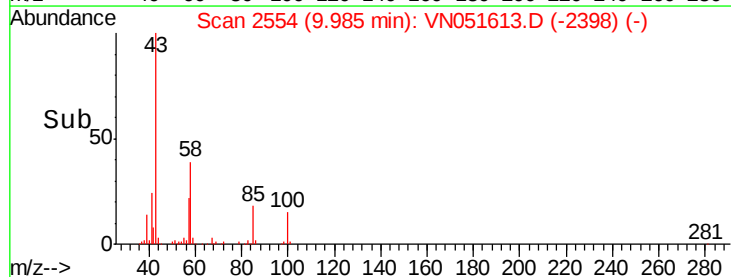
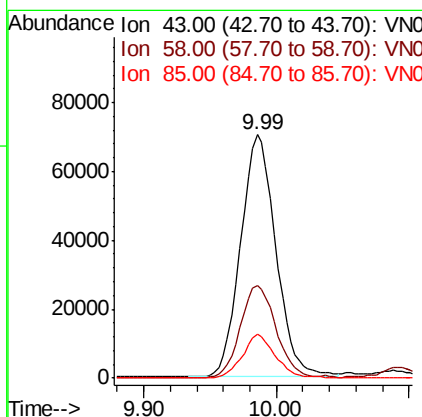
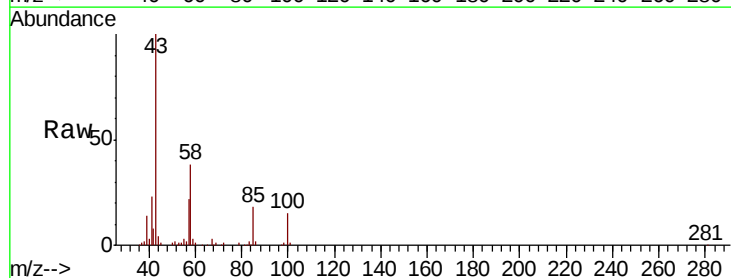
Manual Integrations
APPROVED

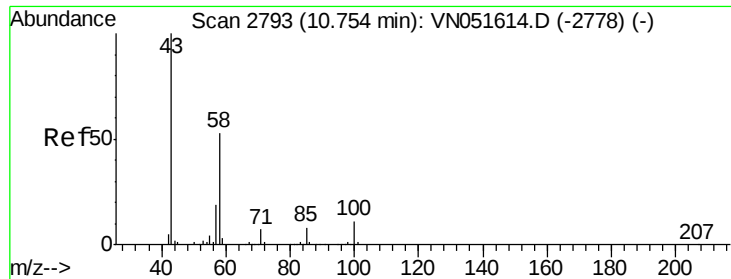
MMDadoda
10/3/2018 5:27:39 PM



#58
4-Methyl-2-Pentanone
Concen: 24.673 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN051613.D
Acq: 28 Sep 2018 10:42

Tgt Ion	Ratio	Lower	Upper
43	100		
58	38.5	31.0	46.4
85	16.6	13.4	20.2





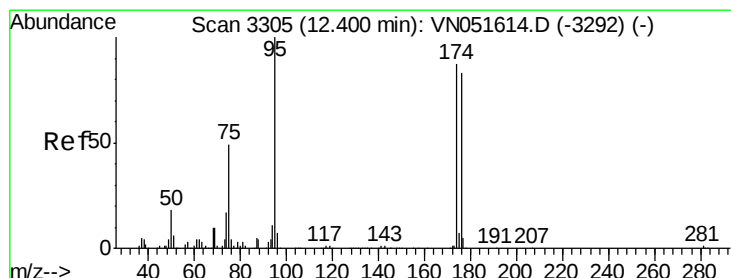
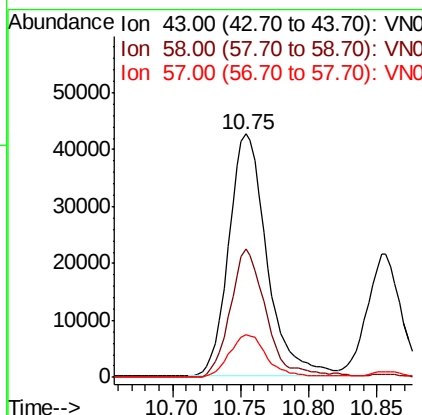
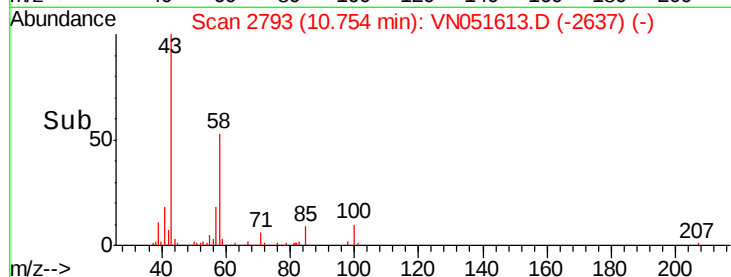
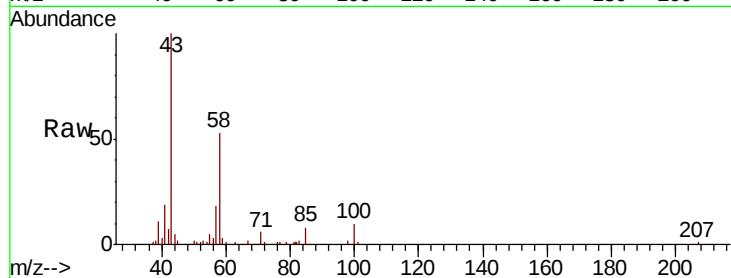
#59
2-Hexanone
Concen: 23.608 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN051613.D
Acq: 28 Sep 2018 10:42

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
43	100		
58	49.9	41.5	62.3
57	17.5	14.2	21.4

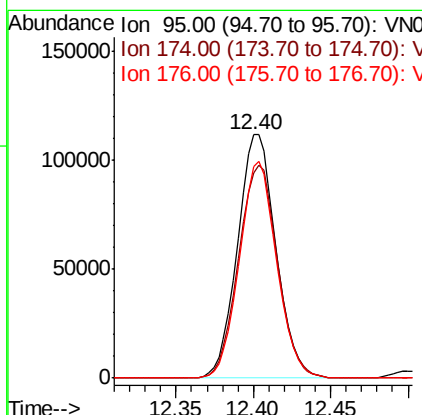
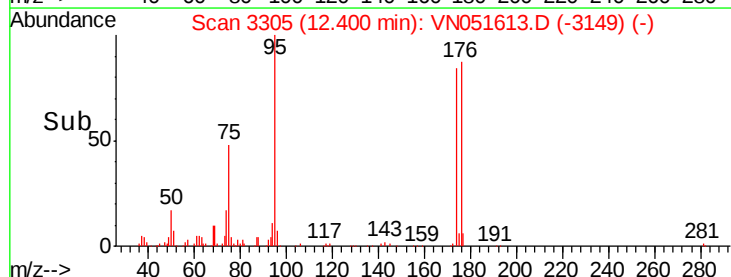
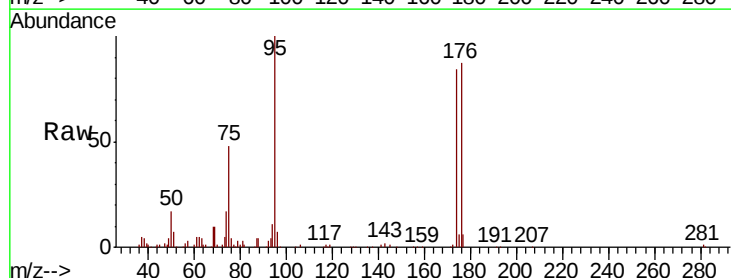
Manual Integrations
APPROVED

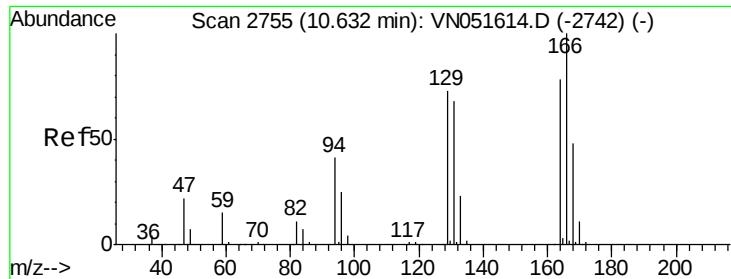
MMDadoda
10/3/2018 5:27:39 PM



#60
4-Bromofluorobenzene
Concen: 23.608 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN051613.D
Acq: 28 Sep 2018 10:42

Tgt Ion	Ratio	Lower	Upper
95	100		
174	89.2	71.2	106.8
176	86.5	67.8	101.8





#61

Tetrachloroethene

Concen: 5.410 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN051613.D

Acq: 28 Sep 2018 10:42

Instrument :

MSVOA_N

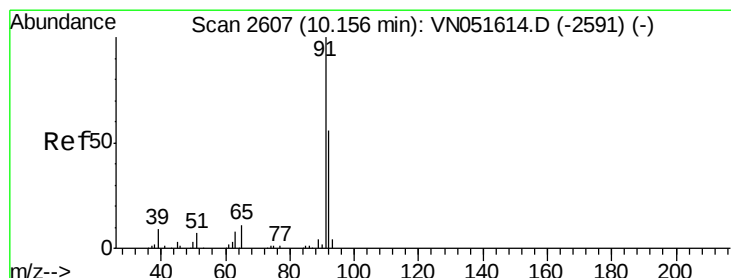
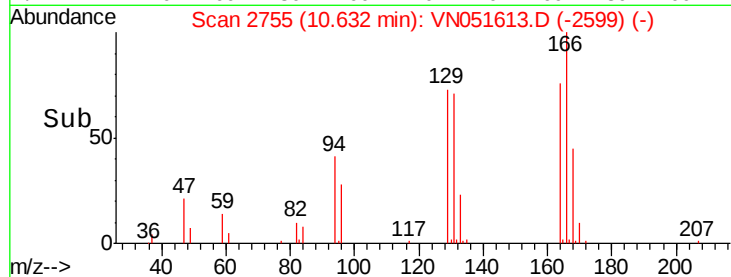
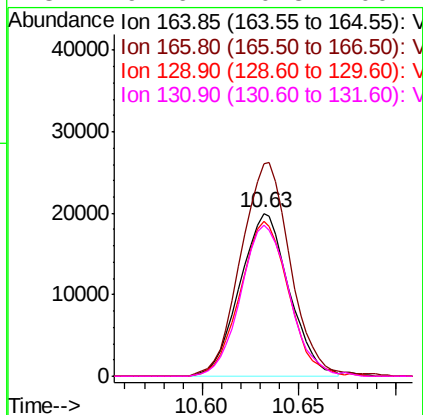
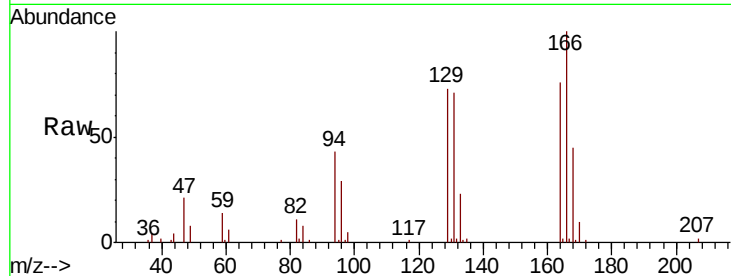
ClientSampleId :

VSTDIC005

Tot Ion:	164	Resp:	35660
Ion	Ratio	Lower	Upper
164	100		
166	131.0	103.1	154.7
129	95.4	75.3	112.9
131	92.6	70.8	106.2

Manual Integrations
APPROVED

MMDadoda
10/3/2018 5:27:39 PM



#62

Toluene

Concen: 5.191 ug/l

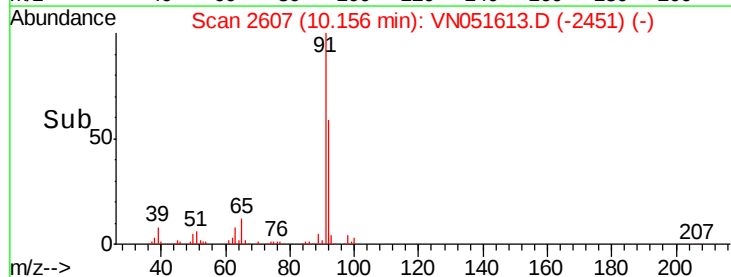
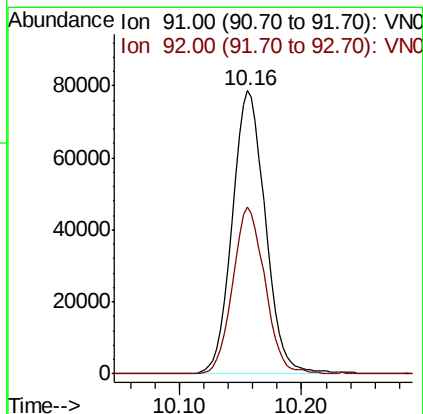
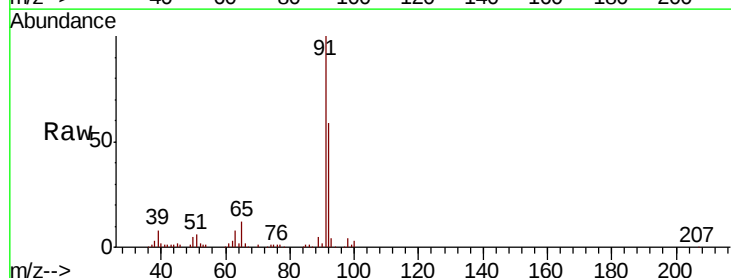
RT: 10.16 min Scan# 2607

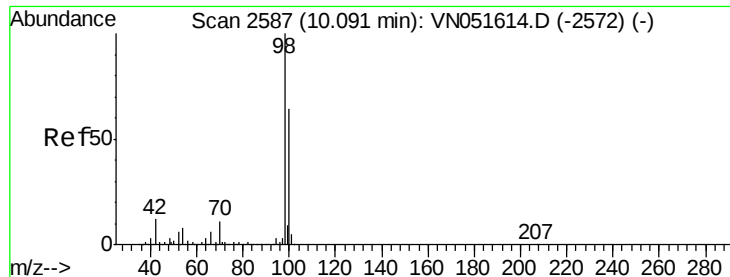
Delta R.T. 0.00 min

Lab File: VN051613.D

Acq: 28 Sep 2018 10:42

Tgt Ion:	91	Resp:	148195
Ion	Ratio	Lower	Upper
91	100		
92	57.4	45.3	67.9





#63

Toluene-d8

Concen: 5.191 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051613.D

Acq: 28 Sep 2018 10:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 98 Resp: 677793

Ion Ratio Lower Upper

98 100

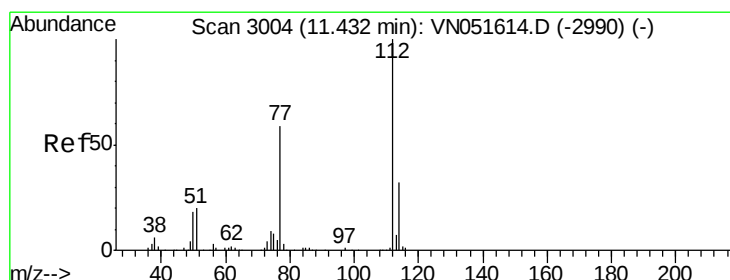
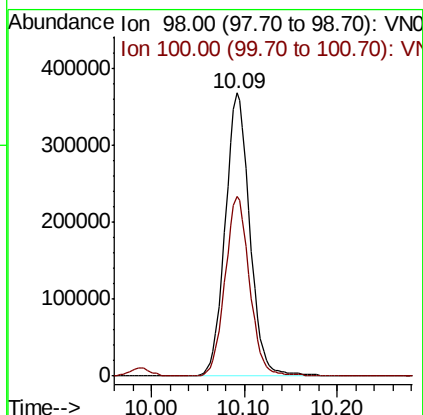
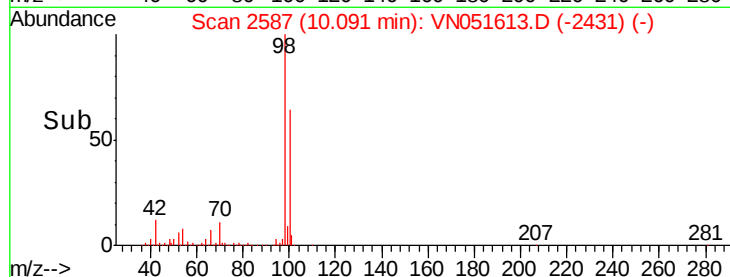
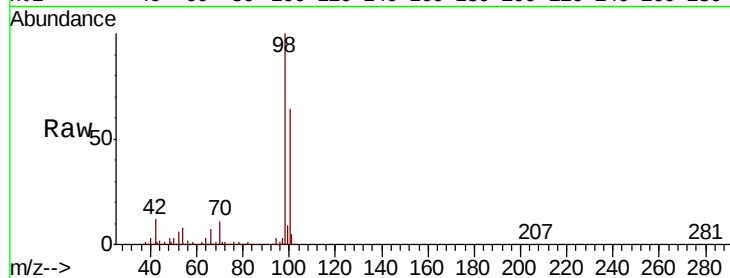
100 62.7 51.4 77.0

Manual Integrations

APPROVED

MMDadoda

10/3/2018 5:27:39 PM



#64

Chlorobenzene

Concen: 5.159 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN051613.D

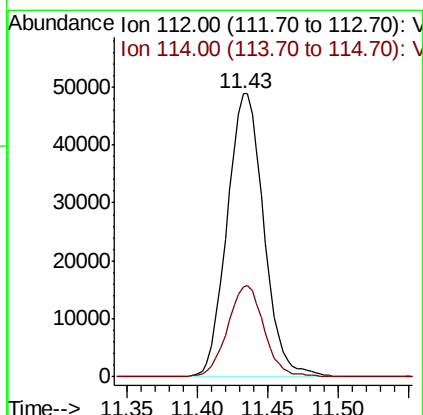
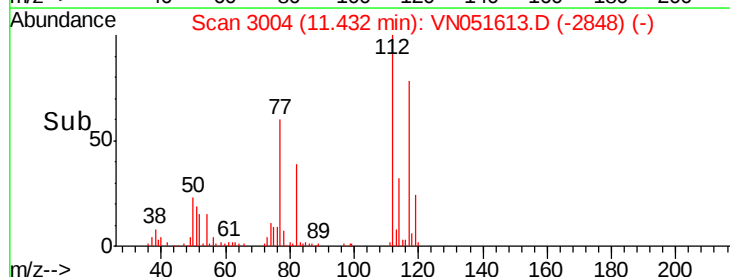
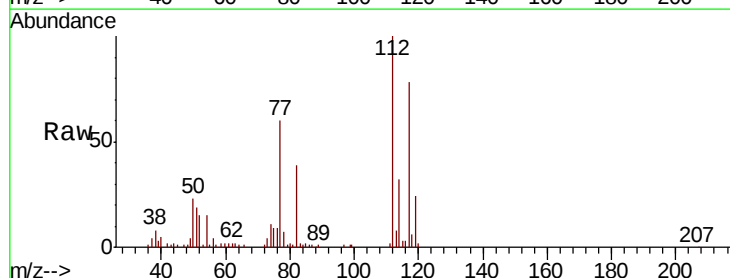
Acq: 28 Sep 2018 10:42

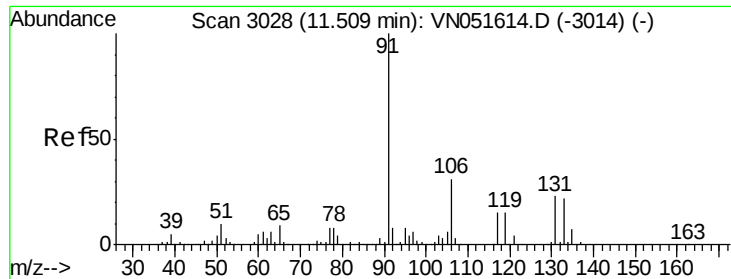
Tgt Ion: 112 Resp: 89045

Ion Ratio Lower Upper

112 100

114 31.7 25.9 38.9





#65

1,1,1,2-Tetrachloroethane

Concen: 5.340 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN051613.D

Acq: 28 Sep 2018 10:42

Instrument :

MSVOA_N

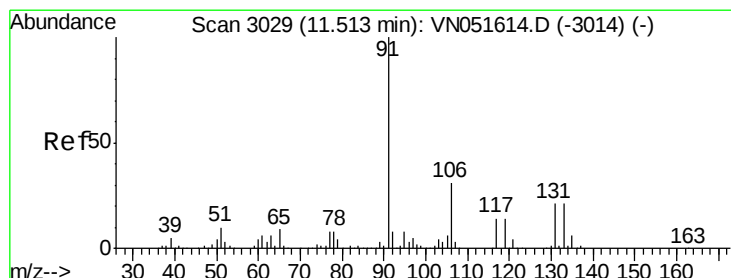
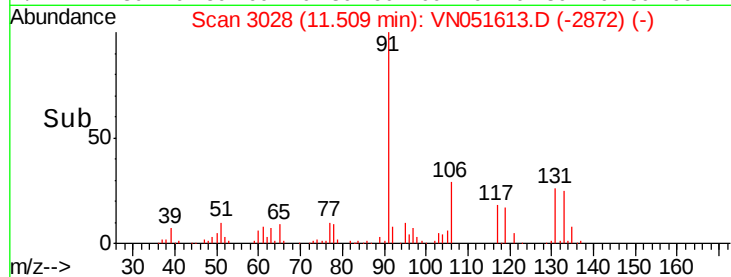
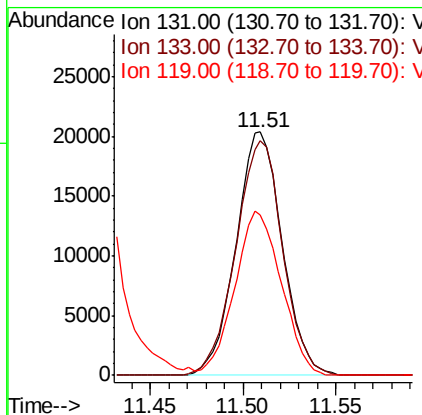
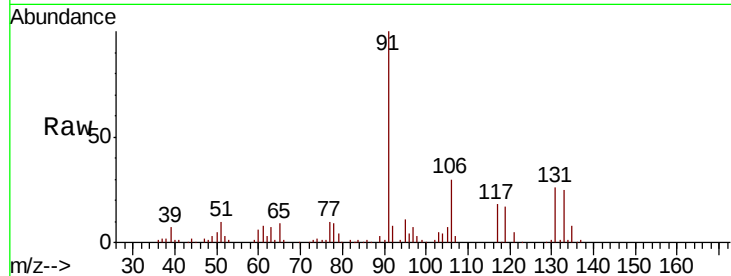
ClientSampled :

VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
131	100	35194		
133	98.1	0.0	193.0	
119	67.9	0.0	135.0	

Manual Integrations
APPROVED

MMDadoda
10/3/2018 5:27:39 PM



#66

Ethyl Benzene

Concen: 4.632 ug/l

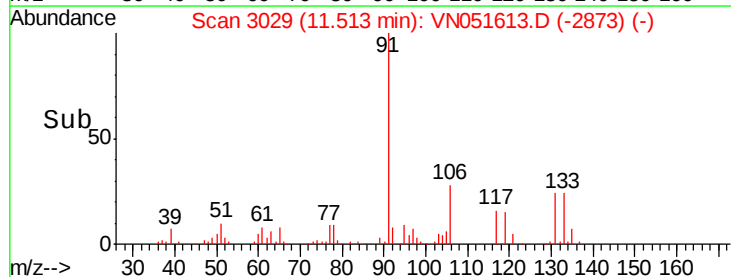
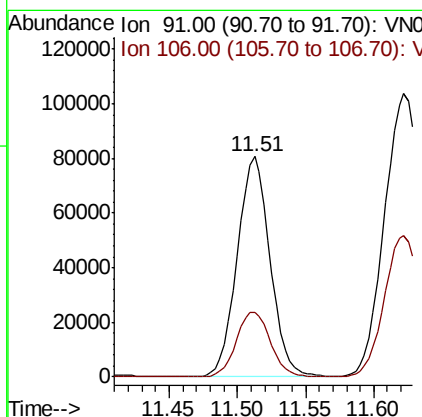
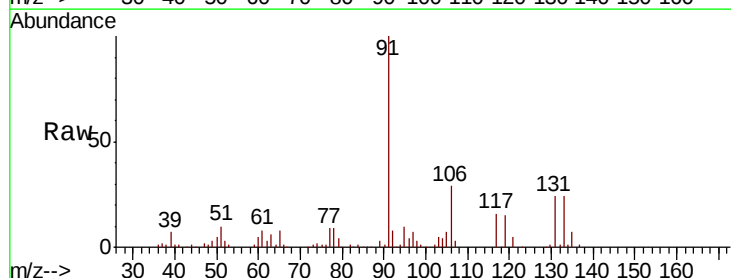
RT: 11.51 min Scan# 3029

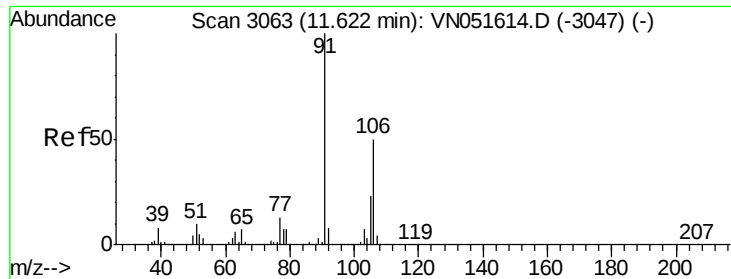
Delta R.T. 0.00 min

Lab File: VN051613.D

Acq: 28 Sep 2018 10:42

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	135326		
106	29.3	25.0	37.4	





#67

m/p-Xylenes

Concen: 9.017 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN051613.D

Acq: 28 Sep 2018 10:42

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

Tot Ion:106 Resp: 101528

Ion Ratio Lower Upper

106 100

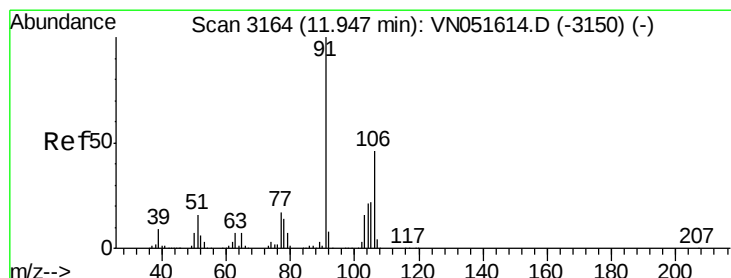
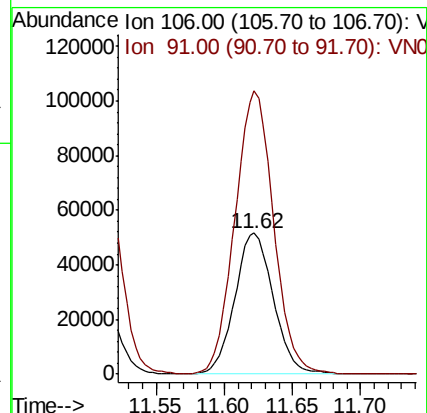
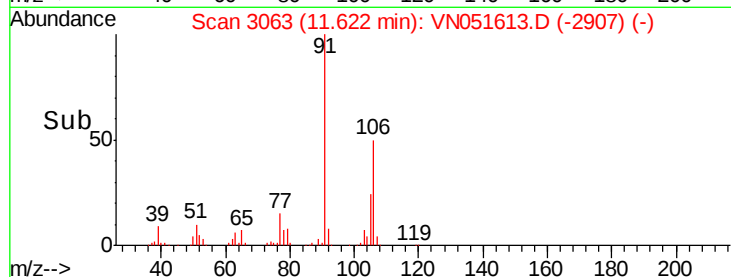
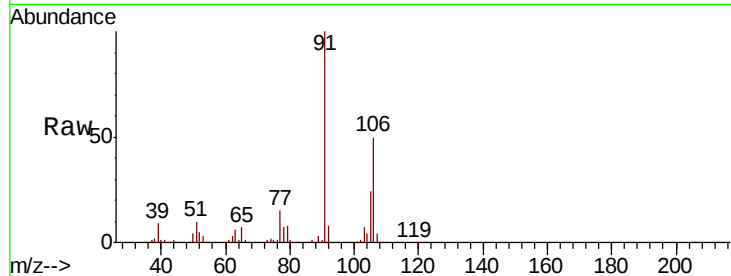
91 201.0 161.5 242.3

Manual Integrations

APPROVED

MMDadoda

10/3/2018 5:27:39 PM



#68

o-Xylene

Concen: 4.628 ug/l

RT: 11.95 min Scan# 3165

Delta R.T. 0.00 min

Lab File: VN051613.D

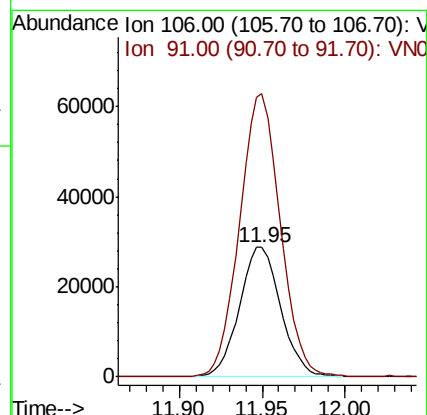
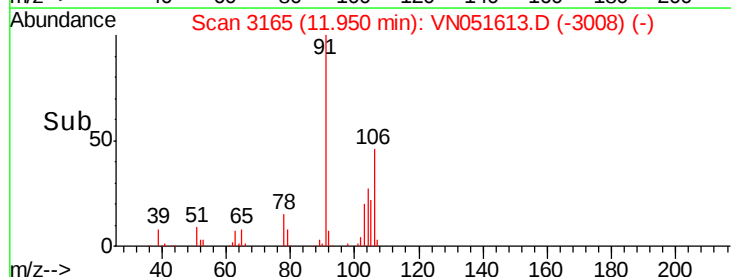
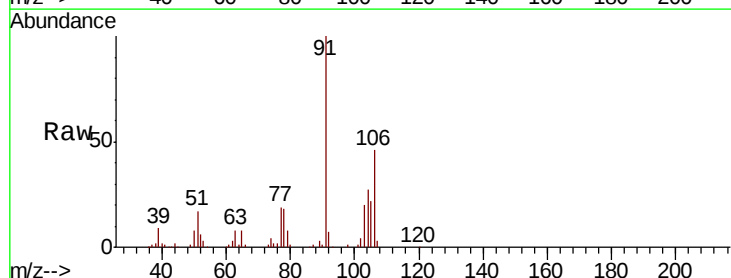
Acq: 28 Sep 2018 10:42

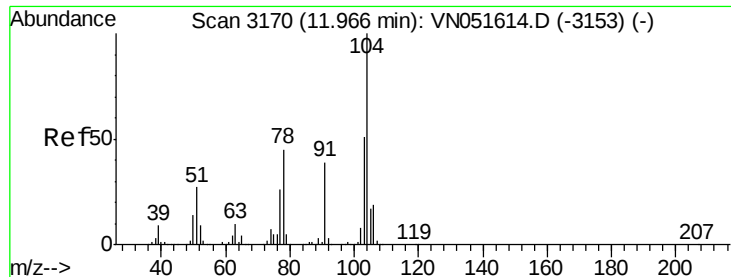
Tgt Ion:106 Resp: 49747

Ion Ratio Lower Upper

106 100

91 215.9 109.7 329.1





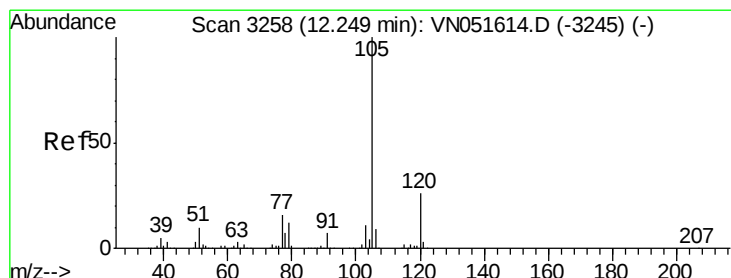
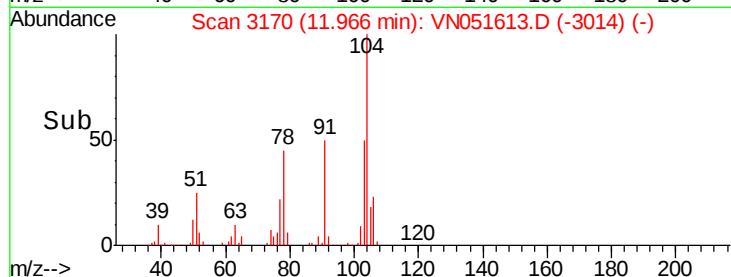
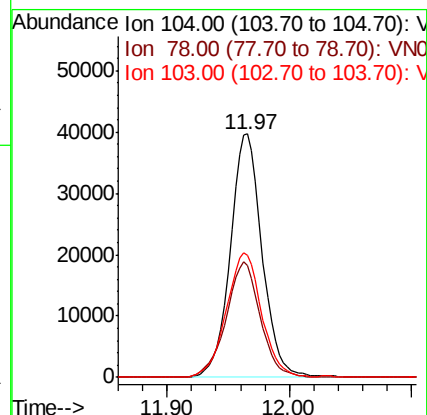
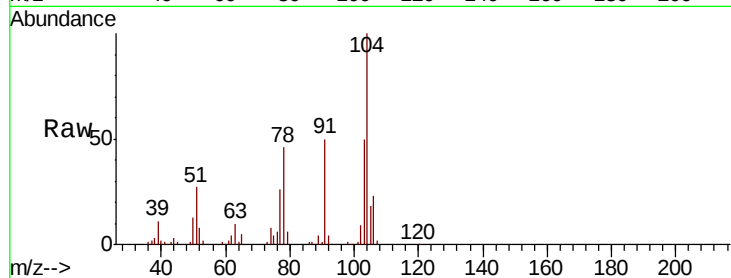
#69
Stvrene
Concen: 4.283 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. 0.00 min
Lab File: VN051613.D
Acq: 28 Sep 2018 10:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
104	100		
78	50.6	40.3	60.5
103	56.7	45.7	68.5

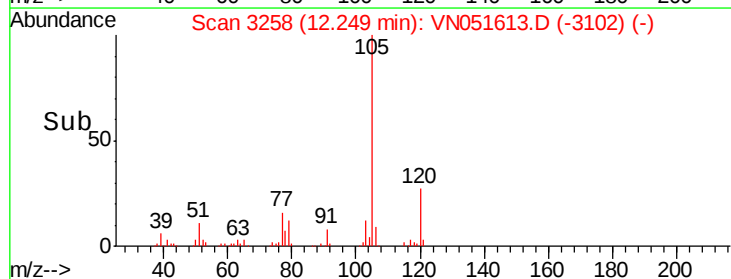
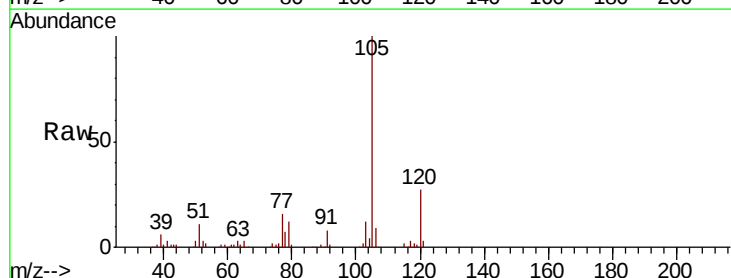
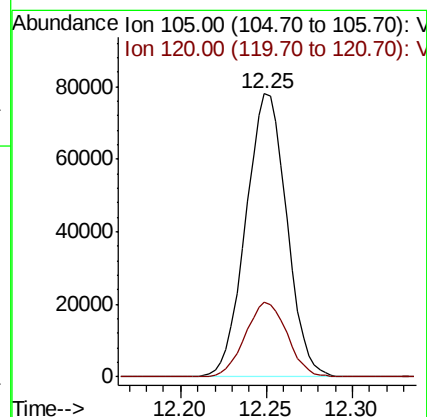
Manual Integrations
APPROVED

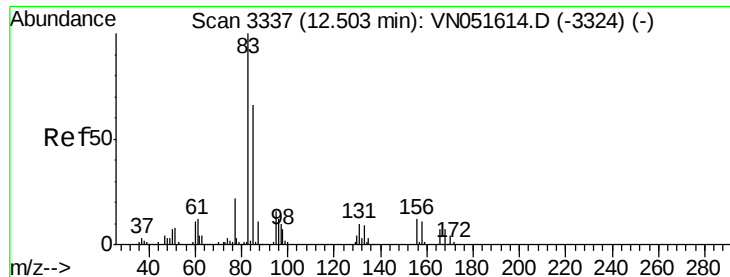
MMDadoda
10/3/2018 5:27:39 PM



#70
Isopropylbenzene
Concen: 4.492 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN051613.D
Acq: 28 Sep 2018 10:42

Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.0	18.7	34.7





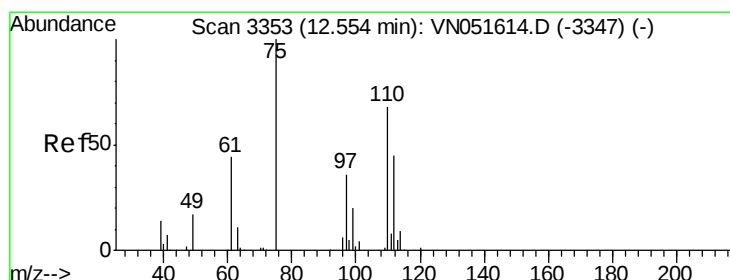
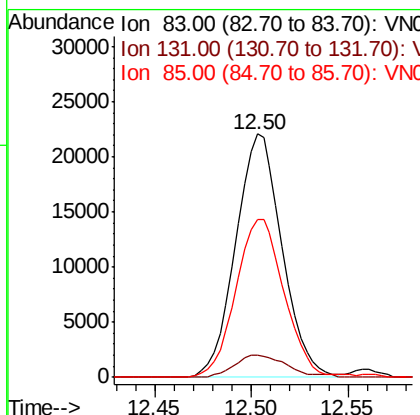
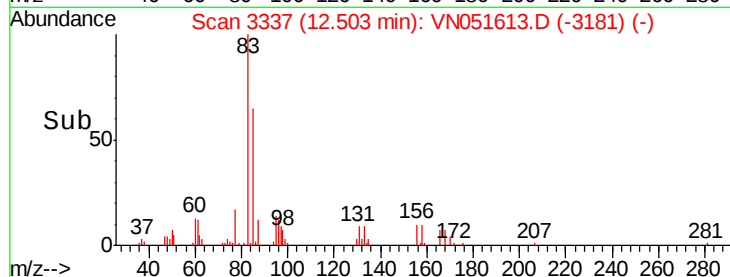
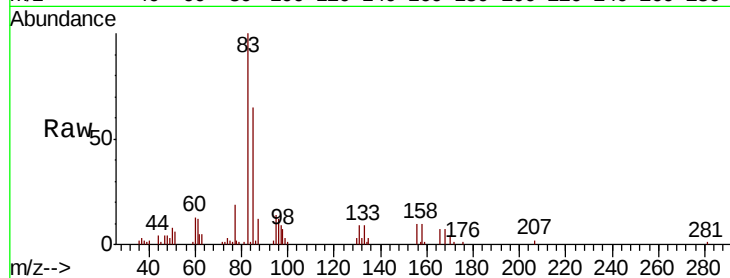
#71
 1,1,2,2-Tetrachloroethane
 Concen: 5.293 ug/l
 RT: 12.50 min Scan# 3337
 Delta R.T. 0.00 min
 Lab File: VN051613.D
 Acq: 28 Sep 2018 10:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	83	Resp	36718
Ion Ratio	100	Lower	Upper
83	100		
131	9.8	5.2	15.6
85	67.3	32.0	96.2

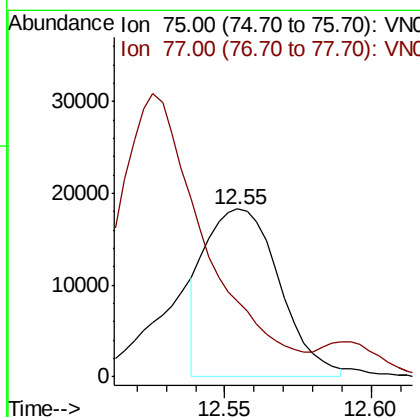
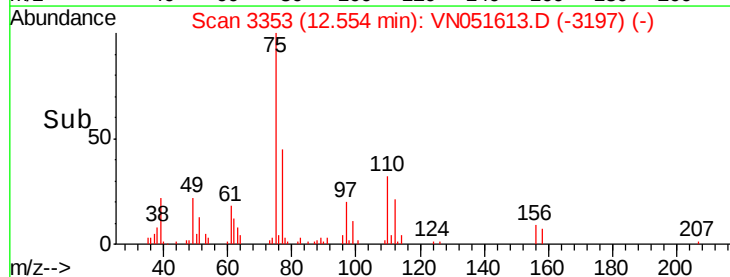
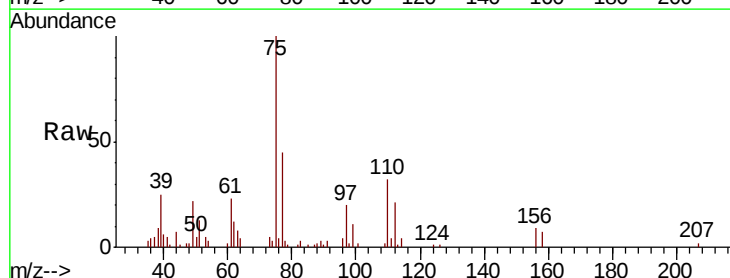
Manual Integrations
 APPROVED

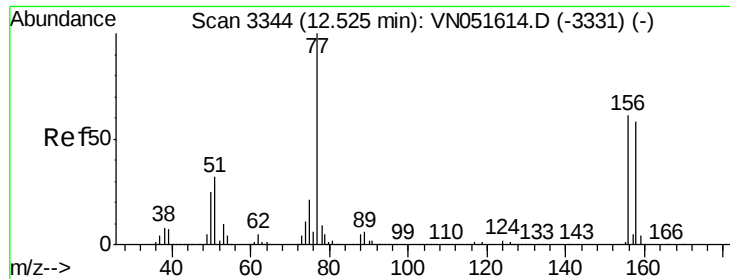
MMDadoda
 10/3/2018 5:27:39 PM



#72
 1,2,3-Trichloropropane
 Concen: 5.648 ug/l m
 RT: 12.55 min Scan# 3353
 Delta R.T. 0.00 min
 Lab File: VN051613.D
 Acq: 28 Sep 2018 10:42

Tgt Ion	75	Resp	32279
Ion Ratio	100	Lower	Upper
75	100		
77	201.9	0.0	492.2





#73

Bromobenzene

Concen: 4.828 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN051613.D

Acq: 28 Sep 2018 10:42

Instrument :

MSVOA_N

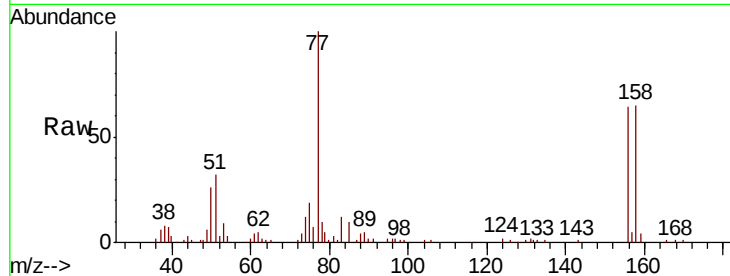
ClientSampled :

VSTDIC005

Tot Ion	Ion	Ratio	Lower	Upper
156	100			
77	189.2	0.0	385.2	
158	100.9	0.0	195.6	

Manual Integrations
APPROVED

MMDadoda
10/3/2018 5:27:39 PM

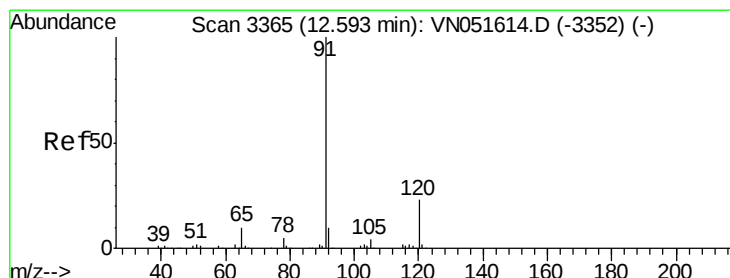
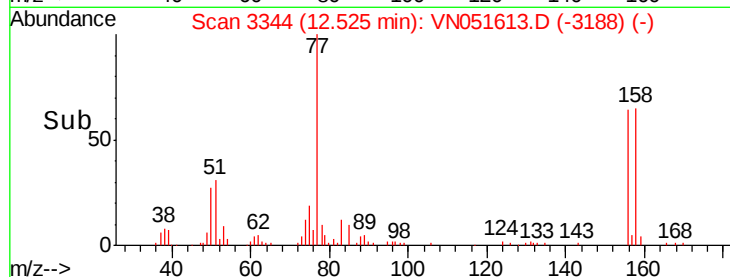
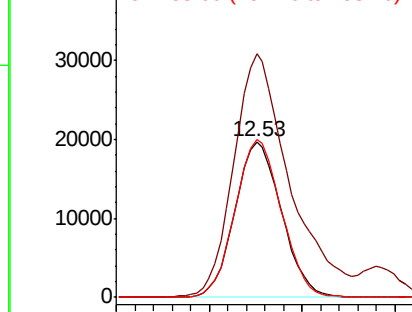


Abundance

Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VN

Ion 158.00 (157.70 to 158.70): V



#74

n-propylbenzene

Concen: 4.372 ug/l

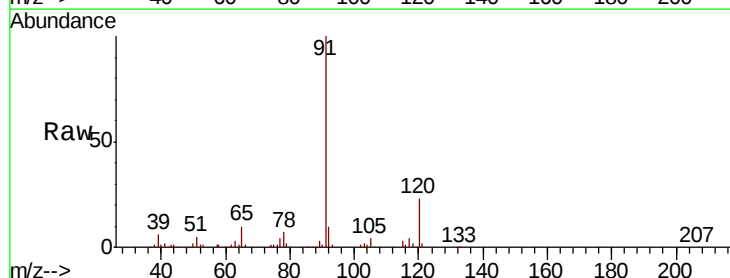
RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN051613.D

Acq: 28 Sep 2018 10:42

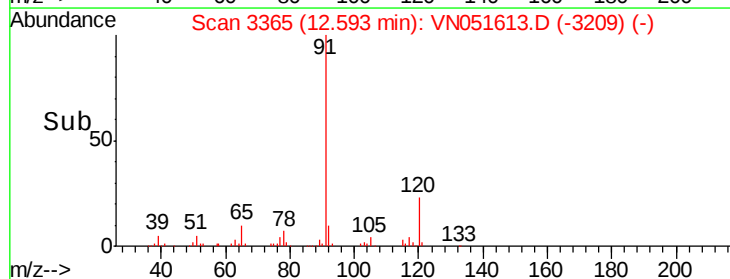
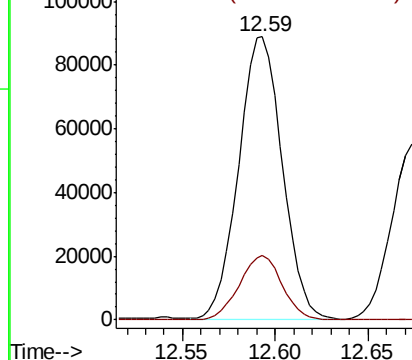
Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
120	22.3	0.0	45.4	

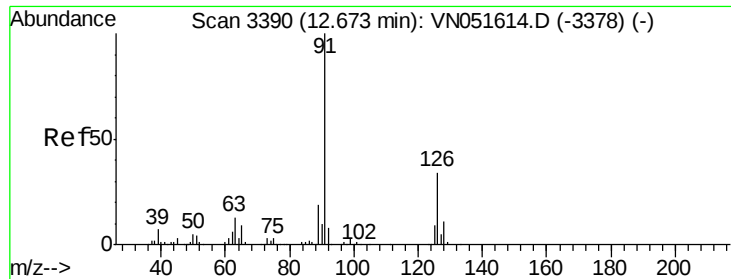


Abundance

Ion 91.00 (90.70 to 91.70): VN

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 4.698 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN051613.D

Acq: 28 Sep 2018 10:42

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

Tot Ion: 91 Resp: 93642

Ion Ratio Lower Upper

91 100

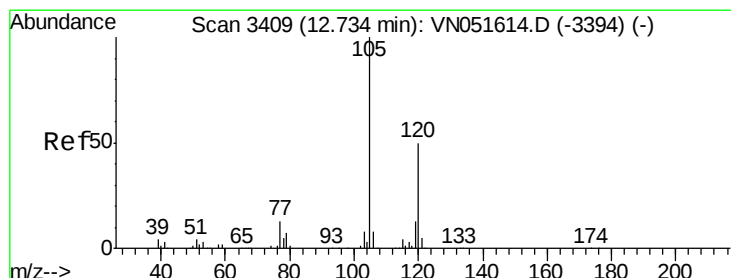
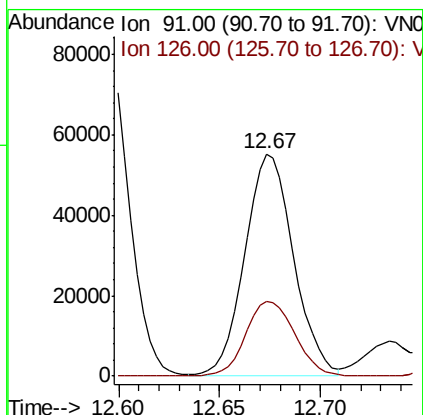
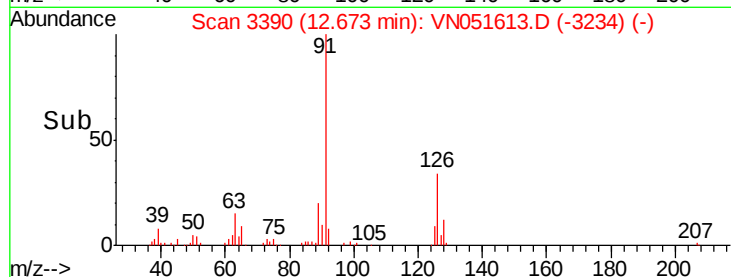
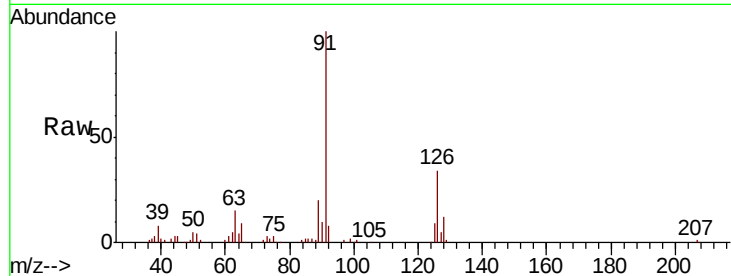
126 33.8 0.0 69.2

Manual Integrations

APPROVED

MMDadoda

10/3/2018 5:27:39 PM



#76

1,3,5-Trimethylbenzene

Concen: 4.487 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN051613.D

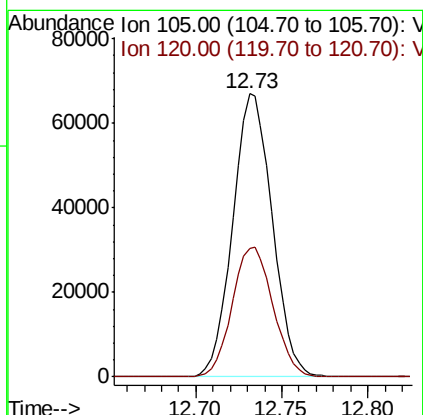
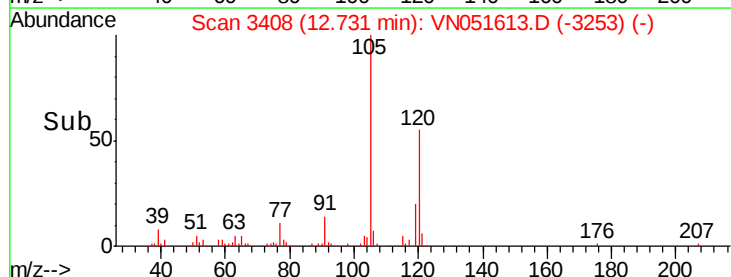
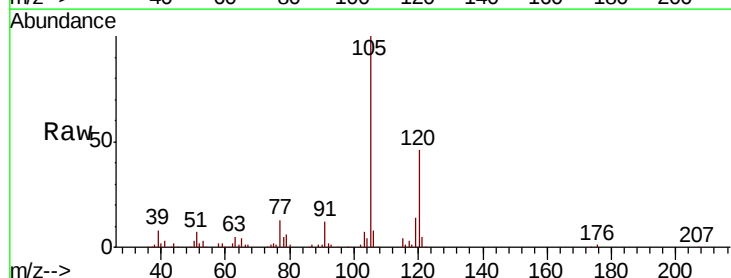
Acq: 28 Sep 2018 10:42

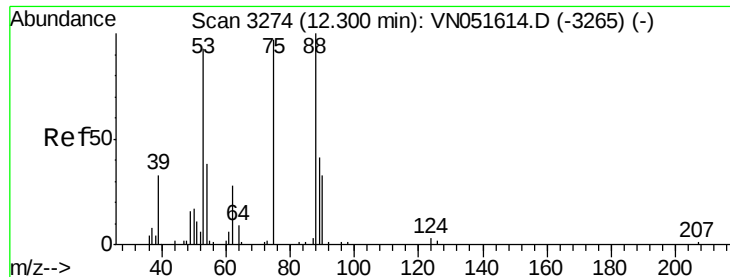
Tgt Ion: 105 Resp: 107493

Ion Ratio Lower Upper

105 100

120 47.2 0.0 99.8





#77

t-1,4-Dichloro-2-butene

Concen: 3.951 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN051613.D

Acq: 28 Sep 2018 10:42

Instrument :

MSVOA_N

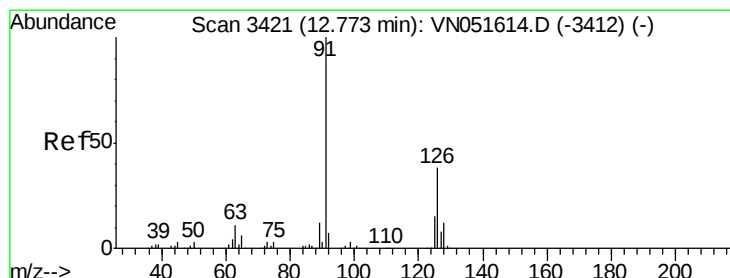
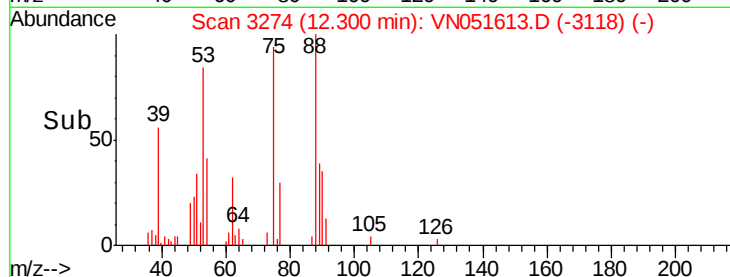
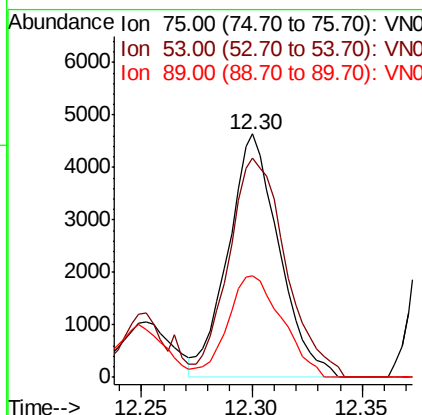
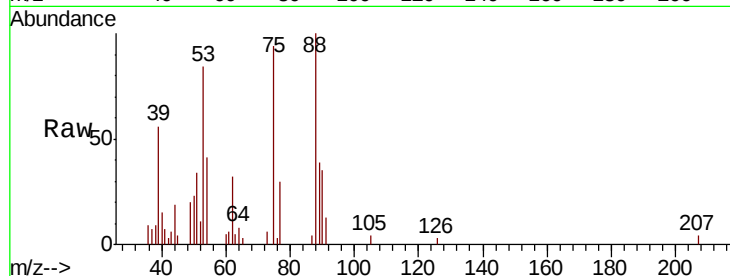
ClientSampled :

VSTDIC005

Tot Ion:	75	Resp:	7422
Ion	Ratio	Lower	Upper
75	100		
53	85.4	48.1	144.4
89	41.9	22.4	67.3

Manual Integrations
APPROVED

MMDadoda
10/3/2018 5:27:39 PM



#78

4-Chlorotoluene

Concen: 4.438 ug/l

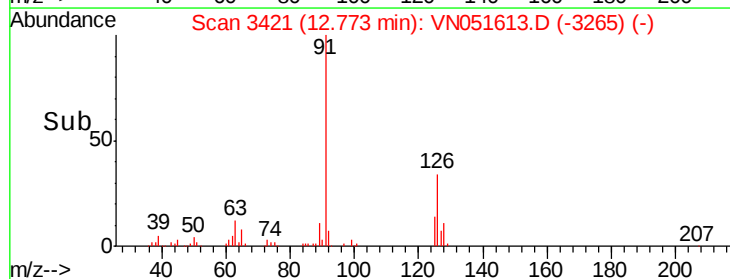
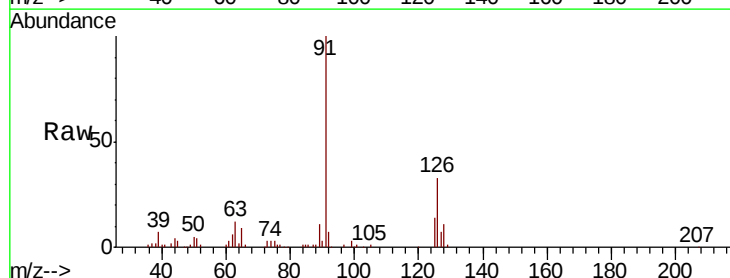
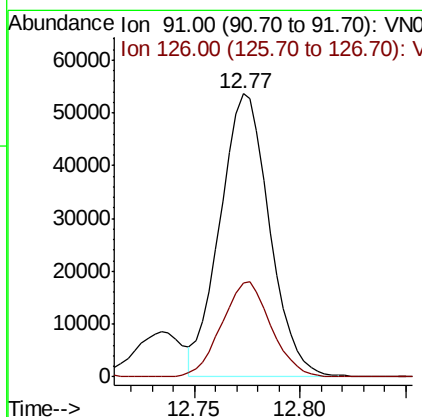
RT: 12.77 min Scan# 3421

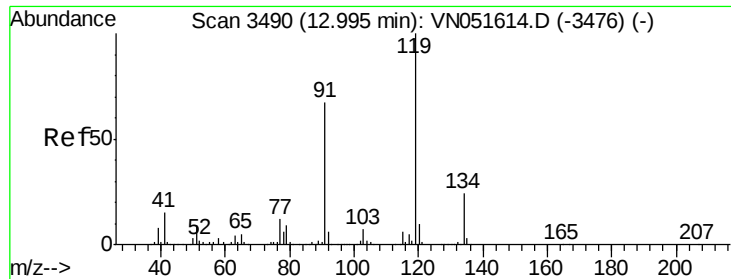
Delta R.T. 0.00 min

Lab File: VN051613.D

Acq: 28 Sep 2018 10:42

Tgt Ion:	91	Resp:	87375
Ion	Ratio	Lower	Upper
91	100		
126	33.6	0.0	68.6





#79

tert-butylbenzene

Concen: 4.519 ug/l

RT: 12.99 min Scan# 3490

Delta R.T. 0.00 min

Lab File: VN051613.D

Acq: 28 Sep 2018 10:42

Instrument :

MSVOA_N

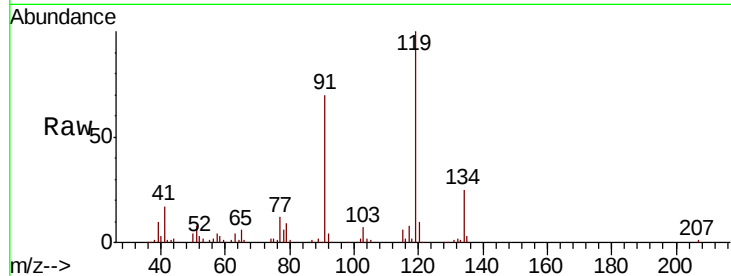
ClientSampleId :

VSTDIC005

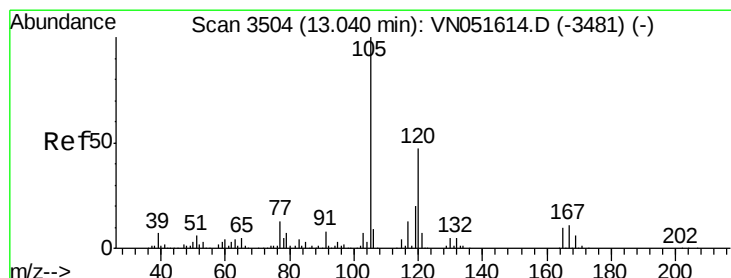
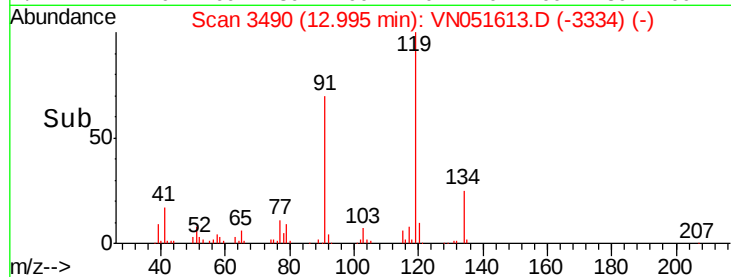
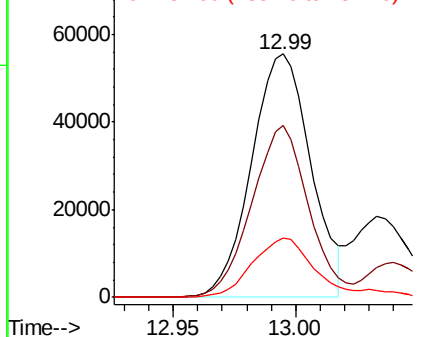
Tot Ion:	119	Resp:	93796
Ion	Ratio	Lower	Upper
119	100		
91	67.9	0.0	132.4
134	24.7	0.0	48.4

Manual Integrations
APPROVED

MMDadoda
10/3/2018 5:27:39 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: 4.189 ug/l

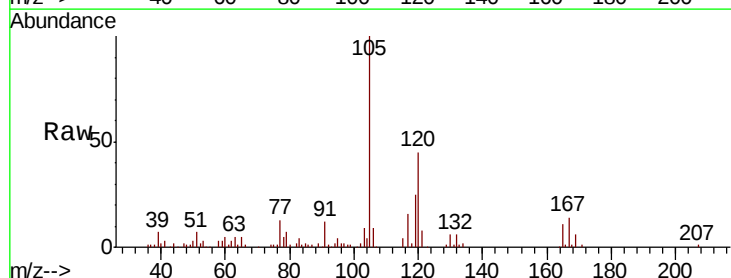
RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

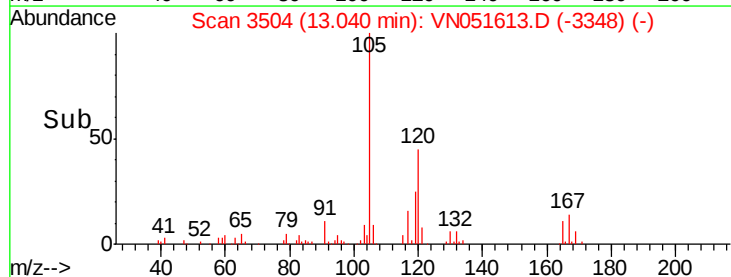
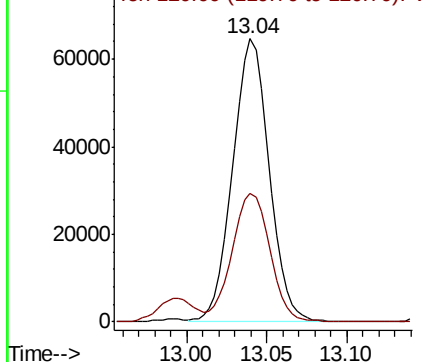
Lab File: VN051613.D

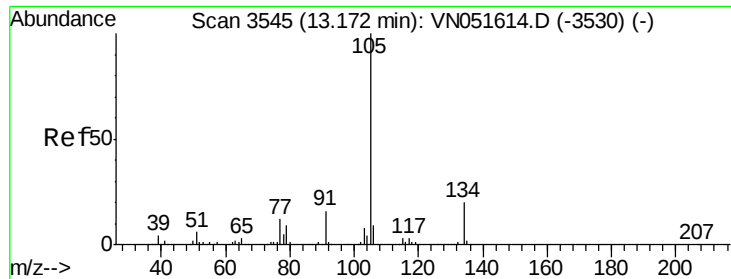
Acq: 28 Sep 2018 10:42

Tgt Ion:	105	Resp:	100247
Ion	Ratio	Lower	Upper
105	100		
120	47.4	0.0	91.6



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





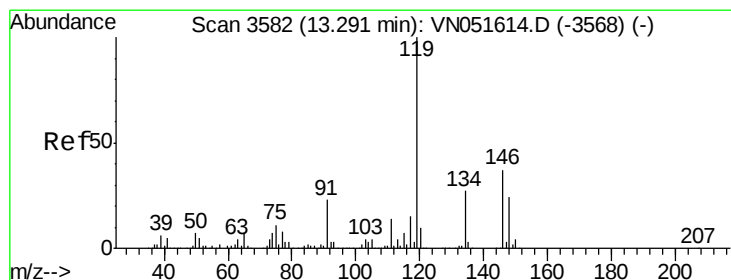
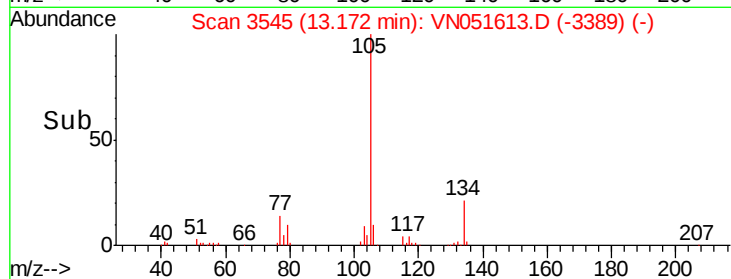
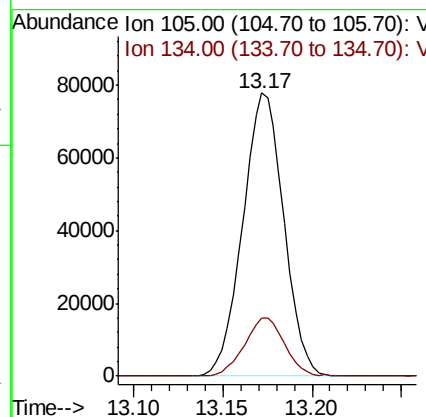
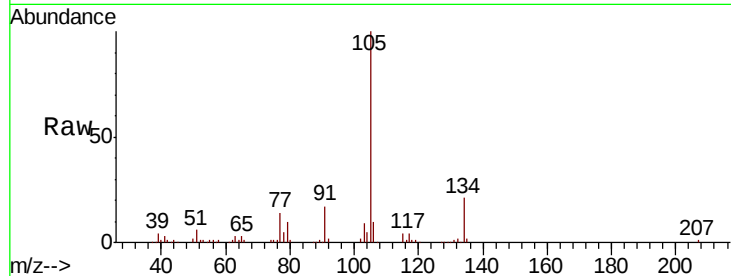
#81
 sec-Butylbenzene
 Concen: 4.360 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN051613.D
 Acq: 28 Sep 2018 10:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
105	100		
134	20.3	0.0	39.8

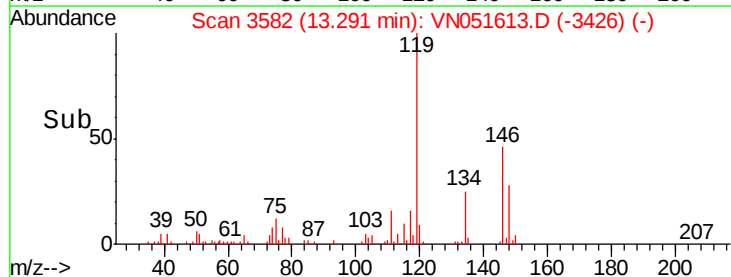
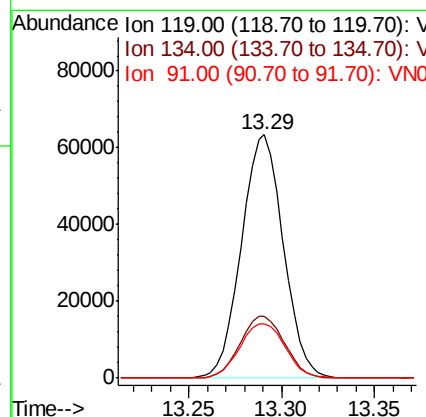
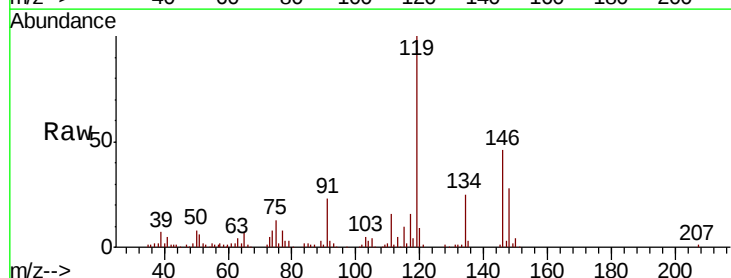
Manual Integrations
 APPROVED

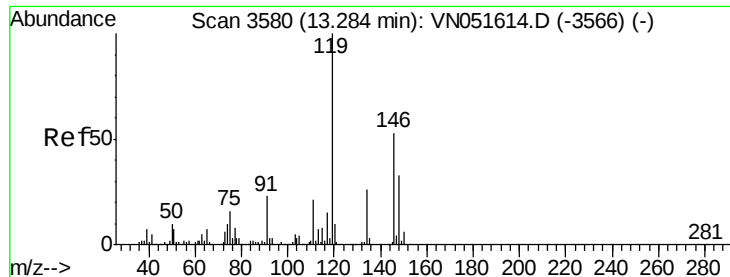
MMDadoda
 10/3/2018 5:27:39 PM



#82
 p-Isopropyltoluene
 Concen: 4.057 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN051613.D
 Acq: 28 Sep 2018 10:42

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.9	0.0	52.0
91	24.6	0.0	46.0





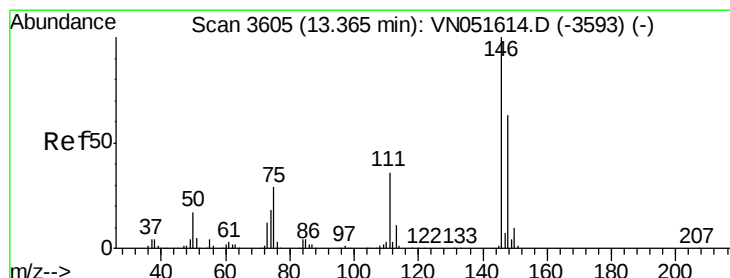
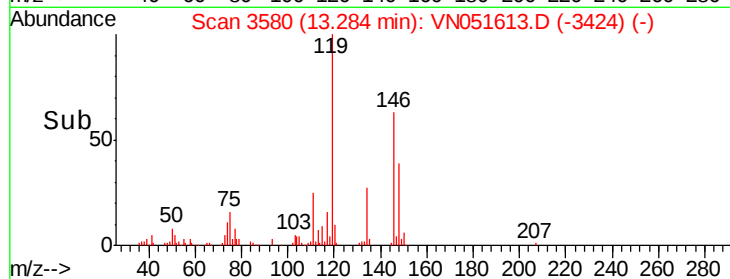
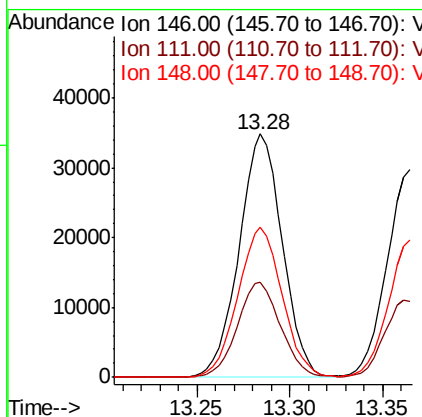
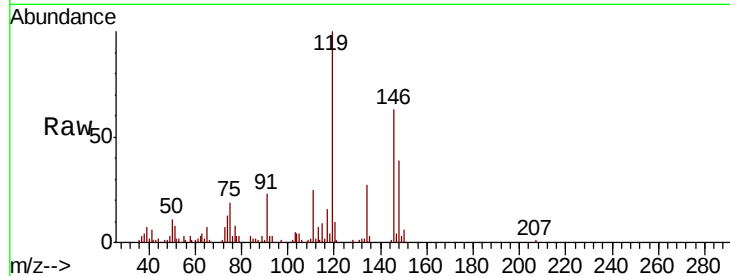
#83
 1,3-Dichlorobenzene
 Concen: 4.520 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN051613.D
 Acq: 28 Sep 2018 10:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.2	19.9	59.6
148	63.2	32.4	97.2

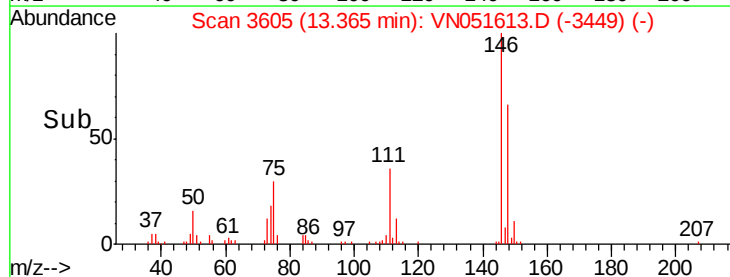
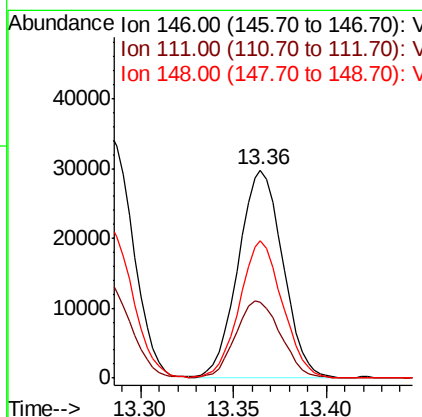
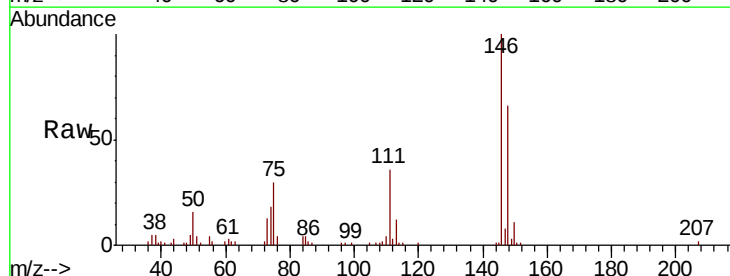
Manual Integrations
 APPROVED

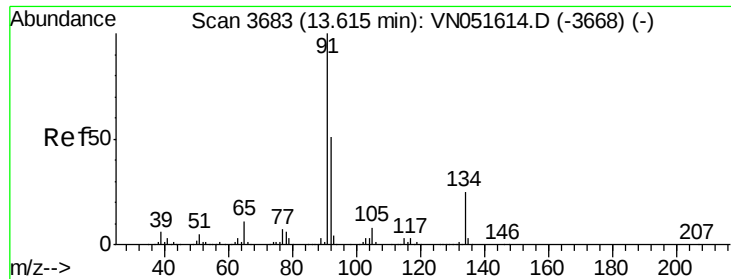
MMDadoda
 10/3/2018 5:27:39 PM



#84
 1,4-Dichlorobenzene
 Concen: 4.259 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN051613.D
 Acq: 28 Sep 2018 10:42

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.6	18.6	55.8
148	63.4	32.1	96.5





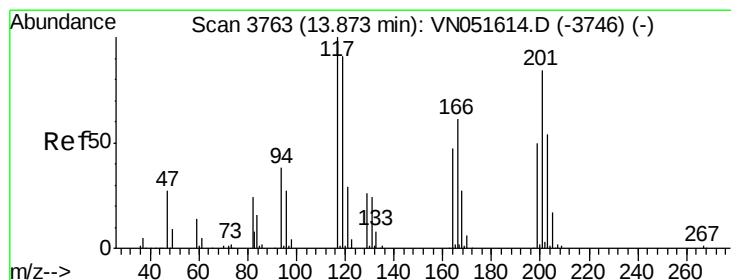
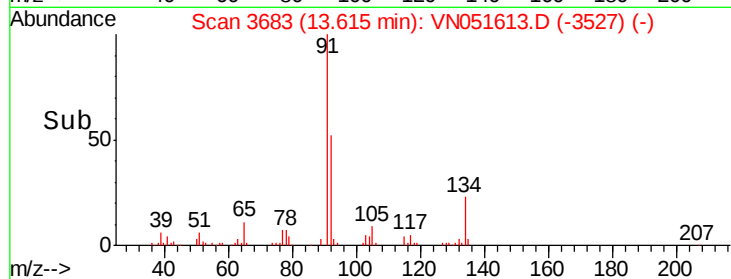
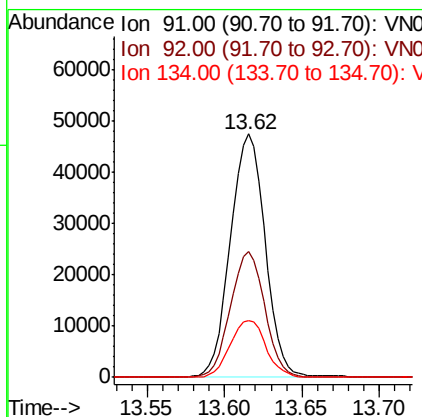
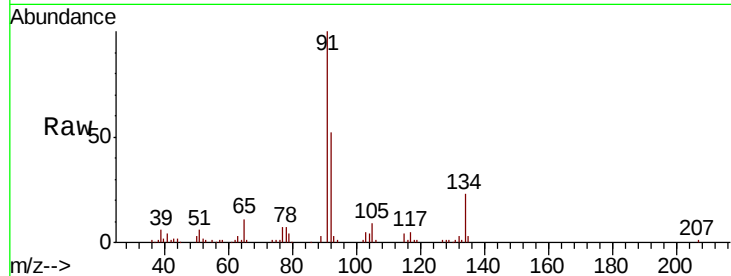
#85
n-Butylbenzene
Concen: 3.681 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN051613.D
Acq: 28 Sep 2018 10:42

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
91	100		
92	50.8	0.0	101.6
134	23.9	0.0	50.6

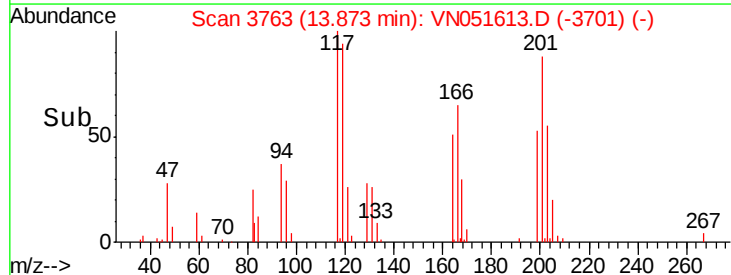
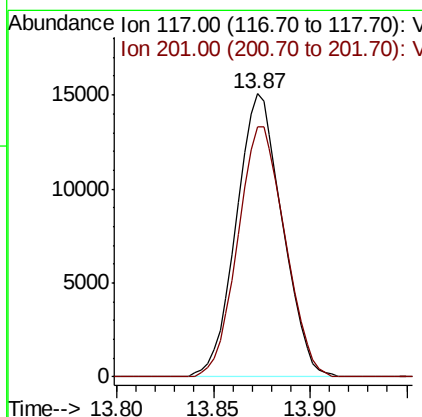
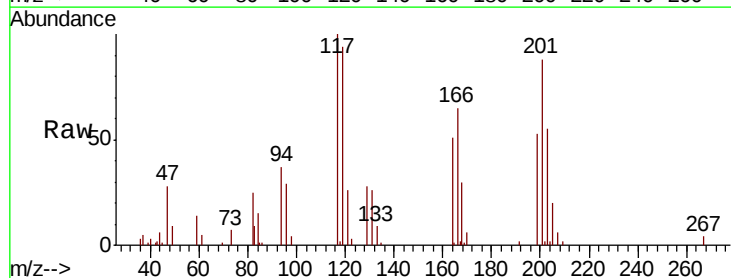
Manual Integrations
APPROVED

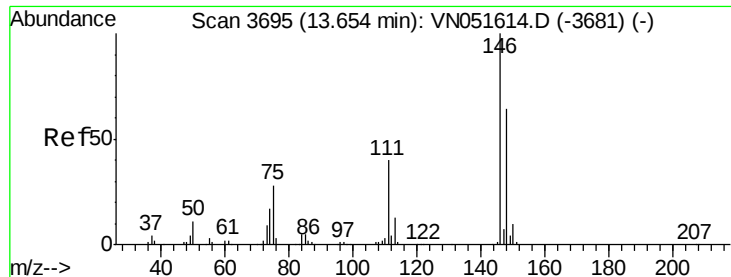
MMDadoda
10/3/2018 5:27:39 PM



#86
Hexachloroethane
Concen: 5.082 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN051613.D
Acq: 28 Sep 2018 10:42

Tgt Ion	Ratio	Lower	Upper
117	100		
201	90.5	42.9	128.5





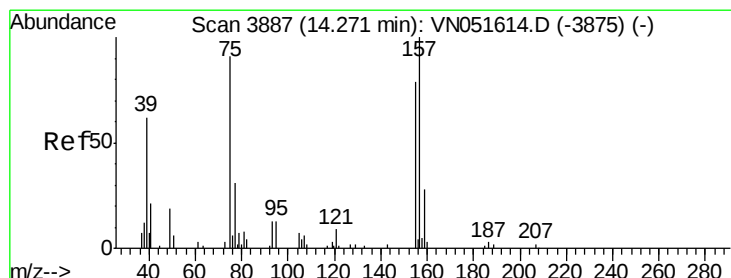
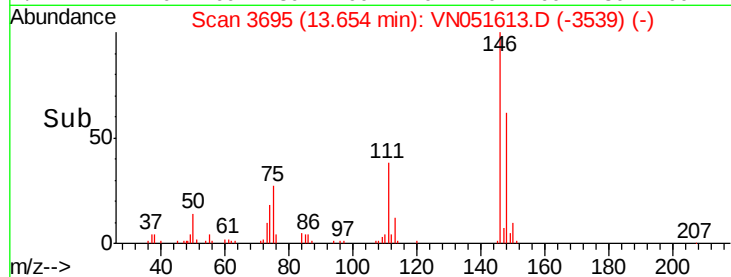
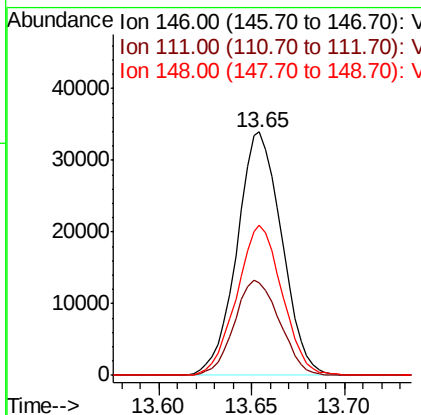
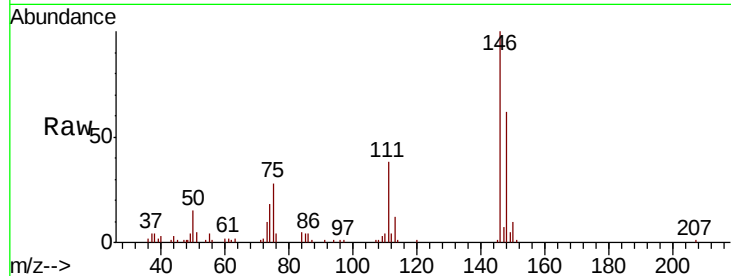
#87
 1,2-Dichlorobenzene
 Concen: 4.684 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN051613.D
 Acq: 28 Sep 2018 10:42

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.3	20.1	60.3
148	62.3	32.1	96.5

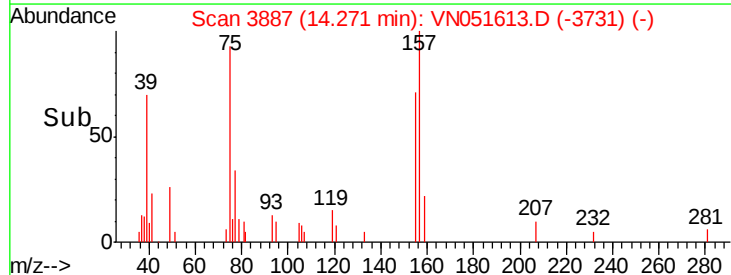
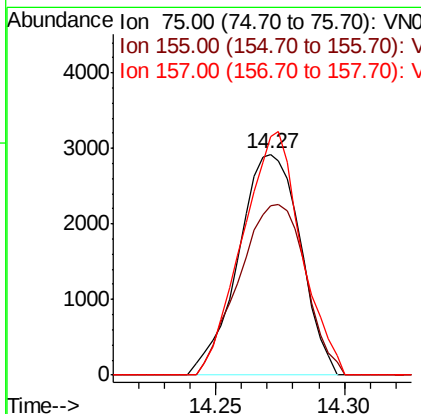
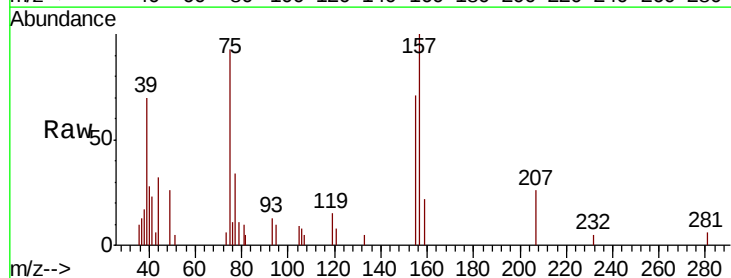
Manual Integrations
 APPROVED

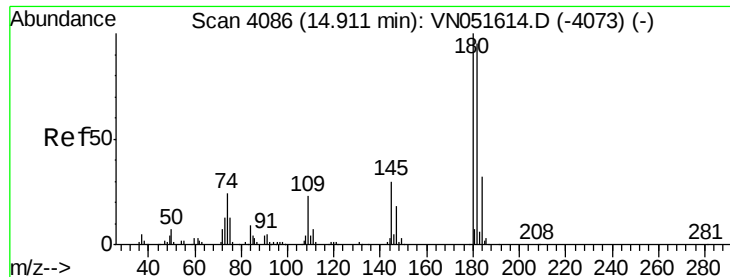
MMDadoda
 10/3/2018 5:27:39 PM



#88
 1,2-Dibromo-3-Chloropropane
 Concen: 4.854 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN051613.D
 Acq: 28 Sep 2018 10:42

Tgt Ion	Ratio	Lower	Upper
75	100		
155	82.9	67.1	100.7
157	104.6	85.8	128.6





#89

1,2,4-Trichlorobenzene

Concen: 3.067 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. -0.00 min

Lab File: VN051613.D

Acq: 28 Sep 2018 10:42

Instrument :

MSVOA_N

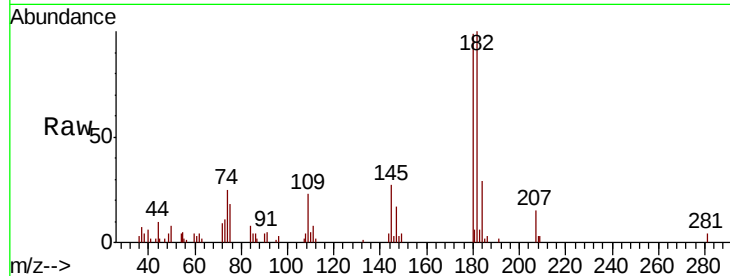
ClientSampled :

VSTDIC005

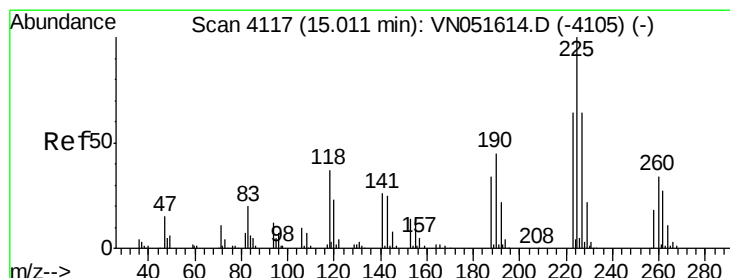
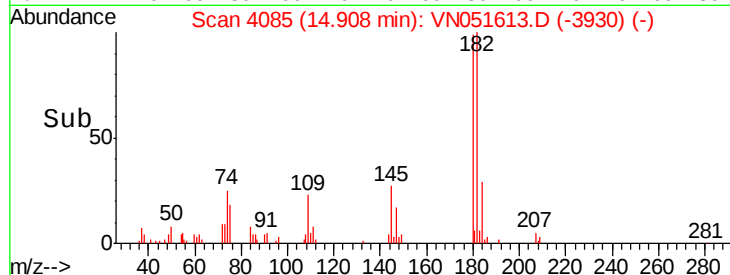
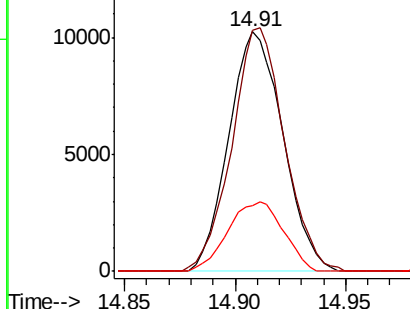
Tot Ion:	180	Resp:	17461
Ion Ratio	Lower	Upper	
180	100		
182	98.6	75.2	112.8
145	29.6	22.9	34.3

Manual Integrations
APPROVED

MMDadoda
10/3/2018 5:27:39 PM



Abundance Ion 180.00 (179.70 to 180.70): V
Ion 182.00 (181.70 to 182.70): V
Ion 145.00 (144.70 to 145.70): V



#90

Hexachlorobutadiene

Concen: 5.104 ug/l

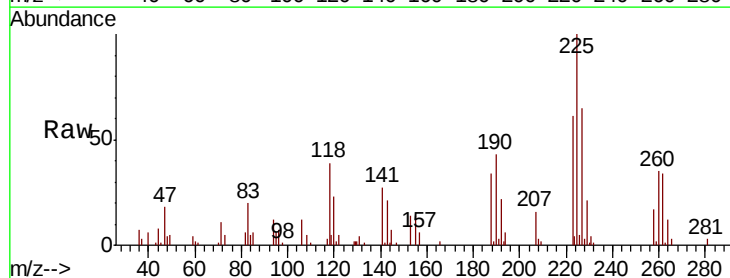
RT: 15.01 min Scan# 4117

Delta R.T. 0.00 min

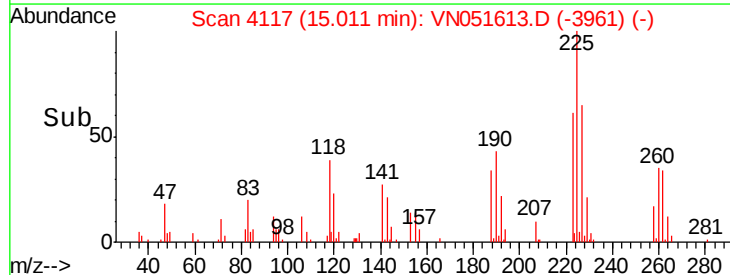
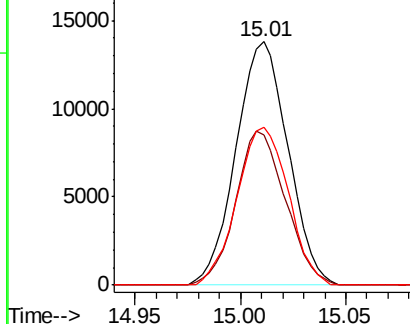
Lab File: VN051613.D

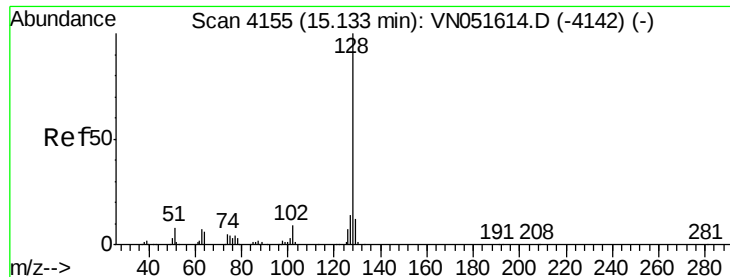
Acq: 28 Sep 2018 10:42

Tgt Ion:	225	Resp:	23687
Ion Ratio	Lower	Upper	
225	100		
223	60.6	0.0	131.0
227	63.9	0.0	129.0



Abundance Ion 225.00 (224.70 to 225.70): V
Ion 223.00 (222.70 to 223.70): V
Ion 227.00 (226.70 to 227.70): V





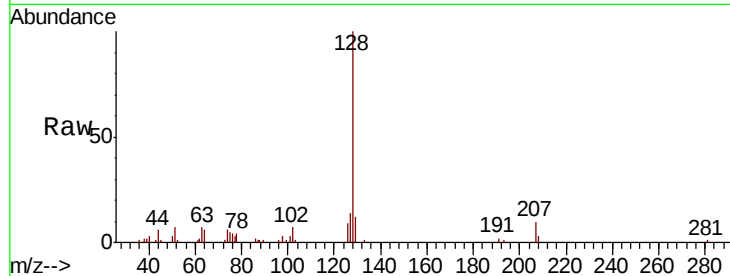
#91
Naphthalene
Concen: 3.199 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN051613.D
Acq: 28 Sep 2018 10:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.7	10.8	16.2
129	11.0	9.1	13.7

Manual Integrations
APPROVED

MMDadoda
10/3/2018 5:27:39 PM

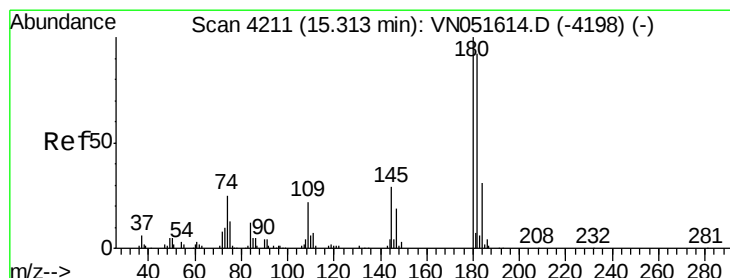
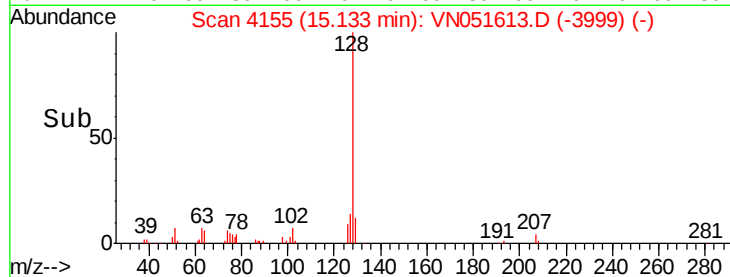
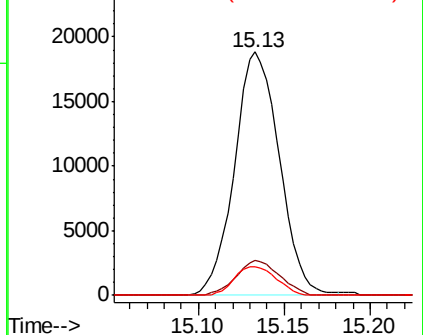


Abundance

Ion 128.00 (127.70 to 128.70): V

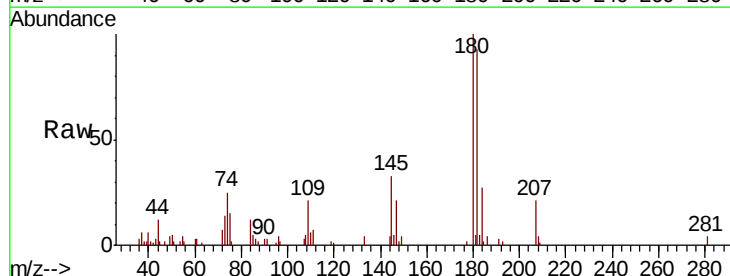
Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#92
1,2,3-Trichlorobenzene
Concen: 3.737 ug/l
RT: 15.32 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN051613.D
Acq: 28 Sep 2018 10:42

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.6	0.0	191.8
145	29.9	0.0	60.4



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

