

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN031519\
 Data File : VN054321.D
 Acq On : 15 Mar 2019 20:33
 Operator : JC/SP
 Sample : VN0315WBSD01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0315WBSD01

Manual Integrations
 APPROVED

MMDadoda
 3/16/2019 11:09:23 AM

Quant Time: Mar 16 04:40:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 13 03:33:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1334492	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2017164	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1746444	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	783337	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	725766	51.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.42%	
35) Dibromofluoromethane	7.59	113	670445	51.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.06%	
50) Toluene-d8	10.09	98	2383576	49.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.22%	
62) 4-Bromofluorobenzene	12.40	95	798459	47.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.98%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.85	85	254254	20.103	ug/l	99
3) Chloromethane	2.06	50	230027	18.723	ug/l	98
4) Vinyl Chloride	2.19	62	274945	19.580	ug/l	99
5) Bromomethane	2.57	94	176833	18.183	ug/l	98
6) Chloroethane	2.71	64	166003	19.539	ug/l	100
7) Trichlorofluoromethane	3.02	101	363532	19.472	ug/l	98
8) Diethyl Ether	3.41	74	190407	22.381	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	3.75	101	283777	20.284	ug/l	100
10) Methyl Iodide	3.94	142	388134	20.448	ug/l	98
11) Tert butyl alcohol	4.83	59	105200	108.278	ug/l #	86
12) 1,1-Dichloroethene	3.73	96	294209	21.221	ug/l	96
13) Acrolein	3.61	56	62555	67.946	ug/l	99
14) Allyl chloride	4.32	41	342283	19.242	ug/l	100
15) Acrylonitrile	5.00	53	474813	118.973	ug/l	99
16) Acetone	3.82	43	351748	86.683	ug/l	99
17) Carbon Disulfide	4.04	76	646172	18.592	ug/l	100
18) Methyl Acetate	4.33	43	220951	26.913	ug/l	99
19) Methyl tert-butyl Ether	5.06	73	768126	22.352	ug/l	99
20) Methylene Chloride	4.55	84	287214	21.556	ug/l	97
21) trans-1,2-Dichloroethene	5.03	96	273028	20.554	ug/l	98
22) Diisopropyl ether	5.96	45	746443	21.026	ug/l	98
23) Vinyl Acetate	5.90	43	2691471	102.824	ug/l	99
24) 1,1-Dichloroethane	5.85	63	487038	21.366	ug/l	99
25) 2-Butanone	6.85	43	546357	114.716	ug/l	98
26) 2,2-Dichloropropane	6.82	77	279062	13.921	ug/l	97
27) cis-1,2-Dichloroethene	6.83	96	320424	21.622	ug/l	95
28) Bromochloromethane	7.19	49	204626	21.958	ug/l	96
29) Tetrahydrofuran	7.22	42	370688	121.051	ug/l	98
30) Chloroform	7.37	83	514444	21.628	ug/l	99
31) Cyclohexane	7.65	56	415906	18.748	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	436404	20.315	ug/l	100
36) 1,1-Dichloropropene	7.79	75	366350	19.721	ug/l	98
37) Ethyl Acetate	6.94	43	238463	22.341	ug/l	98
38) Carbon Tetrachloride	7.77	117	373490	19.172	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN031519\
 Data File : VN054321.D
 Acq On : 15 Mar 2019 20:33
 Operator : JC/SP
 Sample : VN0315WBSD01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0315WBSD01

Manual Integrations
 APPROVED

MMDadoda
 3/16/2019 11:09:23 AM

Quant Time: Mar 16 04:40:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 13 03:33:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	405161	17.727	ug/l	98
40) Benzene	8.04	78	1117311	21.019	ug/l	100
41) Methacrylonitrile	7.18	41	131347	21.552	ug/l	97
42) 1,2-Dichloroethane	8.13	62	376752	20.992	ug/l	98
43) Isopropyl Acetate	8.17	43	390083	20.821	ug/l	98
44) Trichloroethene	8.83	130	354265	21.453	ug/l	96
45) 1,2-Dichloropropane	9.12	63	287483	21.780	ug/l	100
46) Dibromomethane	9.21	93	193622	21.710	ug/l	100
47) Bromodichloromethane	9.40	83	362162	20.256	ug/l	97
48) Methyl methacrylate	9.20	41	208670	21.947	ug/l	97
49) 1,4-Dioxane	9.21	88	67235	499.933	ug/l	99
51) 4-Methyl-2-Pentanone	9.99	43	1162527	117.251	ug/l	97
52) Toluene	10.16	92	703675	20.877	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	315350	16.794	ug/l	98
54) cis-1,3-Dichloropropene	9.84	75	389796	18.709	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	274742	22.324	ug/l	99
56) Ethyl methacrylate	10.43	69	319683	21.784	ug/l	97
57) 1,3-Dichloropropane	10.71	76	443200	22.023	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	611307	106.383	ug/l	99
59) 2-Hexanone	10.75	43	740808	112.289	ug/l	99
60) Dibromochloromethane	10.90	129	276499	19.960	ug/l	99
61) 1,2-Dibromoethane	11.01	107	280292	22.411	ug/l	100
64) Tetrachloroethene	10.63	164	345992	20.491	ug/l	97
65) Chlorobenzene	11.43	112	802097	20.917	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	288890	20.738	ug/l	99
67) Ethyl Benzene	11.51	91	1293866	20.354	ug/l	100
68) m/p-Xylenes	11.62	106	1034628	41.643	ug/l	98
69) o-Xylene	11.95	106	514395	21.239	ug/l	98
70) Styrene	11.96	104	789957	20.797	ug/l	100
71) Bromoform	12.13	173	182608	18.738	ug/l #	99
73) Isopropylbenzene	12.25	105	1339684	21.376	ug/l	100
74) N-amyl acetate	12.07	43	302065	21.714	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.51	83	322588	24.159	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	241610m	20.974	ug/l	
77) Bromobenzene	12.53	156	360130	21.716	ug/l	97
78) n-propylbenzene	12.59	91	1386222	20.385	ug/l	100
79) 2-Chlorotoluene	12.68	91	870603	21.292	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	1068650	20.500	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	47990	14.241	ug/l #	79
82) 4-Chlorotoluene	12.77	91	843408	20.658	ug/l	99
83) tert-Butylbenzene	12.99	119	975132	20.323	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	1074132	21.003	ug/l	99
85) sec-Butylbenzene	13.17	105	1212396	19.484	ug/l	100
86) p-Isopropyltoluene	13.29	119	1040507	19.060	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	582523	20.846	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	570114	20.768	ug/l	100
89) n-Butylbenzene	13.62	91	730694	17.616	ug/l	100
90) Hexachloroethane	13.88	117	152863	16.911	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	597545	21.874	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	46465	22.488	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN031519\
Data File : VN054321.D
Acq On : 15 Mar 2019 20:33
Operator : JC/SP
Sample : VN0315WBSD01
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0315WBSD01

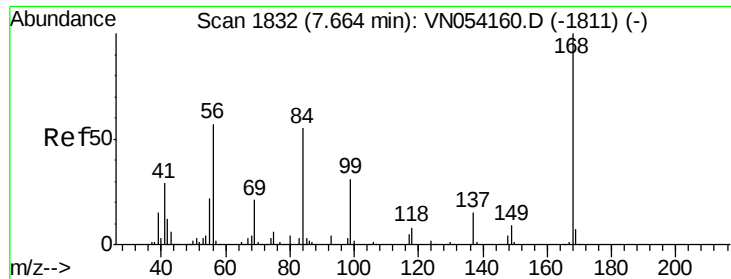
Manual Integrations
APPROVED

MMDadoda
3/16/2019 11:09:23 AM

Quant Time: Mar 16 04:40:16 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 13 03:33:31 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	268198	17.960	ug/l	98
94) Hexachlorobutadiene	15.01	225	168913	16.233	ug/l	99
95) Naphthalene	15.13	128	644523	20.927	ug/l	99
96) 1,2,3-Trichlorobenzene	15.32	180	279939	19.286	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN054321.D

Acq: 15 Mar 2019 20:33

Instrument :

MSVOA_N

ClientSampleId :

VN0315WBSD01

Tgt Ion:168 Resp: 1334492

Ion Ratio Lower Upper

168 100

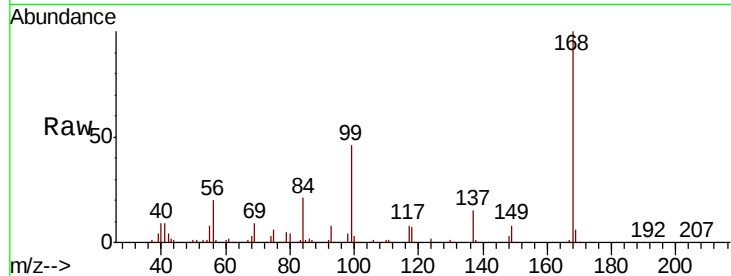
99 46.1 37.1 55.7

Manual Integrations

APPROVED

MMDadoda

3/16/2019 11:09:23 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

600000

500000

400000

300000

200000

100000

0

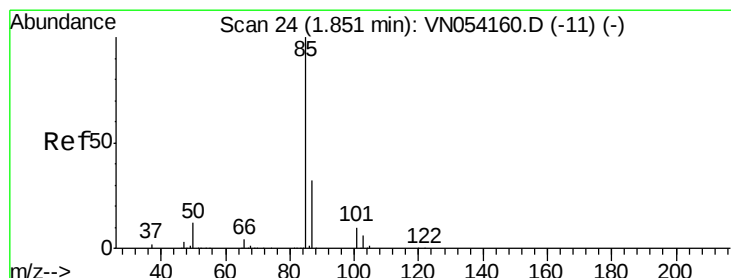
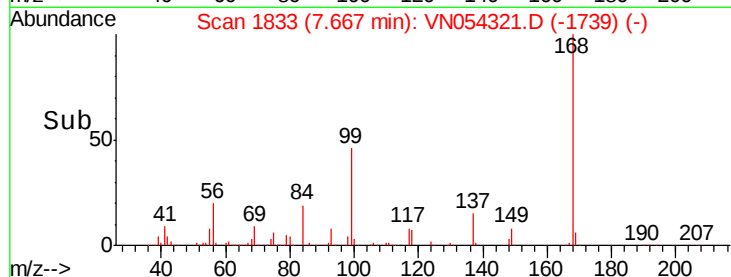
7.67

7.60

7.80

8.00

Time-->



#2

Dichlorodifluoromethane

Concen: 20.103 ug/l

RT: 1.85 min Scan# 25

Delta R.T. 0.00 min

Lab File: VN054321.D

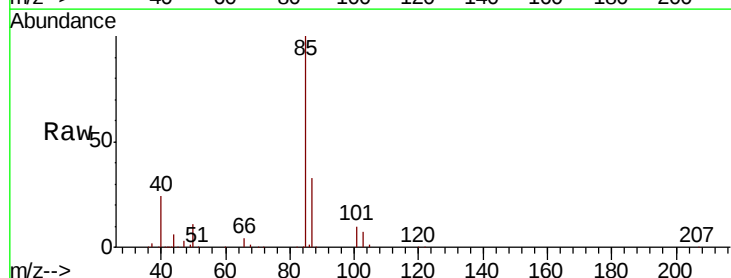
Acq: 15 Mar 2019 20:33

Tgt Ion: 85 Resp: 254254

Ion Ratio Lower Upper

85 100

87 32.6 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

200000

150000

100000

50000

0

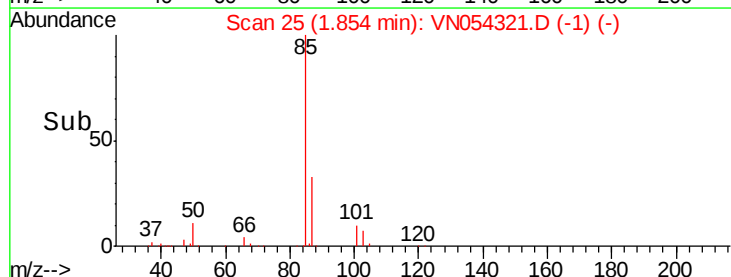
1.85

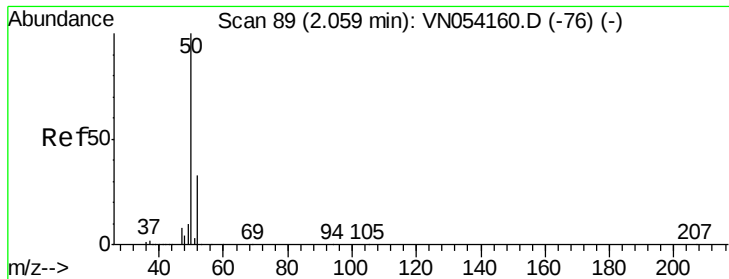
1.80

1.90

1.95

Time-->





#3

Chloromethane

Concen: 18.723 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN054321.D

Acq: 15 Mar 2019 20:33

Instrument :

MSVOA_N

ClientSampleId :

VN0315WBSD01

Tgt Ion: 50 Resp: 230027

Ion Ratio Lower Upper

50 100

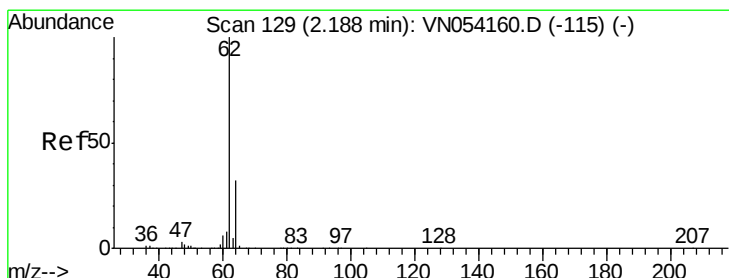
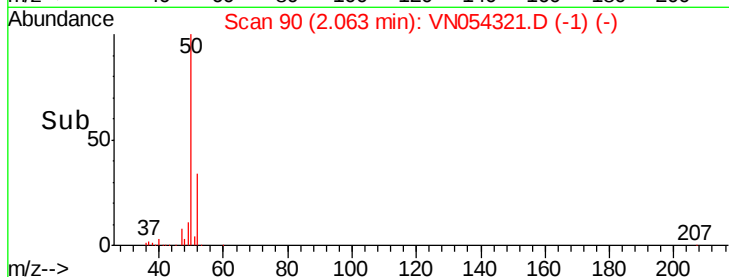
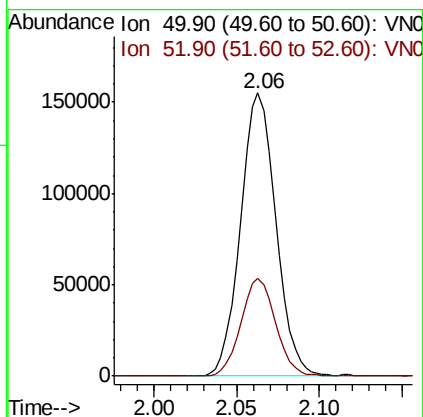
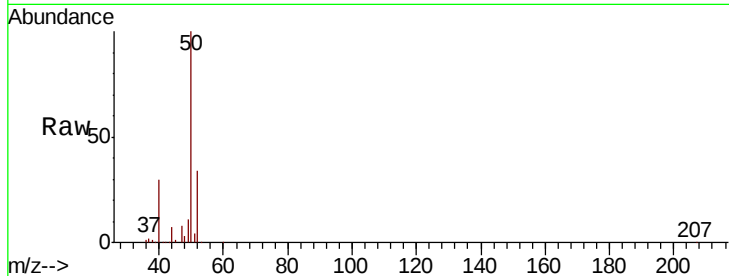
52 34.3 26.4 39.6

Manual Integrations

APPROVED

MMDadoda

3/16/2019 11:09:23 AM



#4

Vinyl Chloride

Concen: 19.580 ug/l

RT: 2.19 min Scan# 129

Delta R.T. 0.00 min

Lab File: VN054321.D

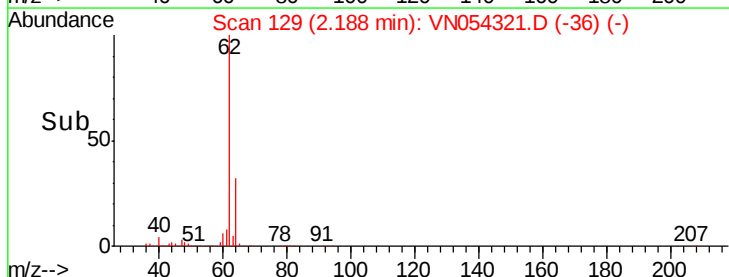
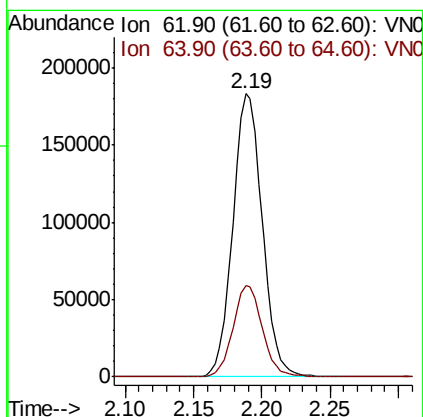
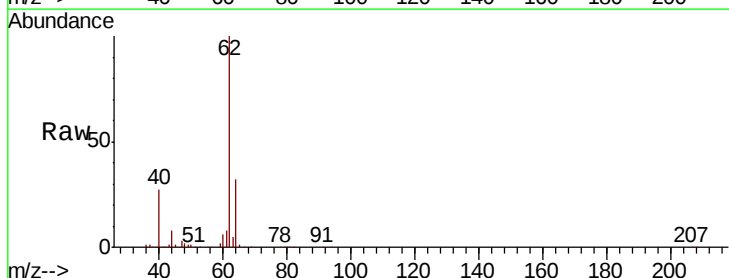
Acq: 15 Mar 2019 20:33

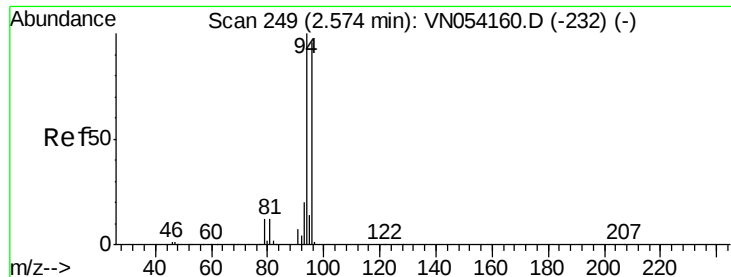
Tgt Ion: 62 Resp: 274945

Ion Ratio Lower Upper

62 100

64 32.4 25.5 38.3





#5

Bromomethane

Concen: 18.183 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.00 min

Lab File: VN054321.D

Acq: 15 Mar 2019 20:33

Instrument :

MSVOA_N

ClientSampleId :

VN0315WBSD01

Tgt Ion: 94 Resp: 176833

Ion Ratio Lower Upper

94 100

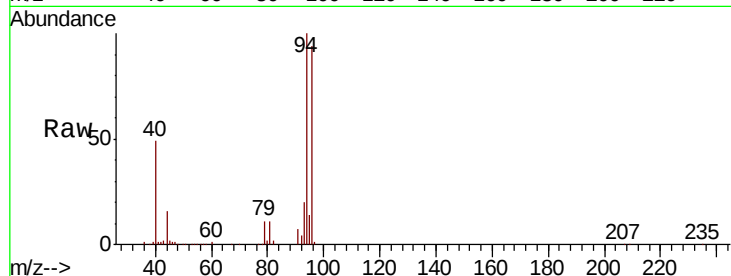
96 94.1 77.0 115.4

Manual Integrations

APPROVED

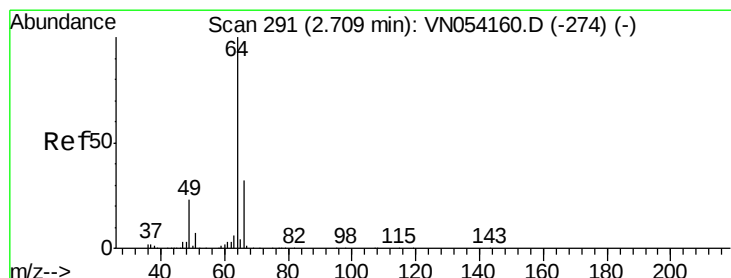
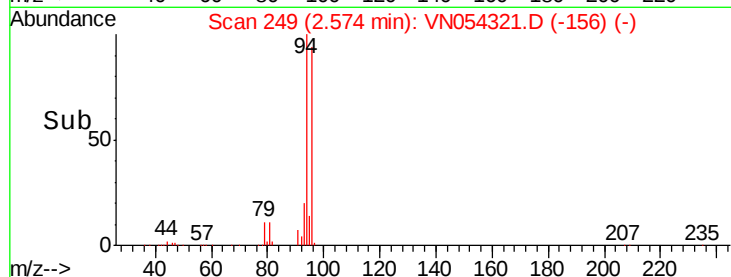
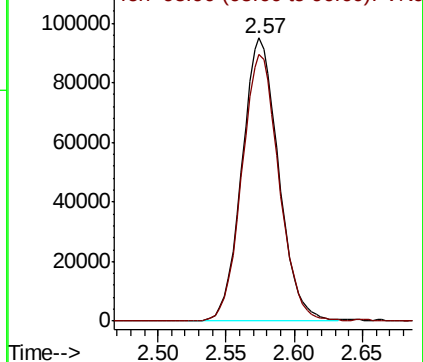
MMDadoda

3/16/2019 11:09:23 AM



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 19.539 ug/l

RT: 2.71 min Scan# 291

Delta R.T. 0.00 min

Lab File: VN054321.D

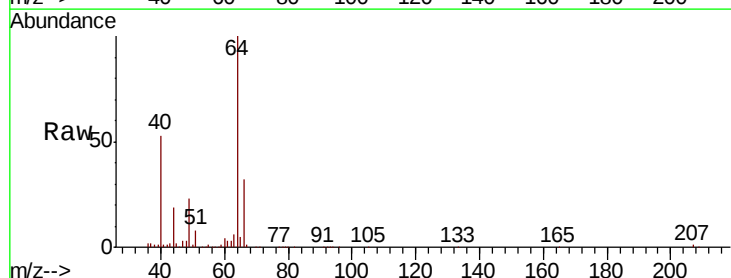
Acq: 15 Mar 2019 20:33

Tgt Ion: 64 Resp: 166003

Ion Ratio Lower Upper

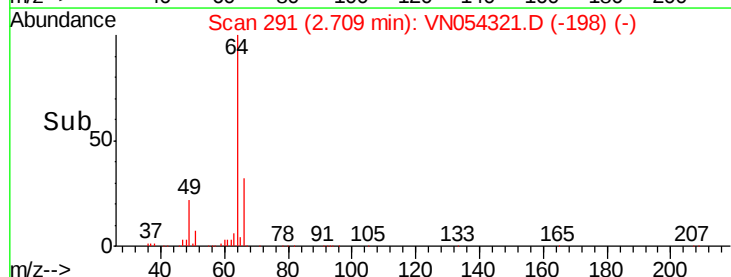
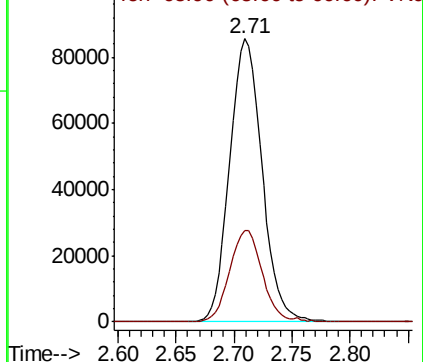
64 100

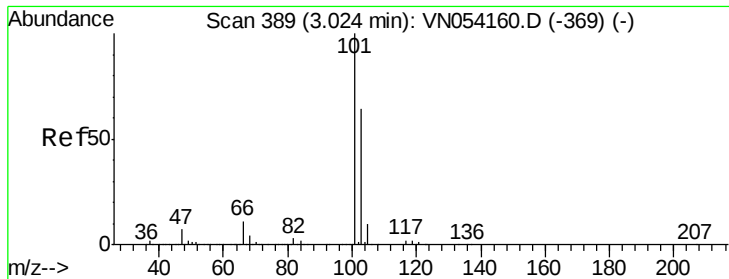
66 32.2 25.7 38.5



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

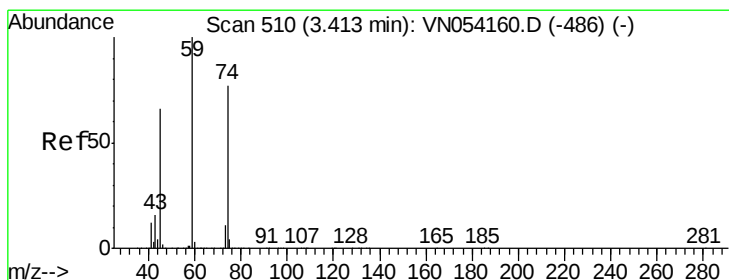
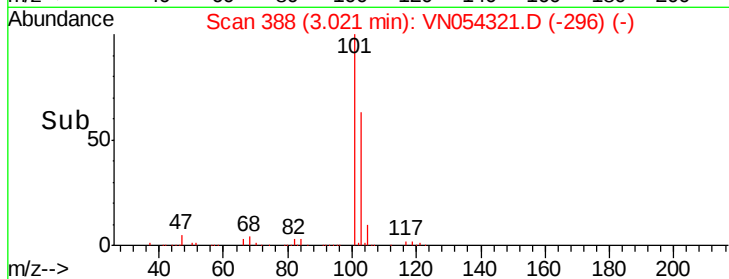
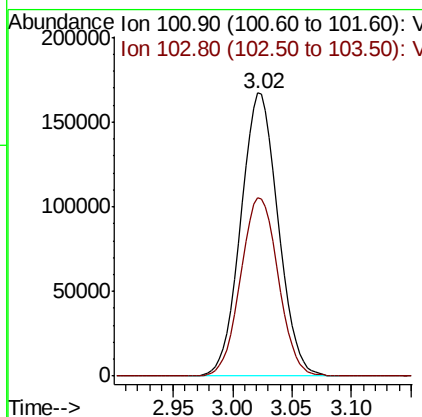
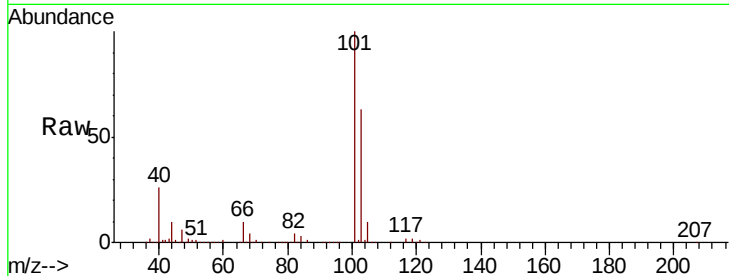
Trichlorofluoromethane
 Concen: 19.472 ug/l
 RT: 3.02 min Scan# 388
 Delta R.T. -0.00 min
 Lab File: VN054321.D
 Acq: 15 Mar 2019 20:33

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0315WBSD01

Tgt Ion	Ratio	Lower	Upper
101	100		
103	62.9	51.4	77.2

Manual Integrations
 APPROVED

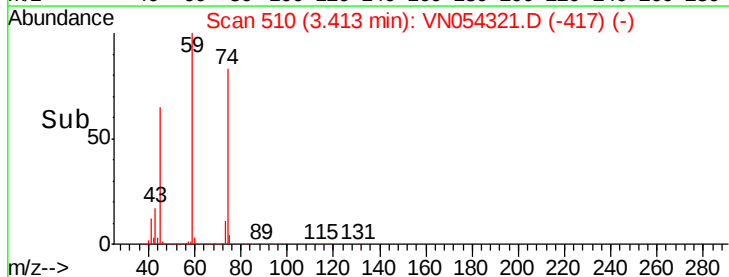
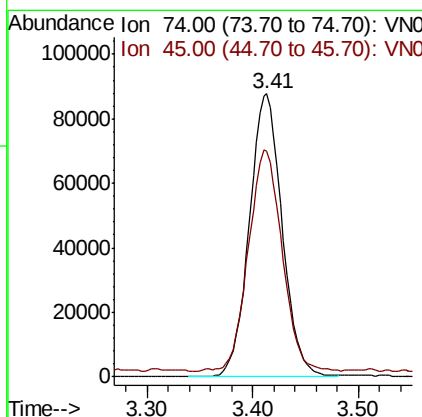
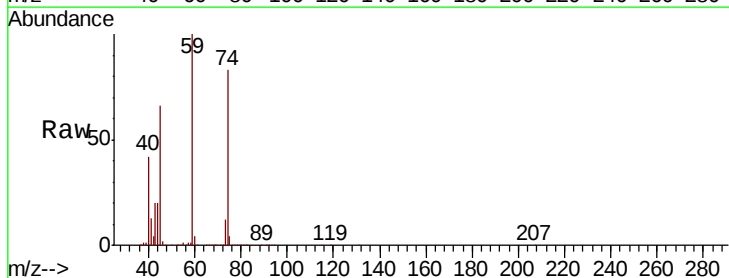
MMDadoda
 3/16/2019 11:09:23 AM

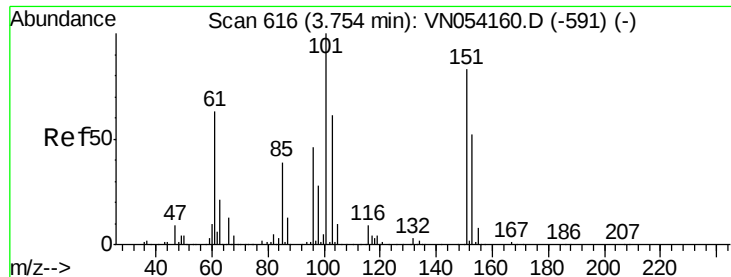


#8

Diethyl Ether
 Concen: 22.381 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VN054321.D
 Acq: 15 Mar 2019 20:33

Tgt Ion	Ratio	Lower	Upper
74	100		
45	80.3	43.1	129.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.284 ug/l

RT: 3.75 min Scan# 614

Delta R.T. -0.01 min

Lab File: VN054321.D

Acq: 15 Mar 2019 20:33

Instrument :

MSVOA_N

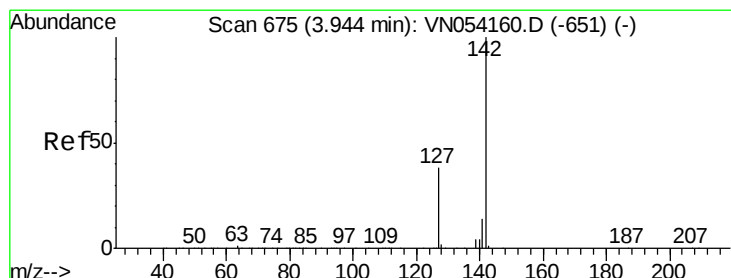
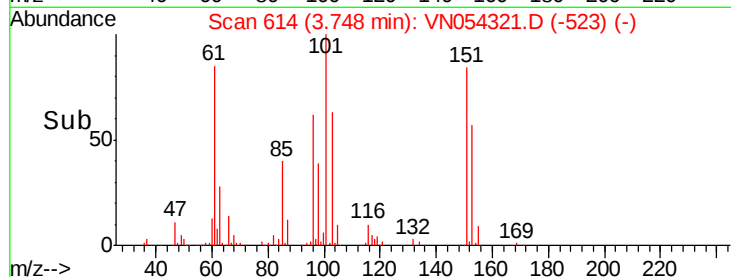
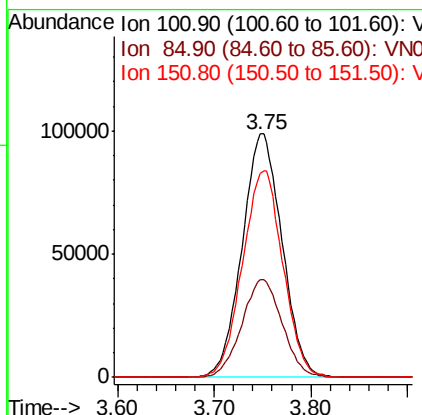
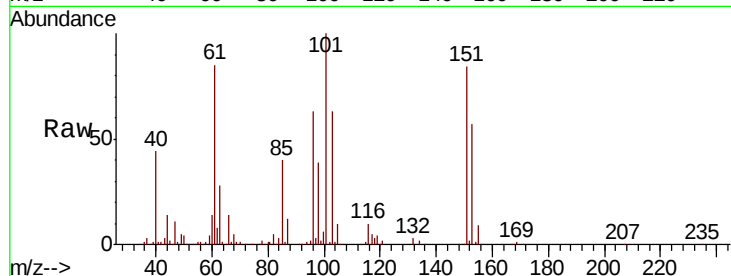
ClientSampled :

VN0315WBSD01

Tgt Ion:	101	Resp:	283777
Ion Ratio	Lower	Upper	
101	100		
85	40.6	32.4	48.6
151	85.7	68.2	102.2

Manual Integrations
APPROVED

MMDadoda
3/16/2019 11:09:23 AM



#10

Methyl Iodide

Concen: 20.448 ug/l

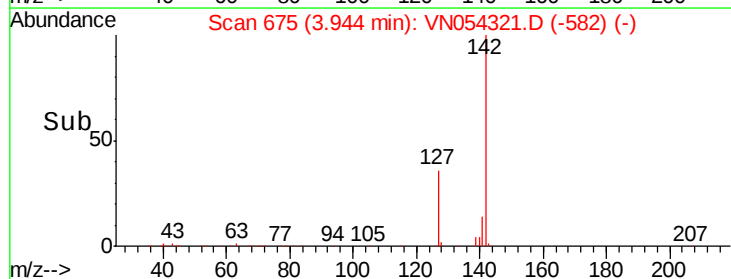
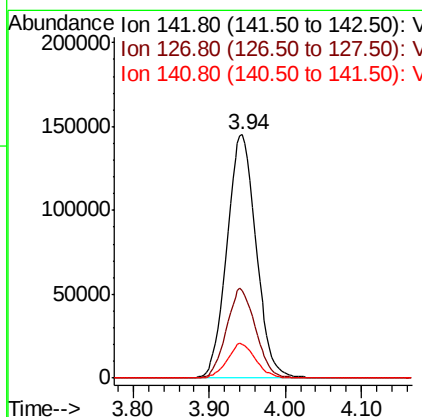
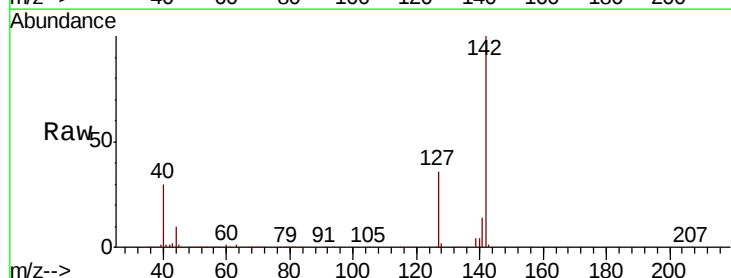
RT: 3.94 min Scan# 675

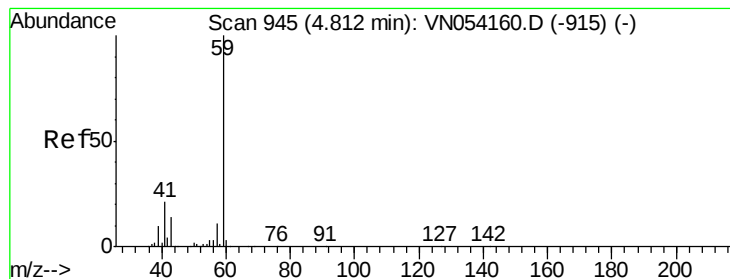
Delta R.T. 0.00 min

Lab File: VN054321.D

Acq: 15 Mar 2019 20:33

Tgt Ion:	142	Resp:	388134
Ion Ratio	Lower	Upper	
142	100		
127	36.5	30.3	45.5
141	13.8	11.2	16.8





#11

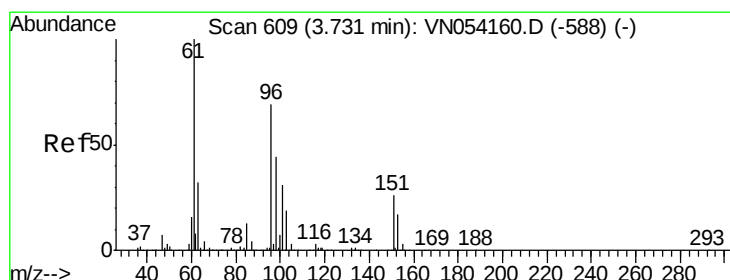
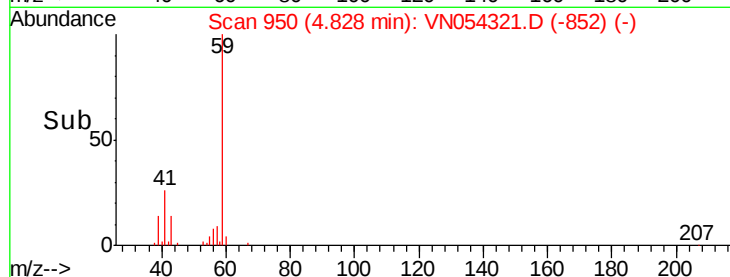
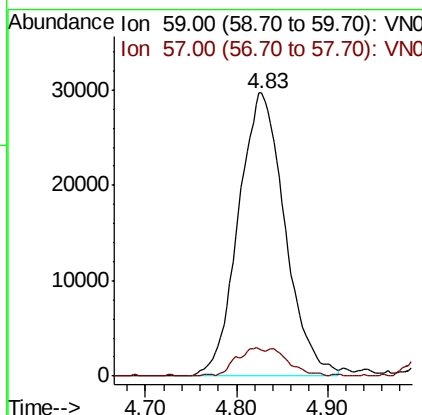
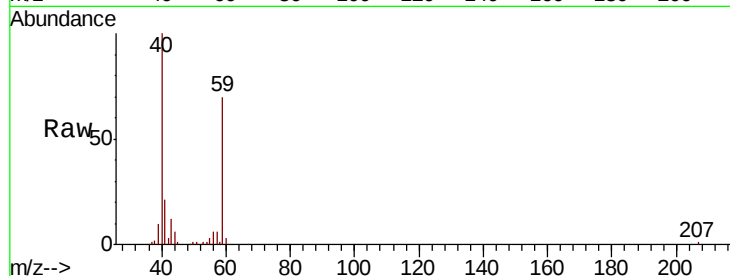
Tert butyl alcohol
 Concen: 108.278 ug/l
 RT: 4.83 min Scan# 950
 Delta R.T. 0.02 min
 Lab File: VN054321.D
 Acq: 15 Mar 2019 20:33

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0315WBSD01

Tgt Ion: 59 Resp: 105200
 Ion Ratio Lower Upper
 59 100
 57 5.9 9.0 13.6#

Manual Integrations
 APPROVED

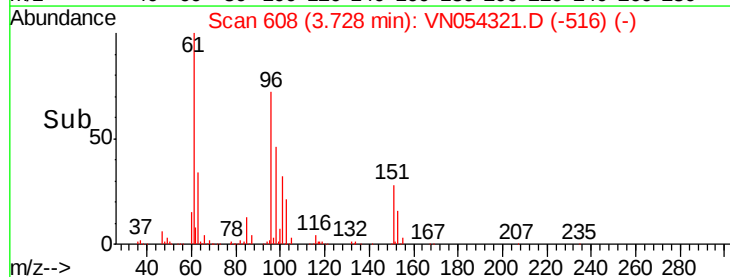
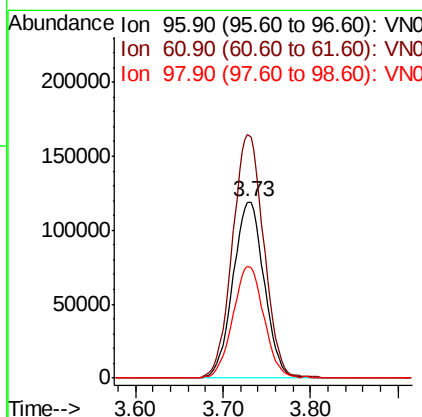
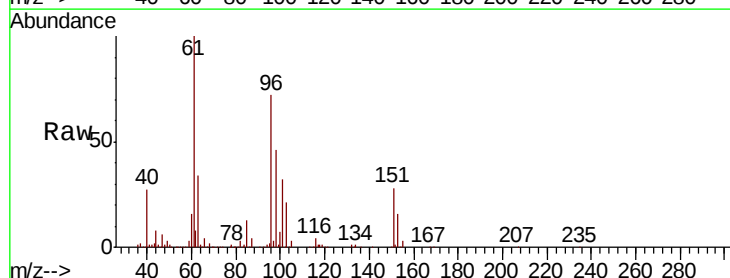
MMDadoda
 3/16/2019 11:09:23 AM



#12

1,1-Dichloroethene
 Concen: 21.221 ug/l
 RT: 3.73 min Scan# 608
 Delta R.T. -0.00 min
 Lab File: VN054321.D
 Acq: 15 Mar 2019 20:33

Tgt Ion: 96 Resp: 294209
 Ion Ratio Lower Upper
 96 100
 61 138.3 116.5 174.7
 98 63.2 51.0 76.4





#13

Acrolein

Concen: 67.946 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.00 min

Lab File: VN054321.D

Acq: 15 Mar 2019 20:33

Instrument :

MSVOA_N

ClientSampleId :

VN0315WBSD01

Tgt Ion: 56 Resp: 62555

Ion Ratio Lower Upper

56 100

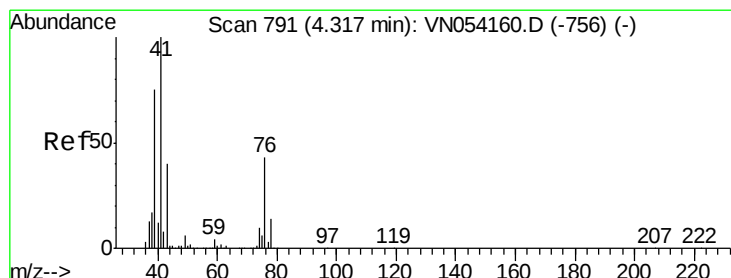
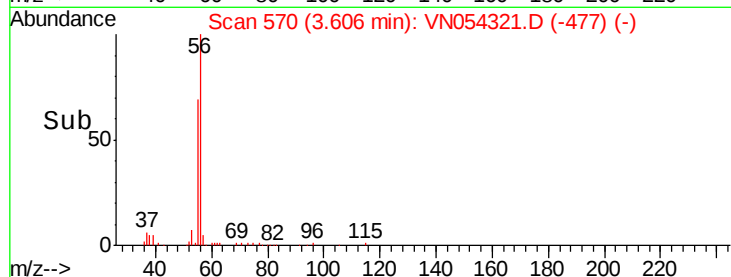
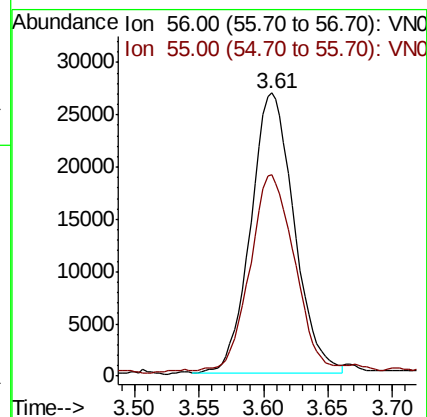
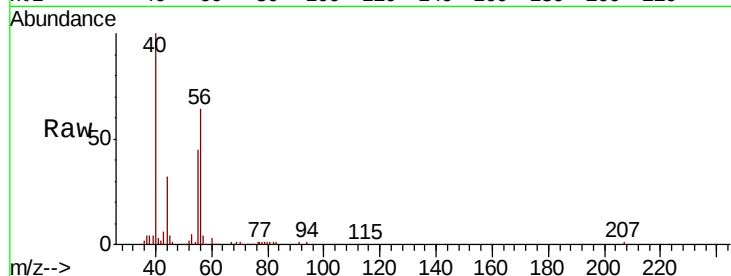
55 71.6 56.7 85.1

Manual Integrations

APPROVED

MMDadoda

3/16/2019 11:09:23 AM



#14

Allyl chloride

Concen: 19.242 ug/l

RT: 4.32 min Scan# 791

Delta R.T. 0.00 min

Lab File: VN054321.D

Acq: 15 Mar 2019 20:33

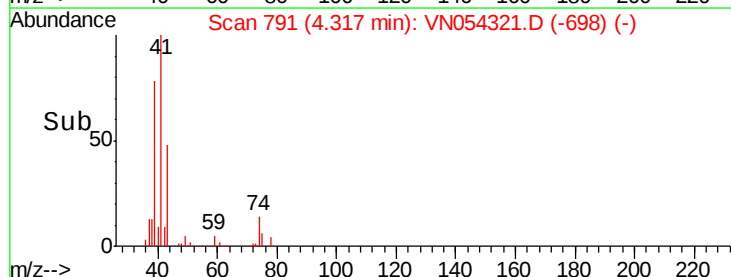
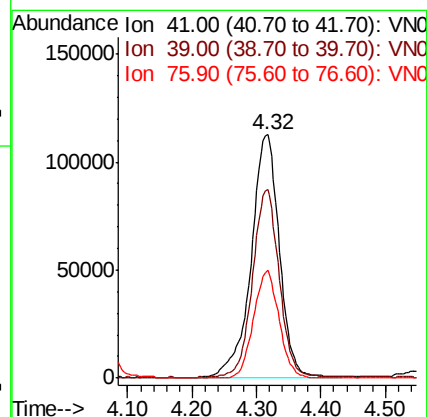
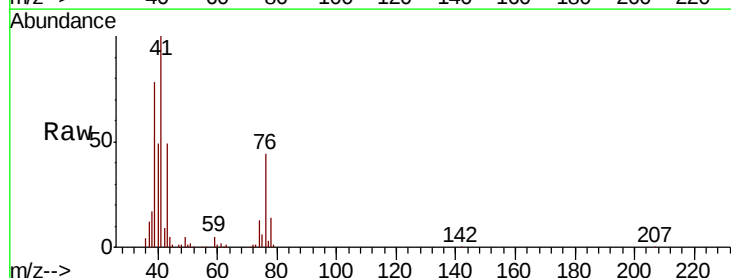
Tgt Ion: 41 Resp: 342283

Ion Ratio Lower Upper

41 100

39 72.8 58.2 87.4

76 39.6 31.7 47.5





#15

Acrylonitrile

Concen: 118.973 ug/l

RT: 5.00 min Scan# 1002

Delta R.T. 0.00 min

Lab File: VN054321.D

Acq: 15 Mar 2019 20:33

Instrument :

MSVOA_N

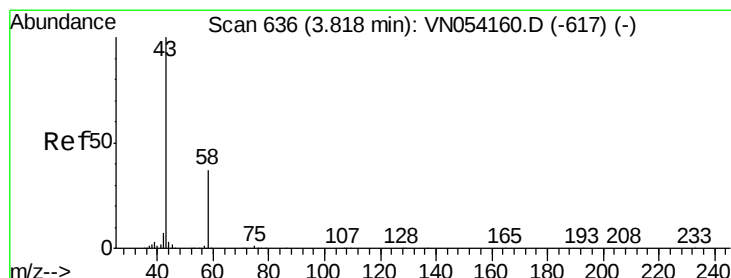
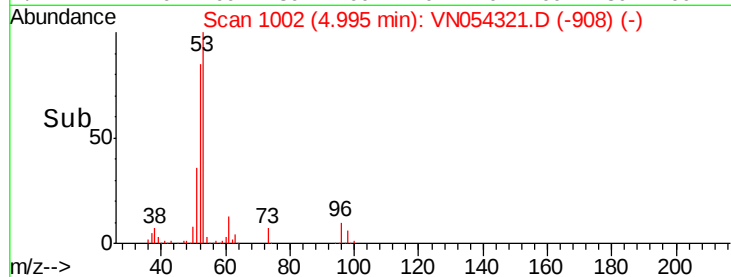
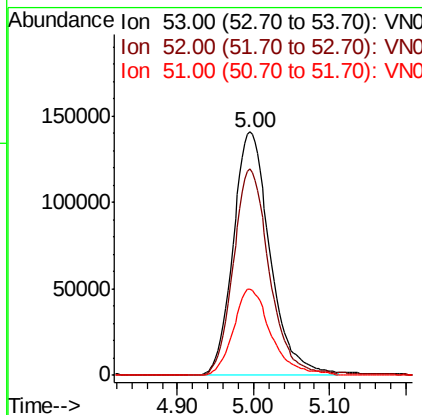
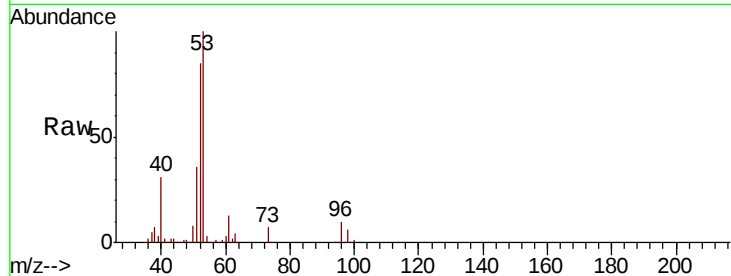
ClientSampleId :

VN0315WBSD01

Tgt Ion:	53	Resp:	474813
Ion	Ratio	Lower	Upper
53	100		
52	82.7	66.4	99.6
51	36.3	29.6	44.4

Manual Integrations
APPROVED

MMDadoda
3/16/2019 11:09:23 AM



#16

Acetone

Concen: 86.683 ug/l

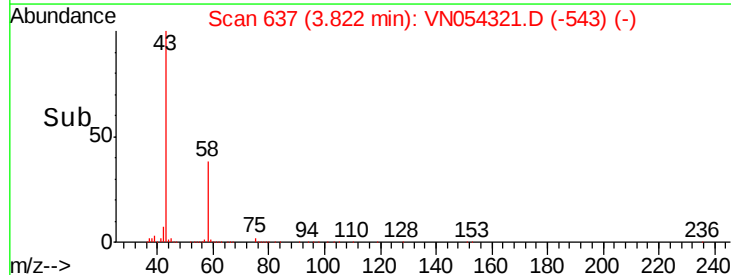
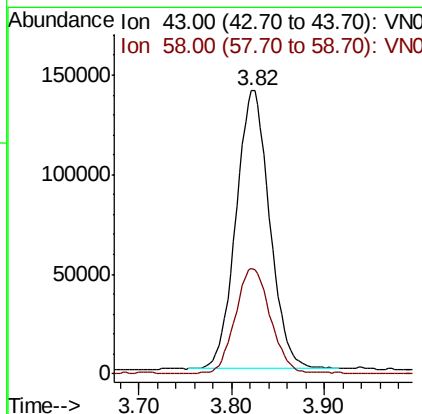
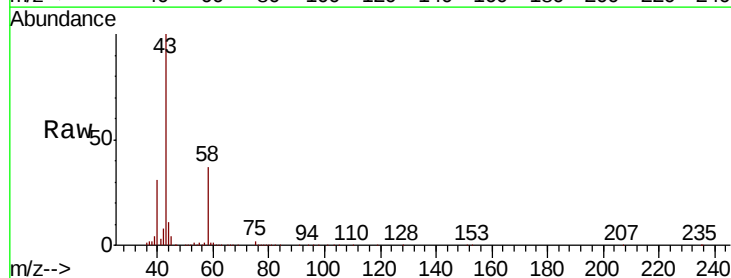
RT: 3.82 min Scan# 637

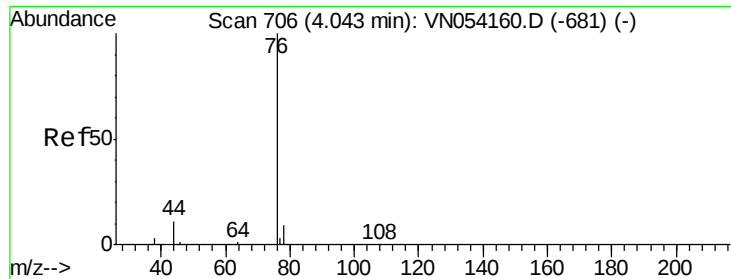
Delta R.T. 0.00 min

Lab File: VN054321.D

Acq: 15 Mar 2019 20:33

Tgt Ion:	43	Resp:	351748
Ion	Ratio	Lower	Upper
43	100		
58	37.8	29.9	44.9





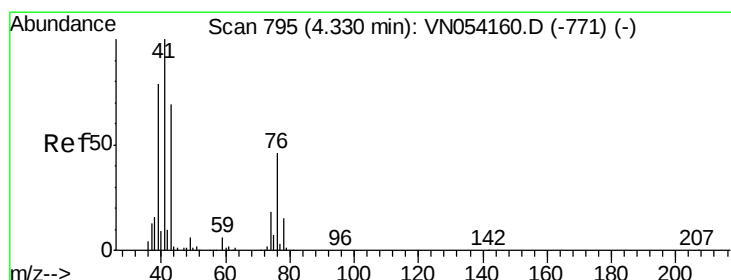
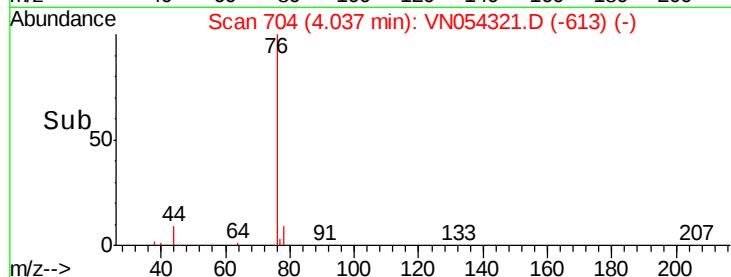
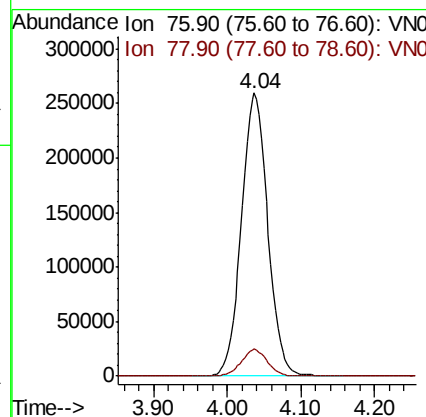
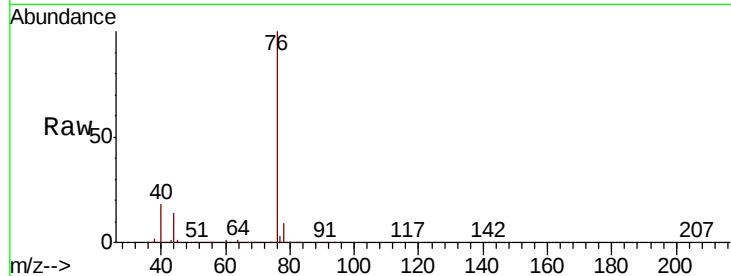
#17
Carbon Disulfide
Concen: 18.592 ug/l
RT: 4.04 min Scan# 704
Delta R.T. -0.01 min
Lab File: VN054321.D
Acq: 15 Mar 2019 20:33

Instrument :
MSVOA_N
ClientSampleId :
VN0315WBSD01

Tgt Ion: 76 Resp: 646172
Ion Ratio Lower Upper
76 100
78 9.5 7.5 11.3

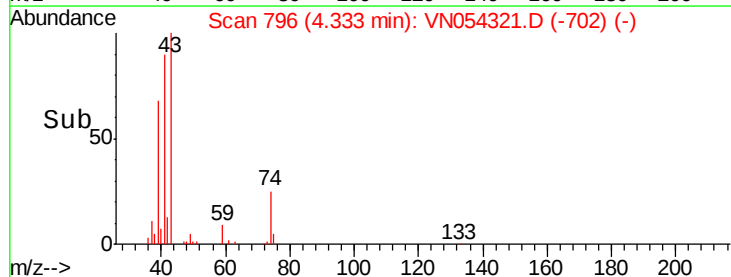
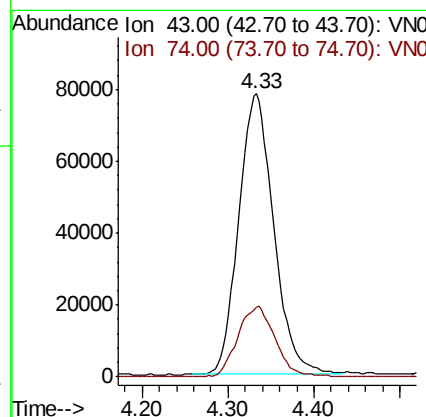
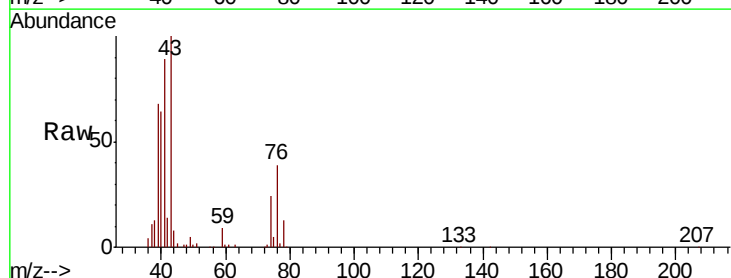
Manual Integrations
APPROVED

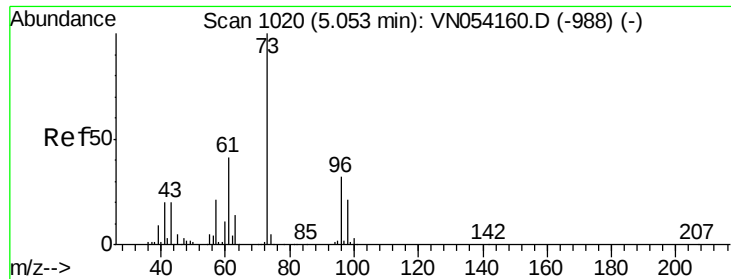
MMDadoda
3/16/2019 11:09:23 AM



#18
Methyl Acetate
Concen: 26.913 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.00 min
Lab File: VN054321.D
Acq: 15 Mar 2019 20:33

Tgt Ion: 43 Resp: 220951
Ion Ratio Lower Upper
43 100
74 26.7 20.8 31.2





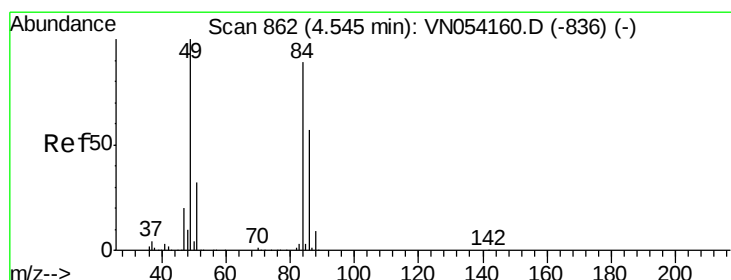
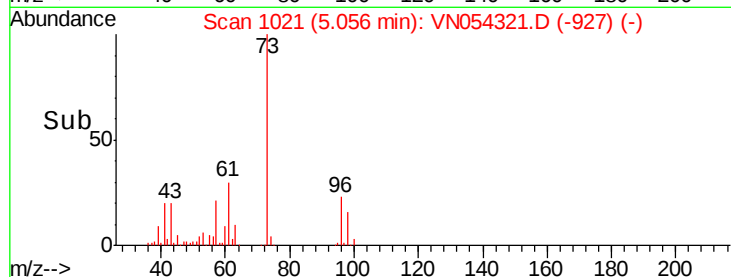
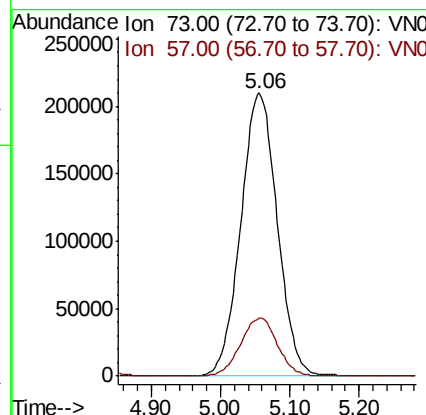
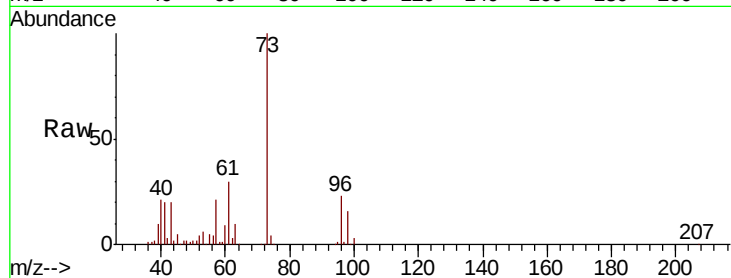
#19
Methyl tert-butyl Ether
Concen: 22.352 ug/l
RT: 5.06 min Scan# 1021
Delta R.T. 0.00 min
Lab File: VN054321.D
Acq: 15 Mar 2019 20:33

Instrument :
MSVOA_N
ClientSampleId :
VN0315WBSD01

Tgt Ion: 73 Resp: 768126
Ion Ratio Lower Upper
73 100
57 20.4 16.8 25.2

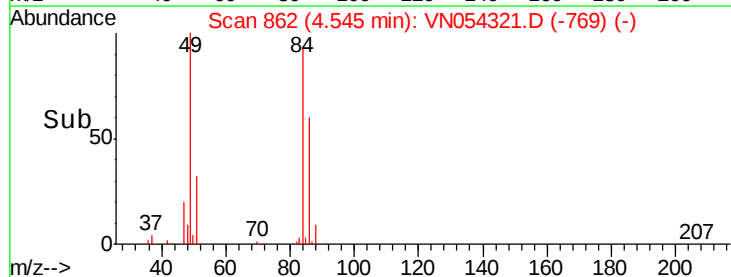
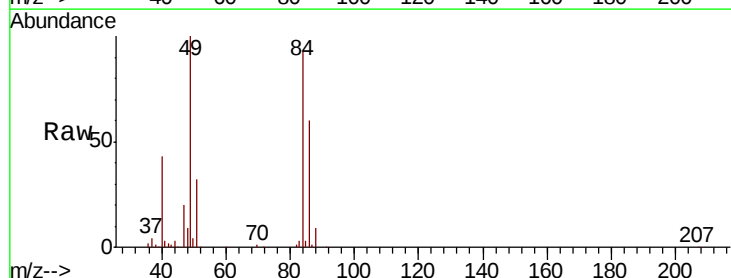
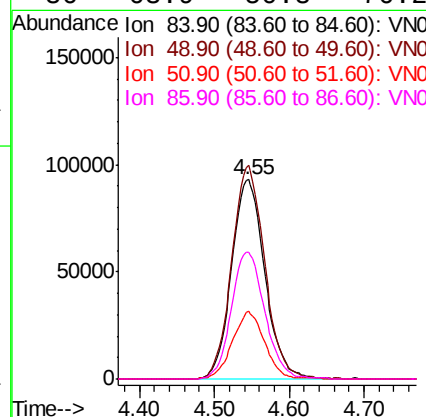
Manual Integrations
APPROVED

MMDadoda
3/16/2019 11:09:23 AM



#20
Methylene Chloride
Concen: 21.556 ug/l
RT: 4.55 min Scan# 862
Delta R.T. 0.00 min
Lab File: VN054321.D
Acq: 15 Mar 2019 20:33

Tgt Ion: 84 Resp: 287214
Ion Ratio Lower Upper
84 100
49 107.3 89.7 134.5
51 34.0 28.2 42.4
86 63.9 50.8 76.2





#21

trans-1,2-Dichloroethene

Concen: 20.554 ug/l

RT: 5.03 min Scan# 1014

Delta R.T. -0.00 min

Lab File: VN054321.D

Acq: 15 Mar 2019 20:33

Instrument :

MSVOA_N

ClientSampleId :

VN0315WBSD01

Tgt Ion: 96 Resp: 273028

Ion Ratio Lower Upper

96 100

61 125.7 102.8 154.2

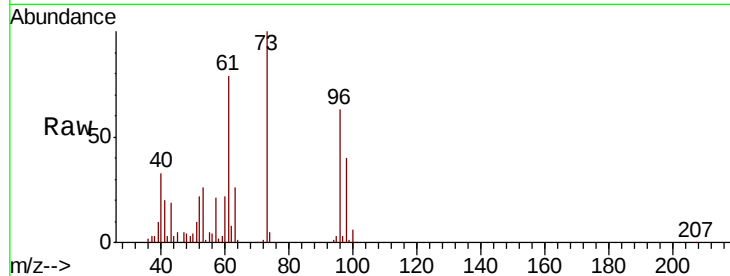
98 63.4 50.0 75.0

Manual Integrations

APPROVED

MMDadoda

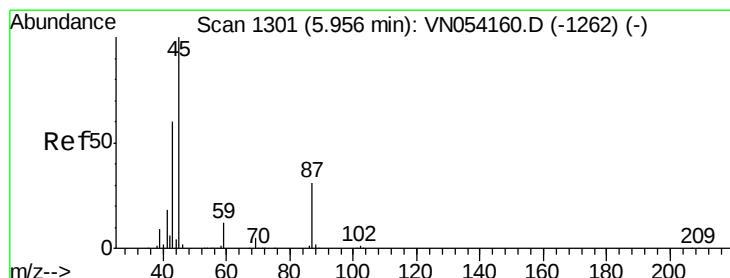
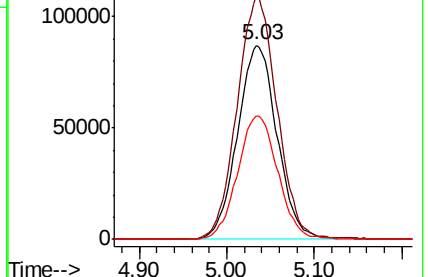
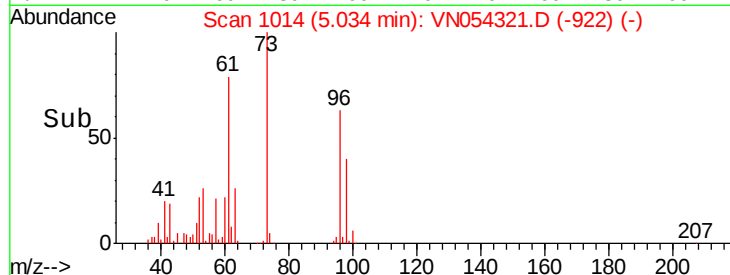
3/16/2019 11:09:23 AM



Abundance Ion 95.90 (95.60 to 96.60): VN054321.D (-922) (-)

Ion 60.90 (60.60 to 61.60): VN054321.D (-922) (-)

Ion 97.90 (97.60 to 98.60): VN054321.D (-922) (-)



#22

Diisopropyl ether

Concen: 21.026 ug/l

RT: 5.96 min Scan# 1303

Delta R.T. 0.01 min

Lab File: VN054321.D

Acq: 15 Mar 2019 20:33

Tgt Ion: 45 Resp: 746443

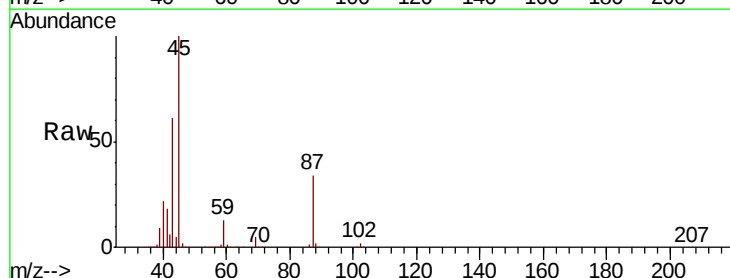
Ion Ratio Lower Upper

45 100

43 58.6 48.2 72.2

87 33.0 24.9 37.3

59 12.4 9.5 14.3

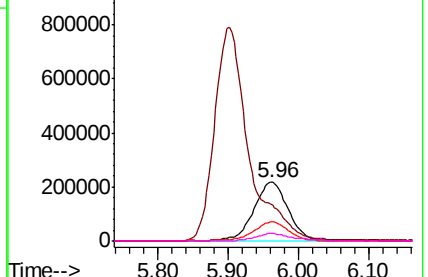
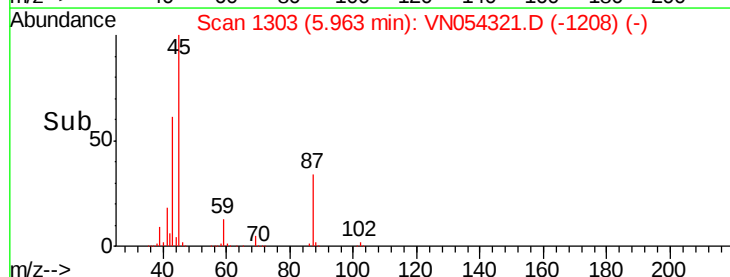


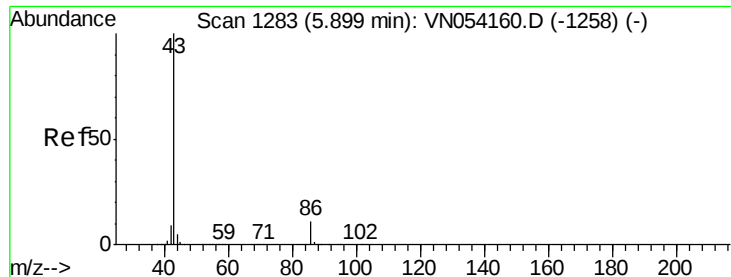
Abundance Ion 45.00 (44.70 to 45.70): VN054321.D (-1208) (-)

Ion 43.00 (42.70 to 43.70): VN054321.D (-1208) (-)

Ion 87.00 (86.70 to 87.70): VN054321.D (-1208) (-)

Ion 59.00 (58.70 to 59.70): VN054321.D (-1208) (-)





#23

Vinyl Acetate

Concen: 102.824 ug/l

RT: 5.90 min Scan# 1284

Delta R.T. 0.00 min

Lab File: VN054321.D

Acq: 15 Mar 2019 20:33

Instrument :

MSVOA_N

ClientSampleId :

VN0315WBSD01

Tgt Ion: 43 Resp: 2691471

Ion Ratio Lower Upper

43 100

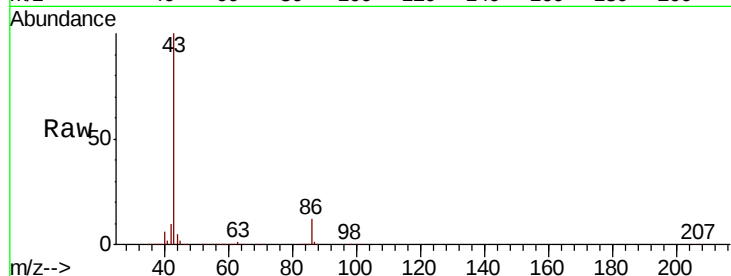
86 11.7 9.1 13.7

Manual Integrations

APPROVED

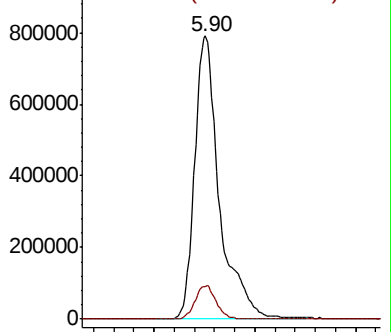
MMDadoda

3/16/2019 11:09:23 AM

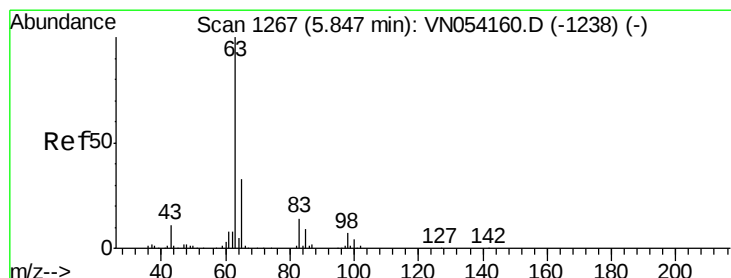
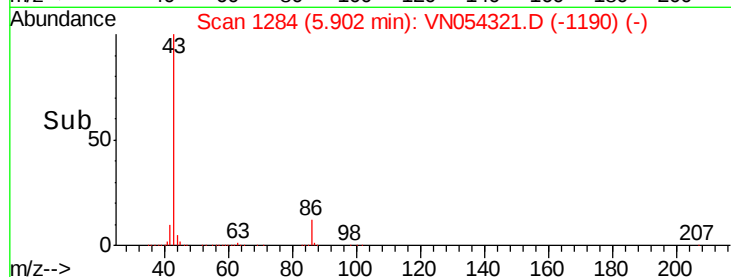


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



Time-->



#24

1,1-Dichloroethane

Concen: 21.366 ug/l

RT: 5.85 min Scan# 1267

Delta R.T. 0.00 min

Lab File: VN054321.D

Acq: 15 Mar 2019 20:33

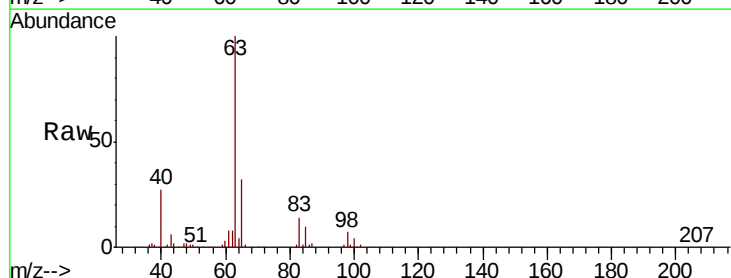
Tgt Ion: 63 Resp: 487038

Ion Ratio Lower Upper

63 100

98 7.3 3.5 10.5

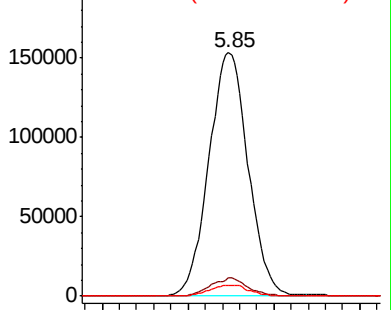
100 4.4 2.0 6.0



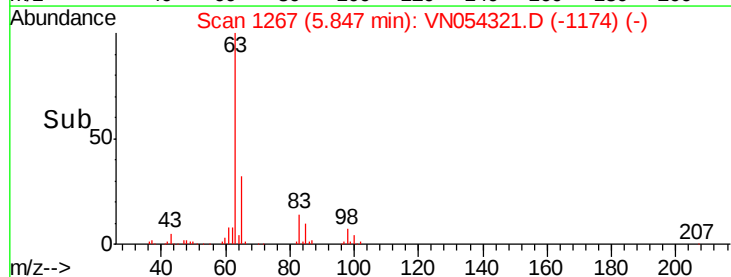
Abundance Ion 62.90 (62.60 to 63.60): VN0

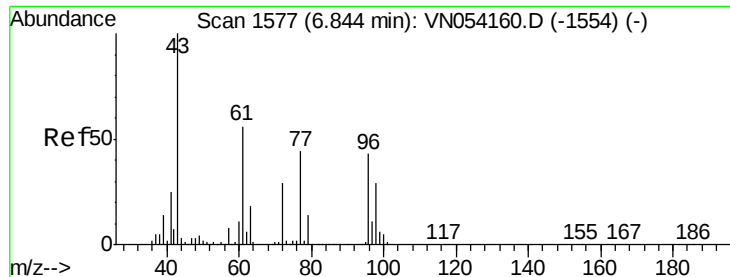
Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0



Time-->





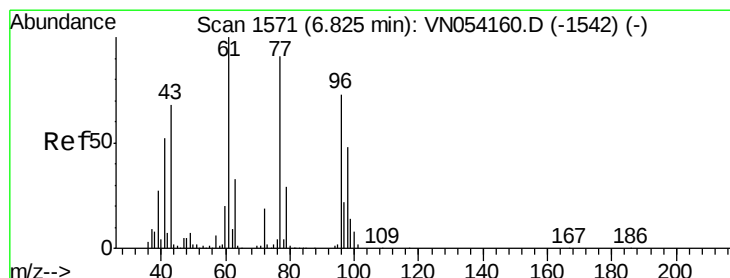
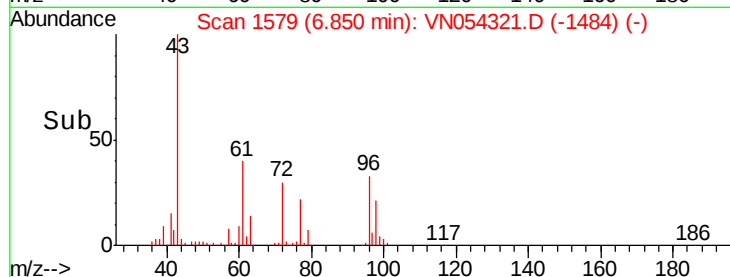
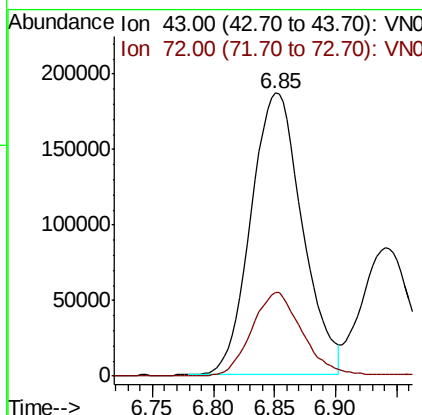
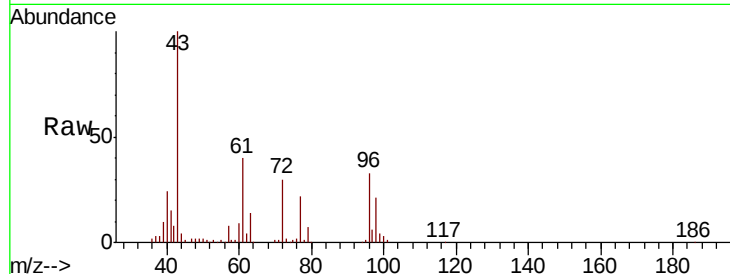
#25
2-Butanone
Concen: 114.716 ug/l
RT: 6.85 min Scan# 1579
Delta R.T. 0.01 min
Lab File: VN054321.D
Acq: 15 Mar 2019 20:33

Instrument :
MSVOA_N
ClientSampleId :
VN0315WBSD01

Tgt Ion: 43 Resp: 546357
Ion Ratio Lower Upper
43 100
72 29.6 23.0 34.6

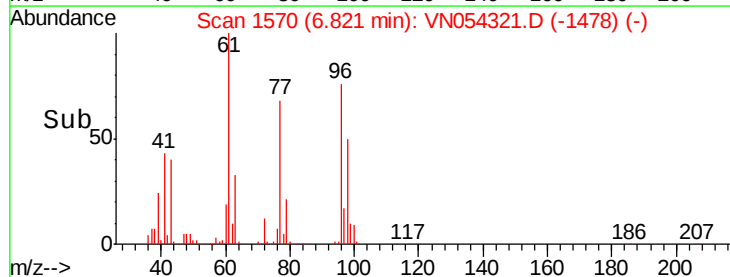
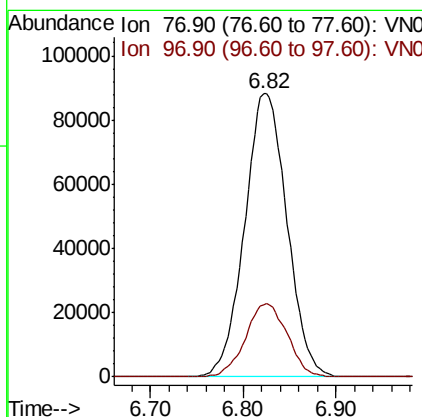
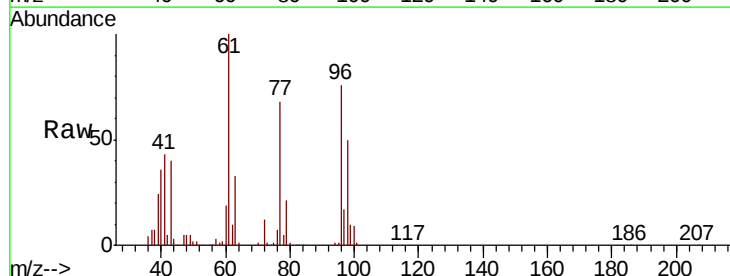
Manual Integrations
APPROVED

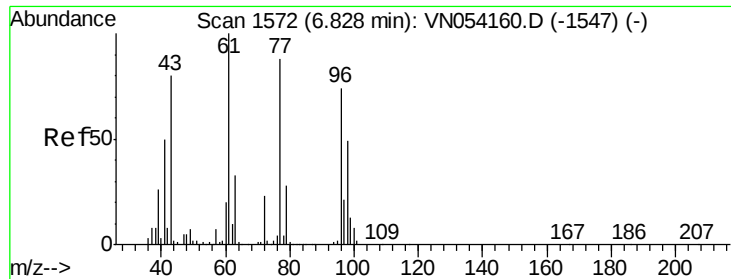
MMDadoda
3/16/2019 11:09:23 AM



#26
2,2-Dichloropropane
Concen: 13.921 ug/l
RT: 6.82 min Scan# 1570
Delta R.T. -0.00 min
Lab File: VN054321.D
Acq: 15 Mar 2019 20:33

Tgt Ion: 77 Resp: 279062
Ion Ratio Lower Upper
77 100
97 25.5 11.9 35.9





#27

cis-1,2-Dichloroethene

Concen: 21.622 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN054321.D

Acq: 15 Mar 2019 20:33

Instrument :

MSVOA_N

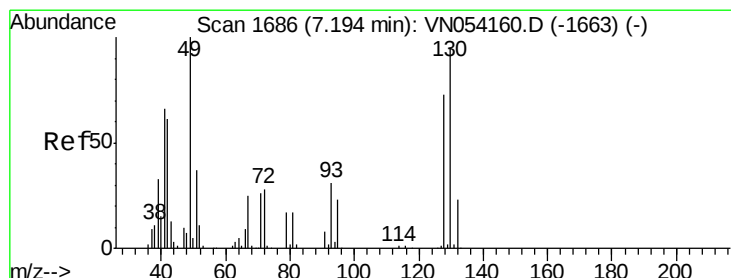
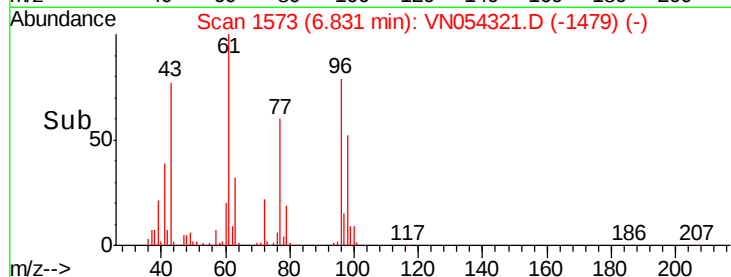
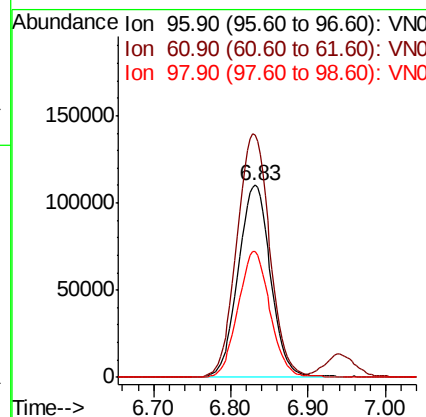
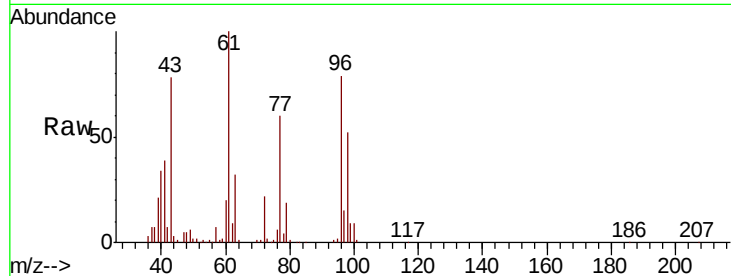
ClientSampleId :

VN0315WBSD01

Tgt Ion:	96	Resp:	320424
Ion	Ratio	Lower	Upper
96	100		
61	128.3	0.0	273.0
98	64.5	0.0	130.6

Manual Integrations
APPROVED

MMDadoda
3/16/2019 11:09:23 AM



#28

Bromochloromethane

Concen: 21.958 ug/l

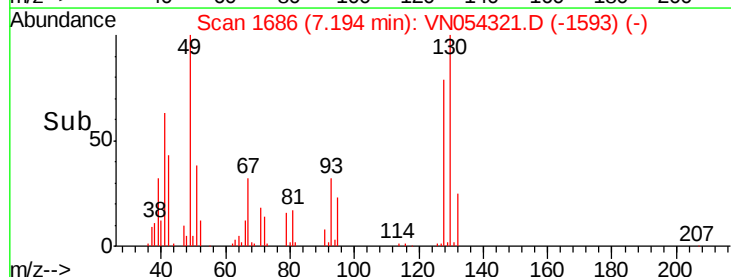
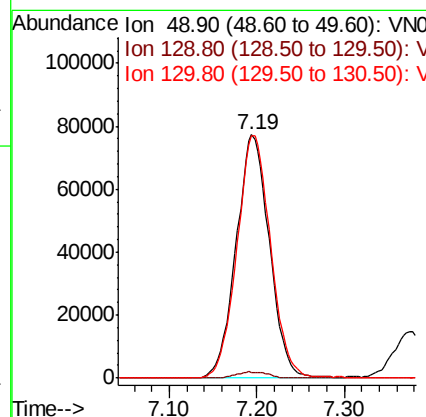
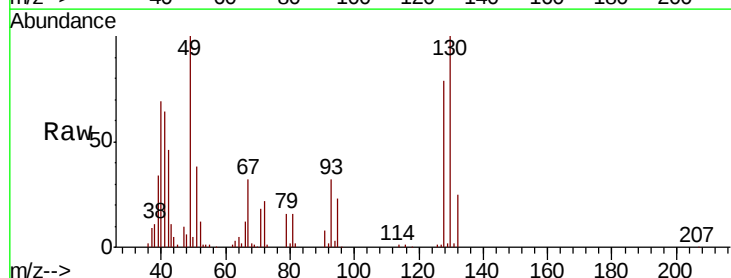
RT: 7.19 min Scan# 1686

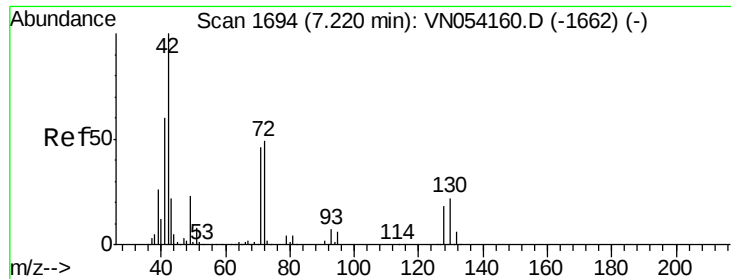
Delta R.T. 0.00 min

Lab File: VN054321.D

Acq: 15 Mar 2019 20:33

Tgt Ion:	49	Resp:	204626
Ion	Ratio	Lower	Upper
49	100		
129	2.5	0.0	4.6
130	100.3	76.7	115.1





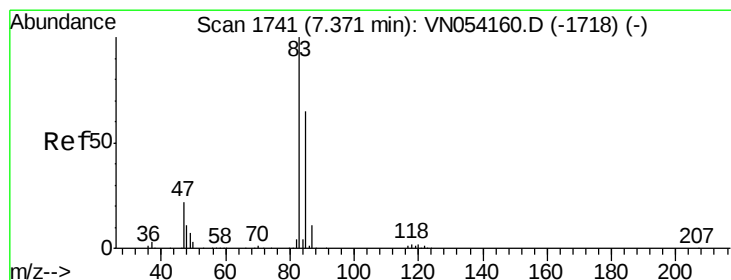
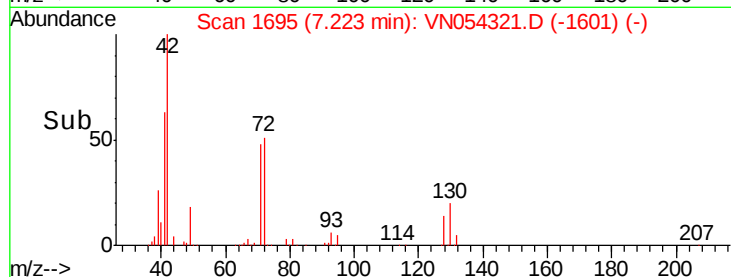
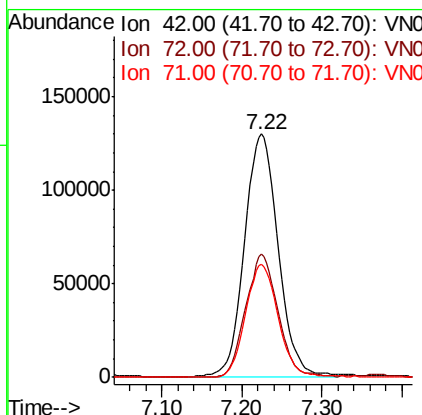
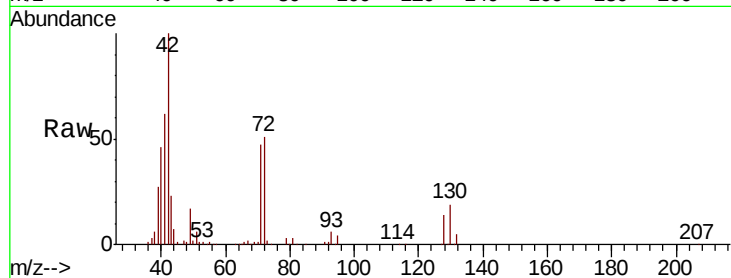
#29
Tetrahydrofuran
Concen: 121.051 ug/l
RT: 7.22 min Scan# 1695
Delta R.T. 0.00 min
Lab File: VN054321.D
Acq: 15 Mar 2019 20:33

Instrument :
MSVOA_N
ClientSampleId :
VN0315WBSD01

Tgt Ion	Ratio	Lower	Upper
42	100		
72	49.0	37.8	56.6
71	45.4	36.2	54.2

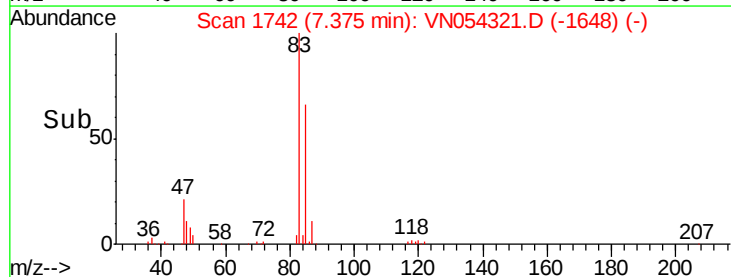
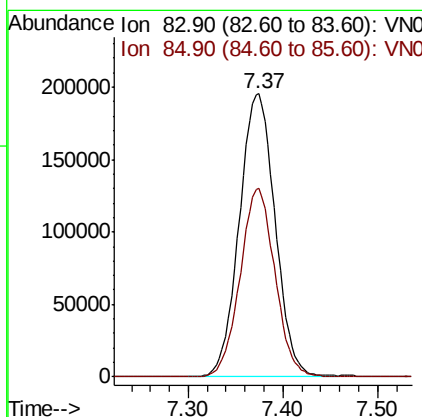
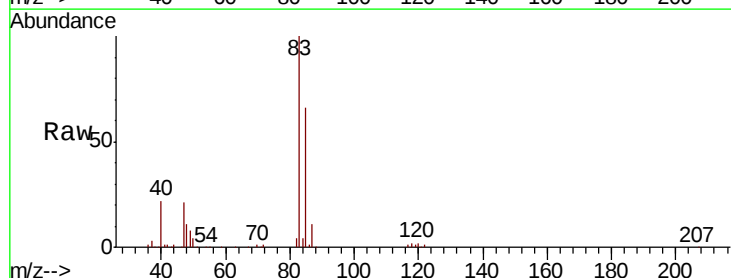
Manual Integrations
APPROVED

MMDadoda
3/16/2019 11:09:23 AM



#30
Chloroform
Concen: 21.628 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN054321.D
Acq: 15 Mar 2019 20:33

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.5	52.2	78.4





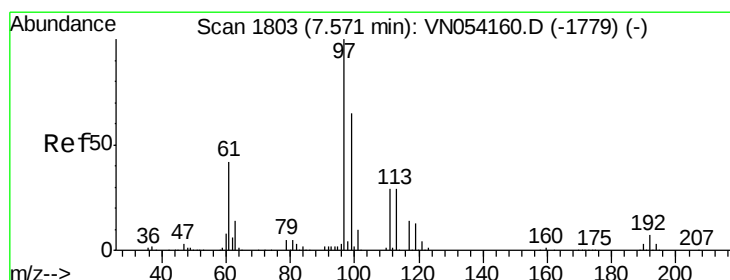
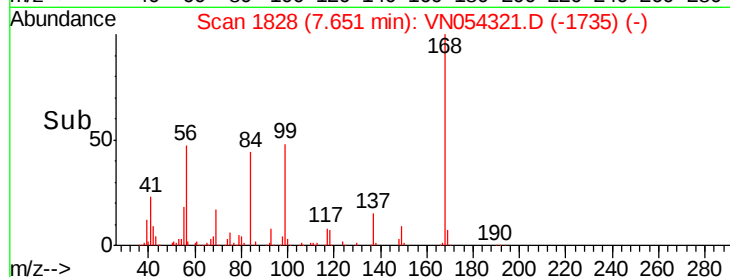
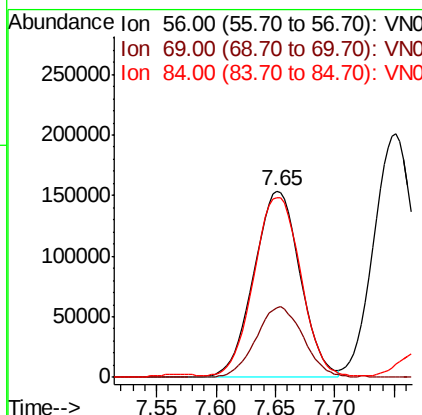
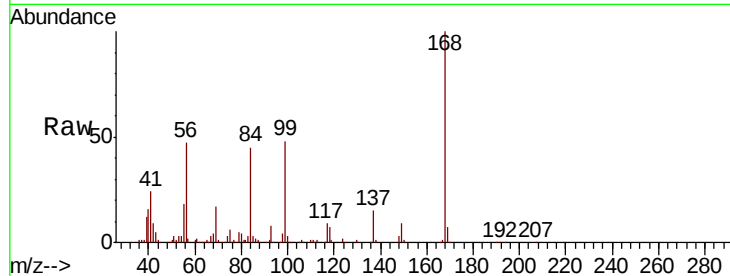
#31
Cyclohexane
Concen: 18.748 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. 0.00 min
Lab File: VN054321.D
Acq: 15 Mar 2019 20:33

Instrument :
MSVOA_N
ClientSampleId :
VN0315WBSD01

Tgt Ion	Ratio	Lower	Upper
56	100		
69	37.3	27.8	41.6
84	94.8	74.6	111.8

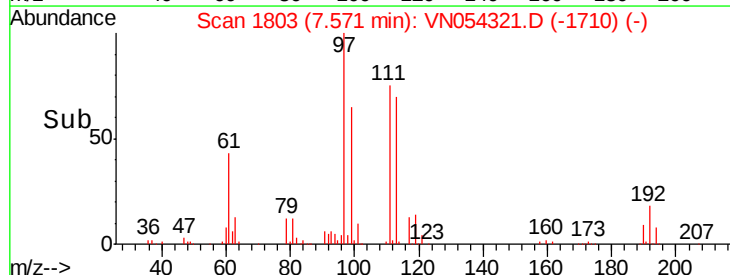
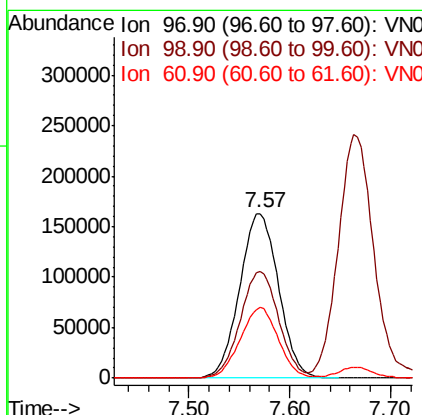
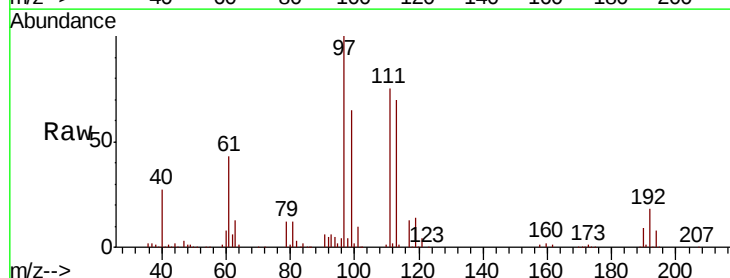
Manual Integrations
APPROVED

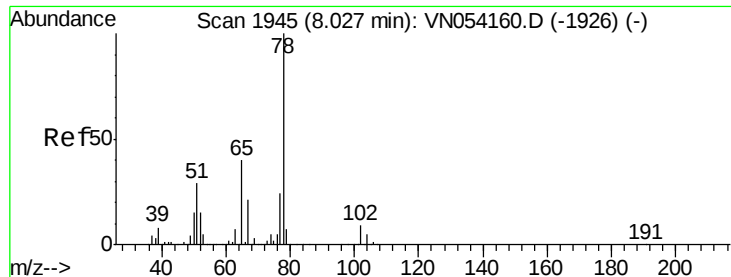
MMDadoda
3/16/2019 11:09:23 AM



#32
1,1,1-Trichloroethane
Concen: 20.315 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. 0.00 min
Lab File: VN054321.D
Acq: 15 Mar 2019 20:33

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.5	77.3
61	42.0	33.6	50.4





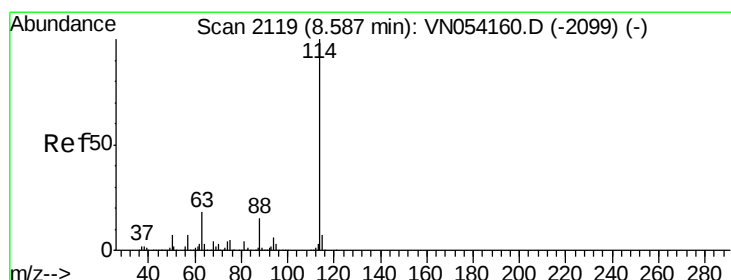
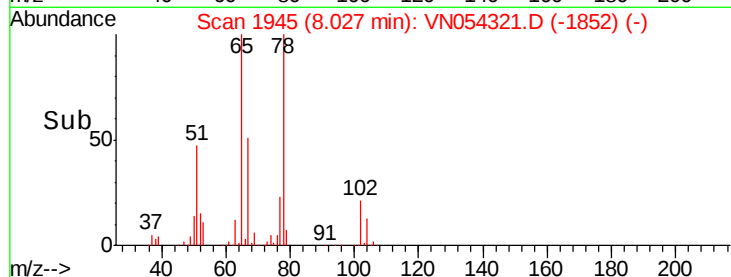
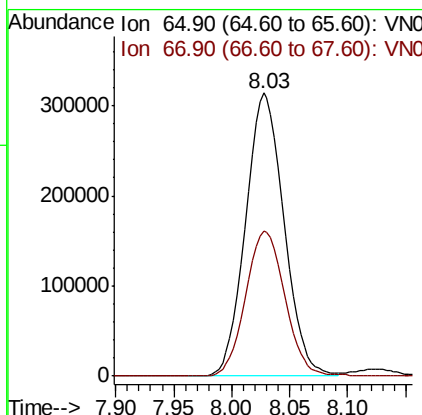
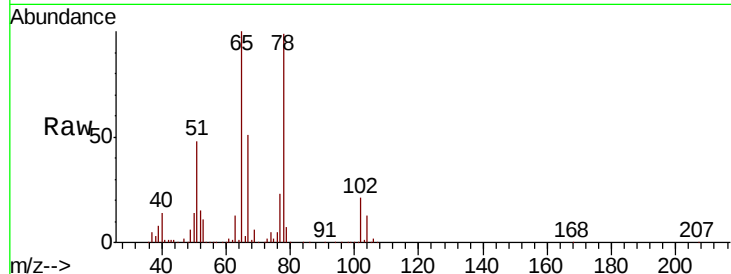
#33
 1,2-Dichloroethane-d4
 Concen: 51.210 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN054321.D
 Acq: 15 Mar 2019 20:33

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0315WBSD01

Tgt Ion: 65 Resp: 725766
 Ion Ratio Lower Upper
 65 100
 67 52.5 0.0 104.6

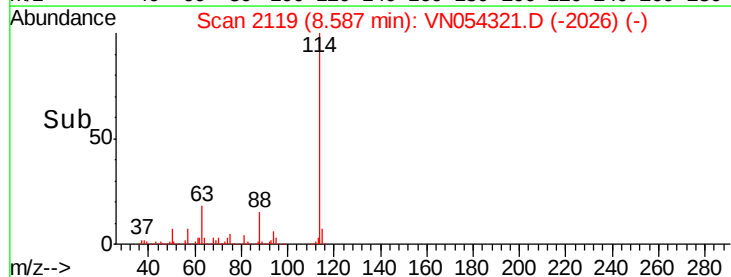
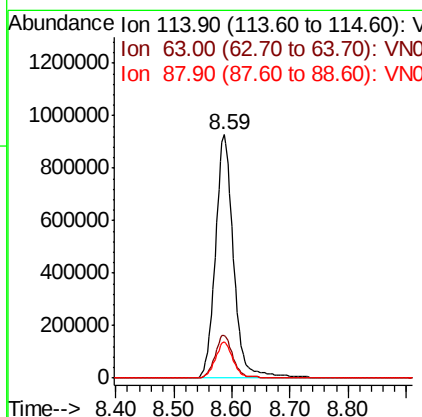
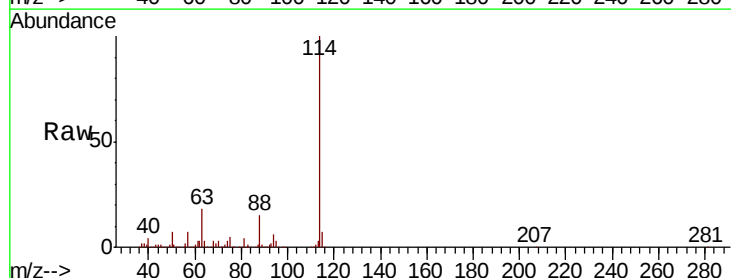
Manual Integrations
 APPROVED

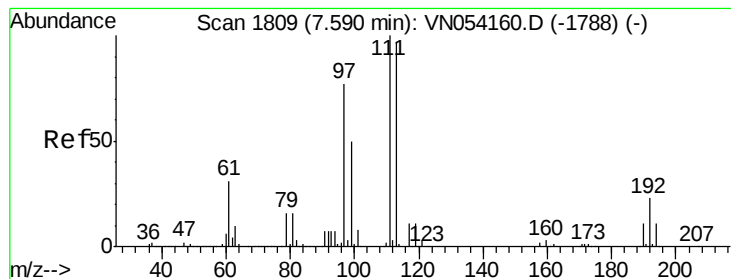
MMDadoda
 3/16/2019 11:09:23 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054321.D
 Acq: 15 Mar 2019 20:33

Tgt Ion: 114 Resp: 2017164
 Ion Ratio Lower Upper
 114 100
 63 17.8 0.0 35.2
 88 15.0 0.0 30.2





#35

Dibromofluoromethane

Concen: 51.534 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN054321.D

Acq: 15 Mar 2019 20:33

Instrument :

MSVOA_N

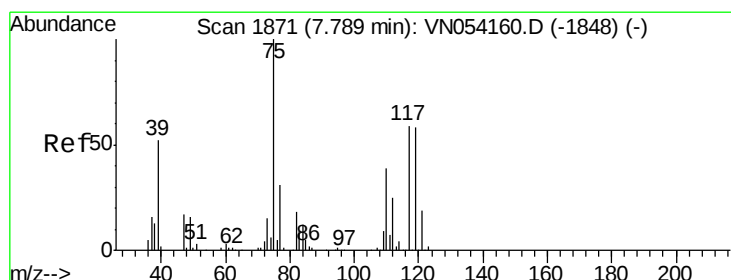
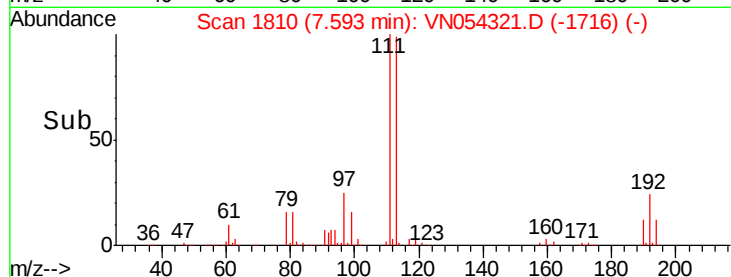
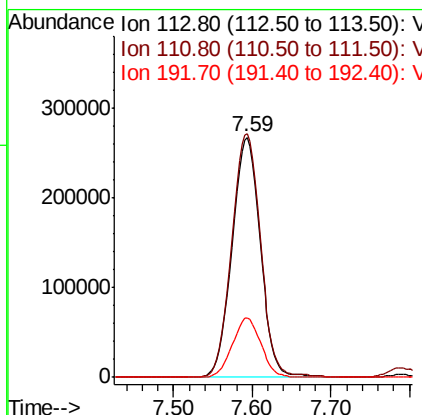
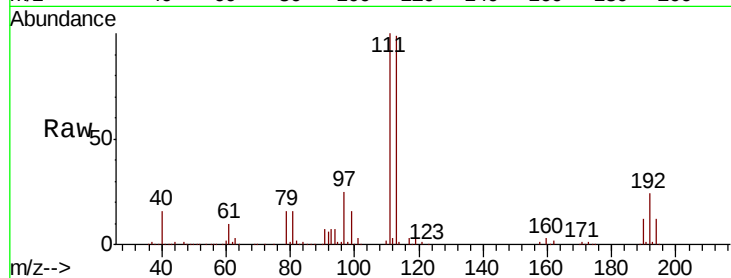
ClientSampleId :

VN0315WBSD01

Tgt Ion:	113	Resp:	670445
Ion Ratio	Lower	Upper	
113	100		
111	102.7	82.2	123.4
192	24.9	19.2	28.8

Manual Integrations
APPROVED

MMDadoda
3/16/2019 11:09:23 AM



#36

1,1-Dichloropropene

Concen: 19.721 ug/l

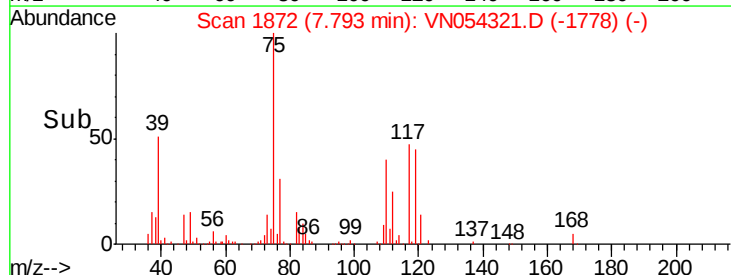
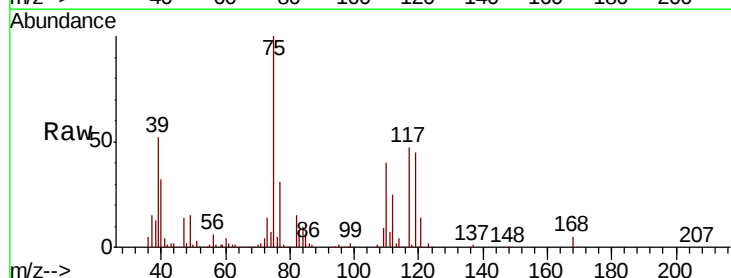
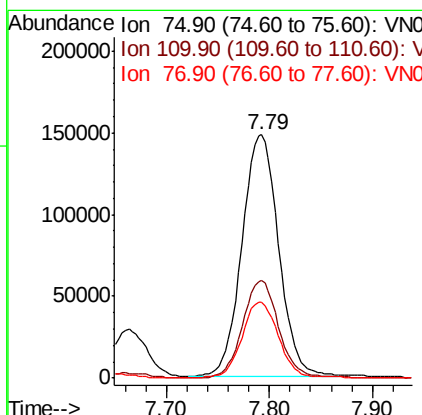
RT: 7.79 min Scan# 1872

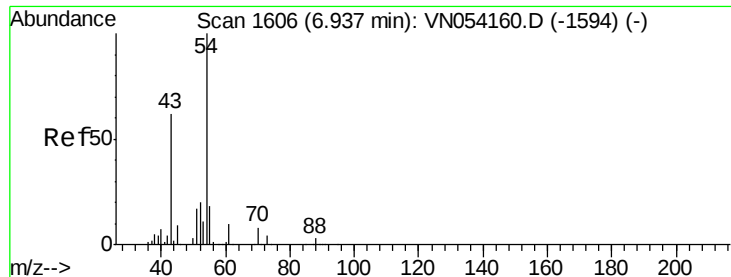
Delta R.T. 0.00 min

Lab File: VN054321.D

Acq: 15 Mar 2019 20:33

Tgt Ion:	75	Resp:	366350
Ion Ratio	Lower	Upper	
75	100		
110	40.0	19.1	57.5
77	31.2	25.0	37.4





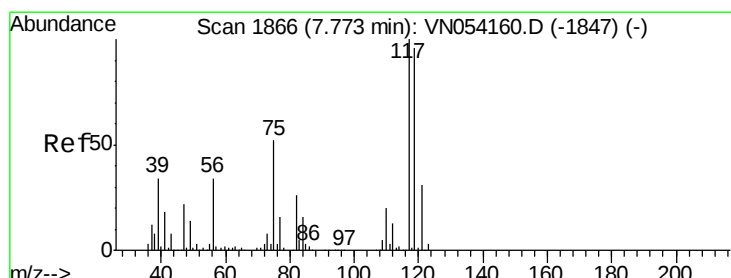
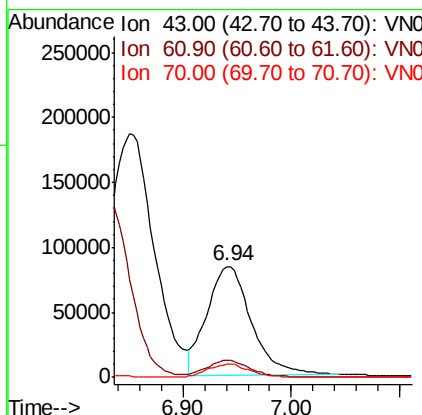
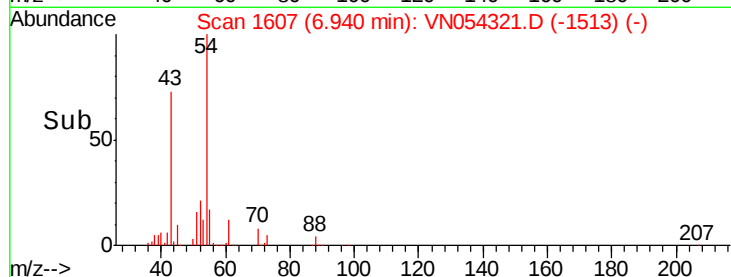
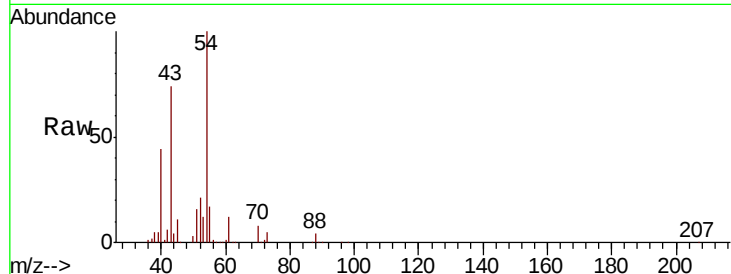
#37
Ethyl Acetate
Concen: 22.341 ug/l
RT: 6.94 min Scan# 1607
Delta R.T. 0.00 min
Lab File: VN054321.D
Acq: 15 Mar 2019 20:33

Instrument :
MSVOA_N
ClientSampleId :
VN0315WBSD01

Tgt Ion	Ratio	Lower	Upper
43	100		
61	14.8	11.8	17.6
70	11.8	8.4	12.6

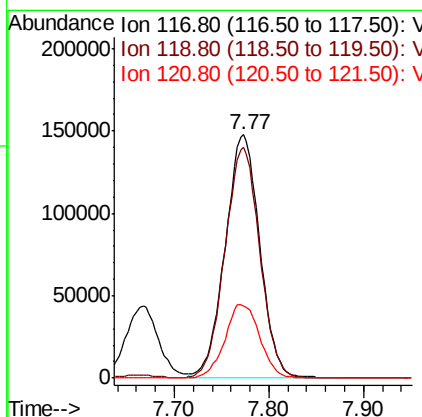
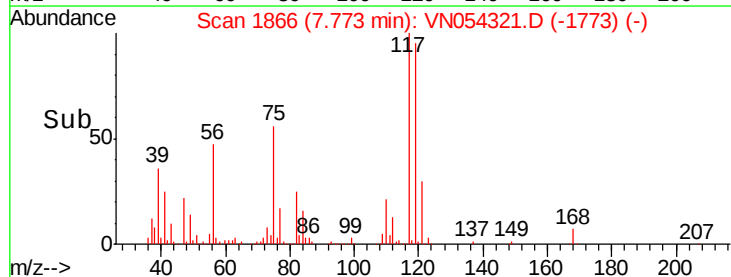
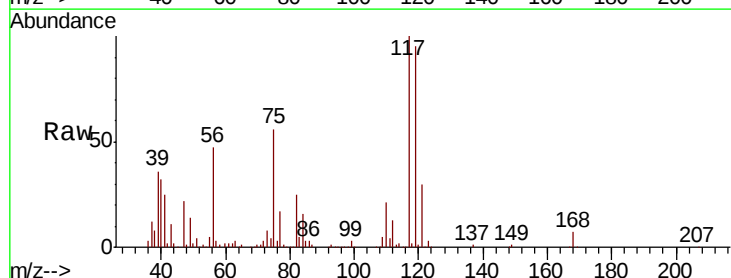
Manual Integrations
APPROVED

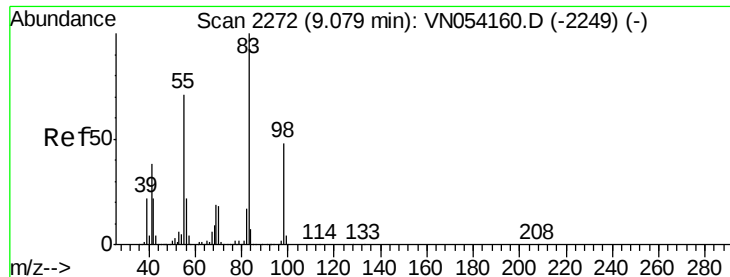
MMDadoda
3/16/2019 11:09:23 AM



#38
Carbon Tetrachloride
Concen: 19.172 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN054321.D
Acq: 15 Mar 2019 20:33

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.0	76.3	114.5
121	29.9	24.6	36.8





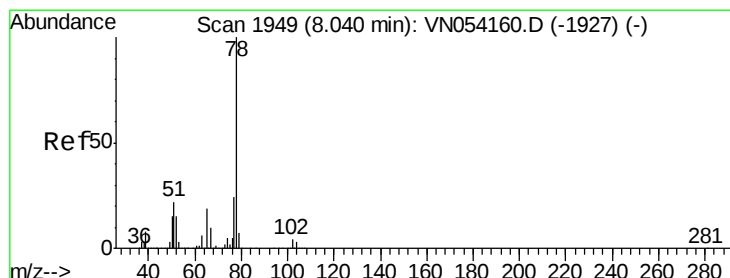
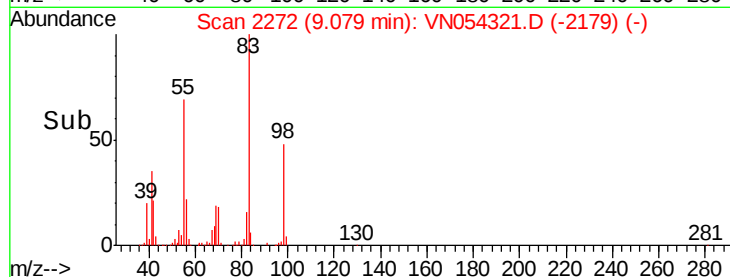
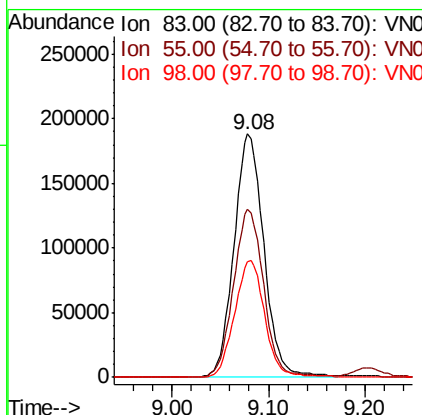
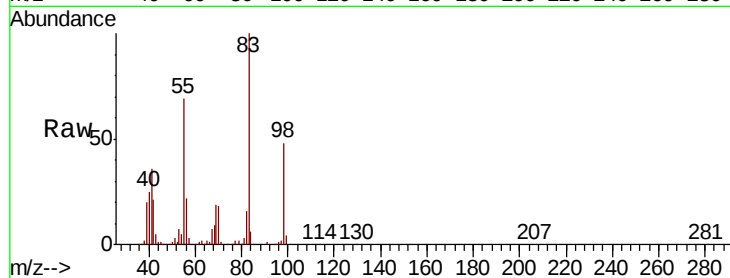
#39
Methylcyclohexane
Concen: 17.727 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VN054321.D
Acq: 15 Mar 2019 20:33

Instrument :
MSVOA_N
ClientSampleId :
VN0315WBSD01

Tgt Ion	Ratio	Lower	Upper
83	100		
55	68.9	56.6	84.8
98	47.6	38.4	57.6

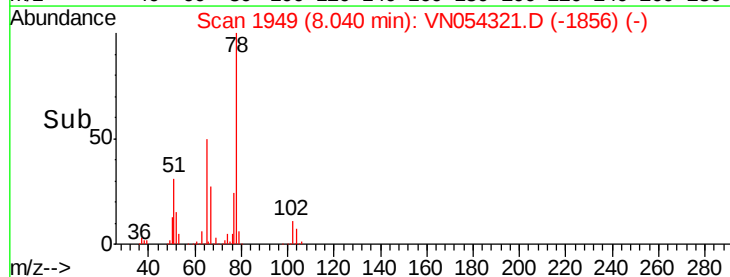
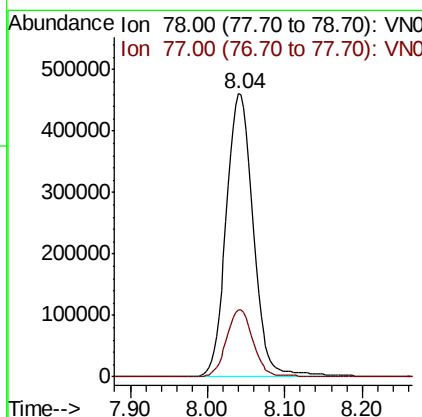
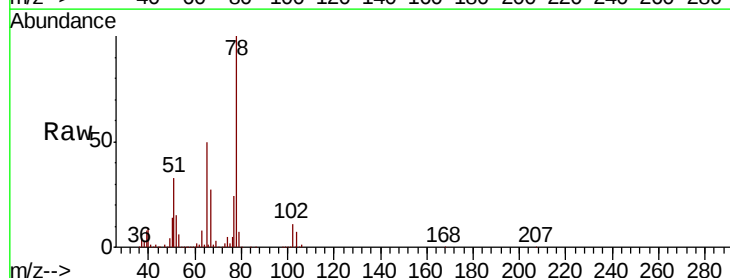
Manual Integrations
APPROVED

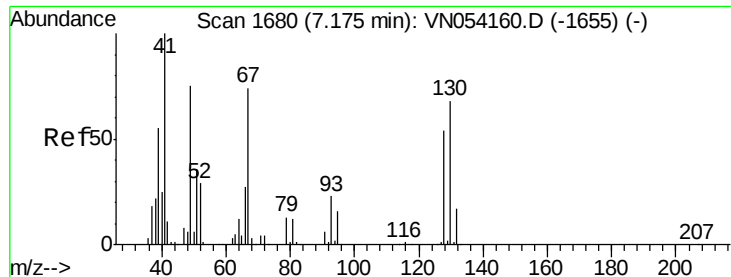
MMDadoda
3/16/2019 11:09:23 AM



#40
Benzene
Concen: 21.019 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN054321.D
Acq: 15 Mar 2019 20:33

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.9	19.1	28.7





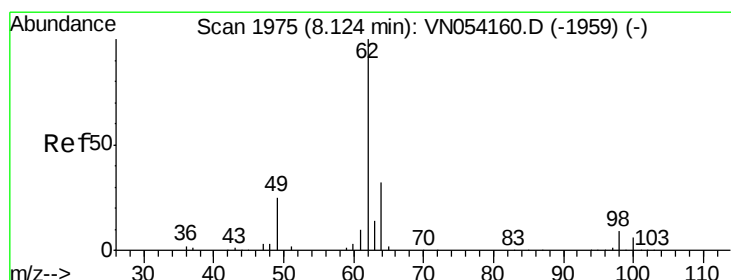
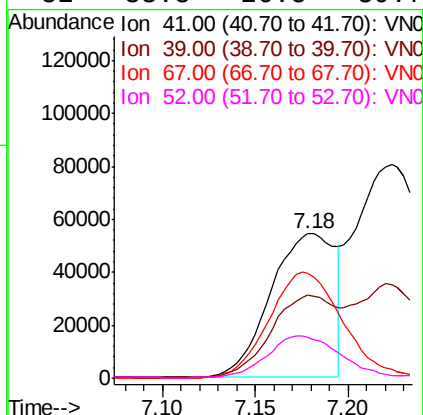
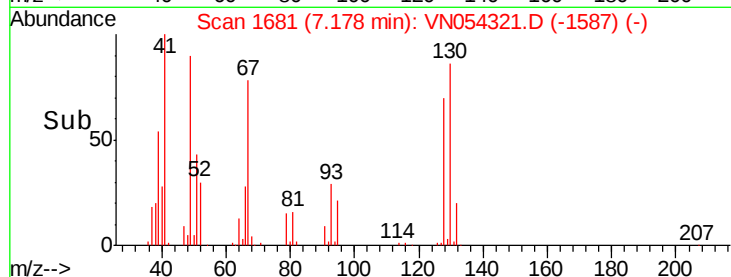
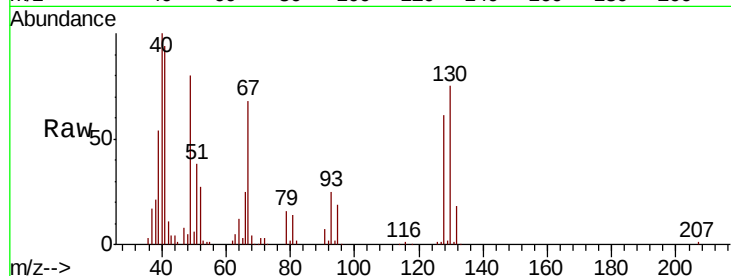
#41
Methacrylonitrile
Concen: 21.552 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VN054321.D
Acq: 15 Mar 2019 20:33

Instrument :
MSVOA_N
ClientSampleId :
VN0315WBSD01

Tgt Ion	Ratio	Lower	Upper
41	100		
39	55.3	46.8	70.2
67	86.2	67.0	100.4
52	33.8	26.5	39.7

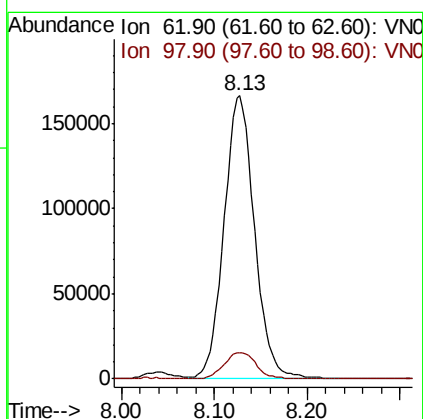
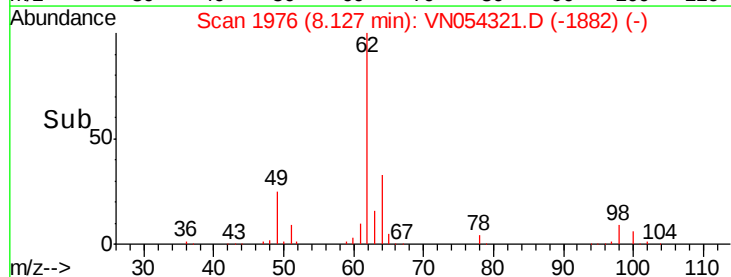
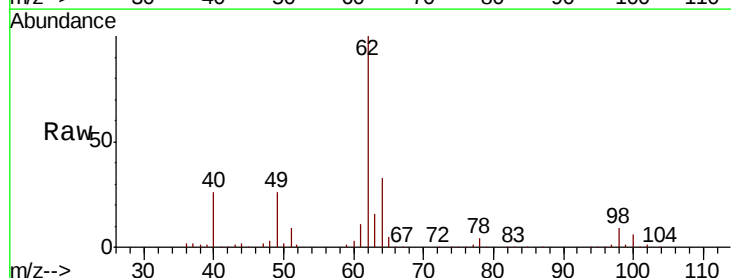
Manual Integrations
APPROVED

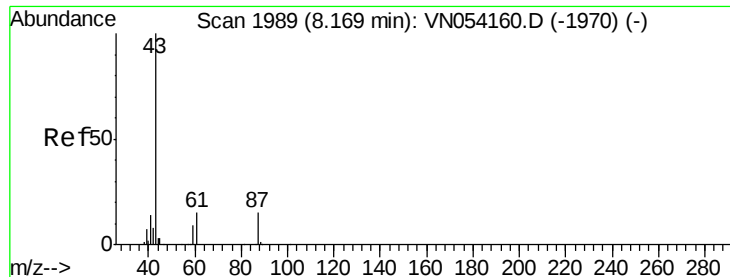
MMDadoda
3/16/2019 11:09:23 AM



#42
1,2-Dichloroethane
Concen: 20.992 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN054321.D
Acq: 15 Mar 2019 20:33

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.9	0.0	18.4





#43

Isopropyl Acetate

Concen: 20.821 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN054321.D

Acq: 15 Mar 2019 20:33

Instrument :

MSVOA_N

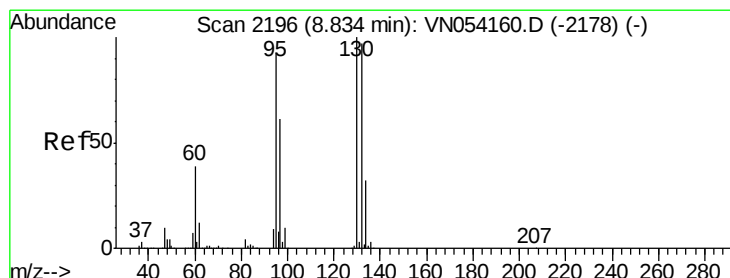
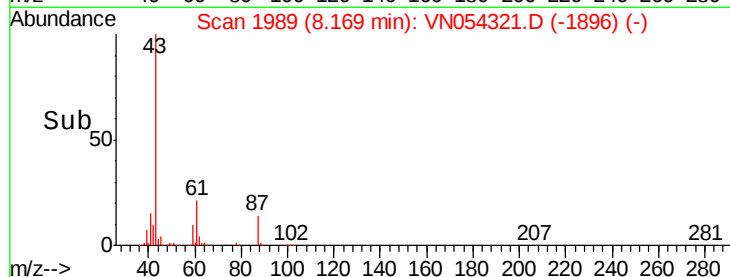
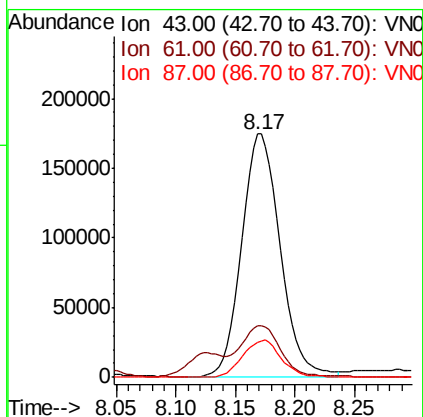
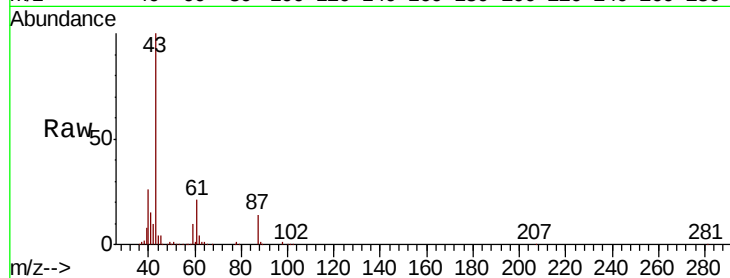
ClientSampleId :

VN0315WBSD01

Tgt Ion:	43	Resp:	390083
Ion Ratio		Lower	Upper
43	100		
61	21.4	15.8	23.8
87	15.4	12.0	18.0

Manual Integrations
APPROVED

MMDadoda
3/16/2019 11:09:23 AM



#44

Trichloroethene

Concen: 21.453 ug/l

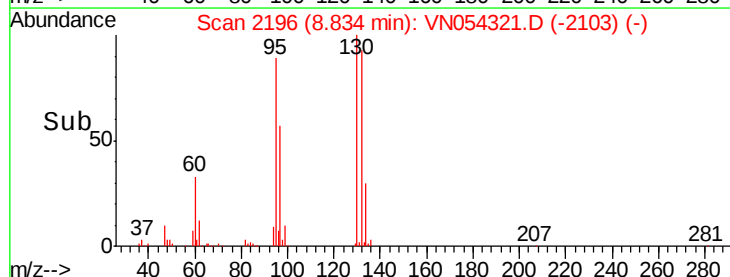
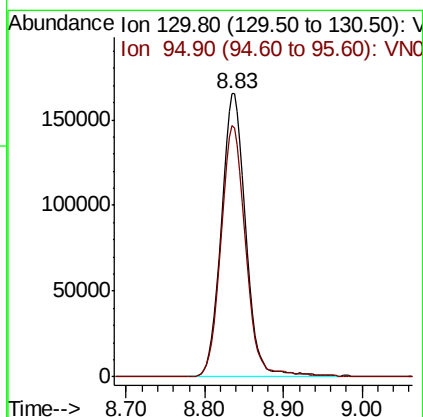
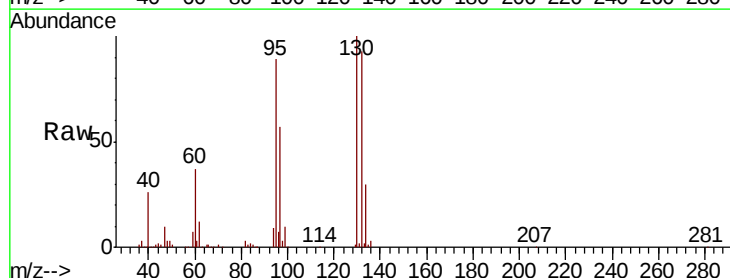
RT: 8.83 min Scan# 2196

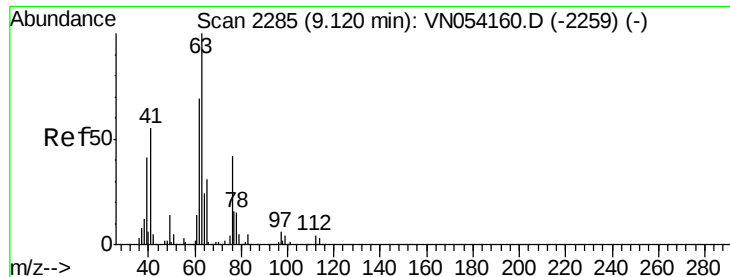
Delta R.T. 0.00 min

Lab File: VN054321.D

Acq: 15 Mar 2019 20:33

Tgt Ion:	130	Resp:	354265
Ion Ratio		Lower	Upper
130	100		
95	88.6	0.0	185.2





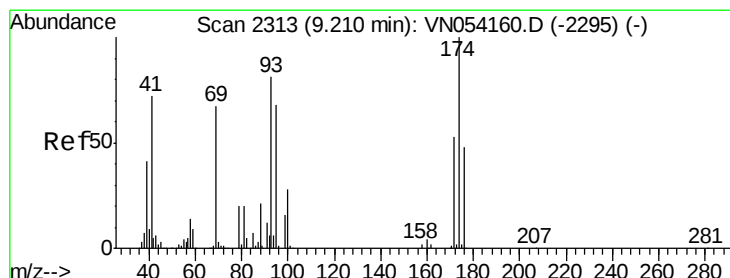
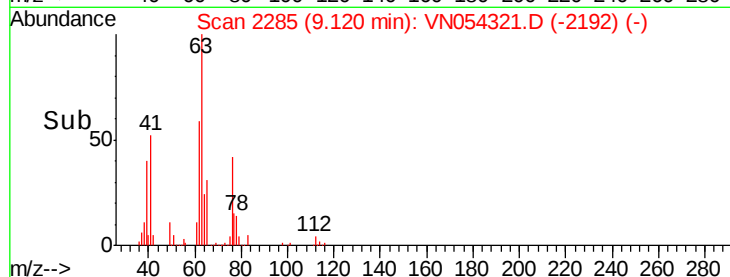
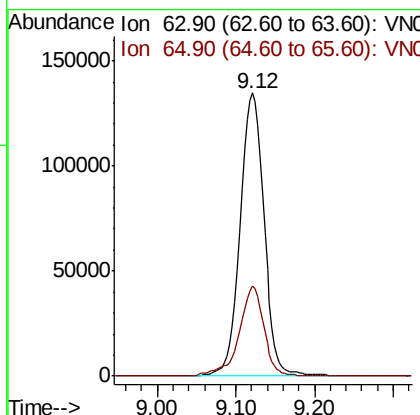
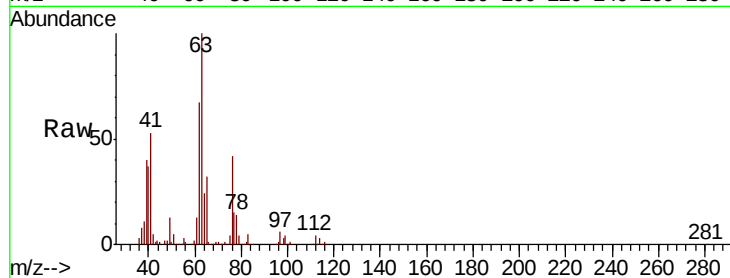
#45
 1,2-Dichloropropane
 Concen: 21.780 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN054321.D
 Acq: 15 Mar 2019 20:33

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0315WBSD01

Tgt Ion	Ratio	Lower	Upper
63	100		
65	31.6	25.0	37.6

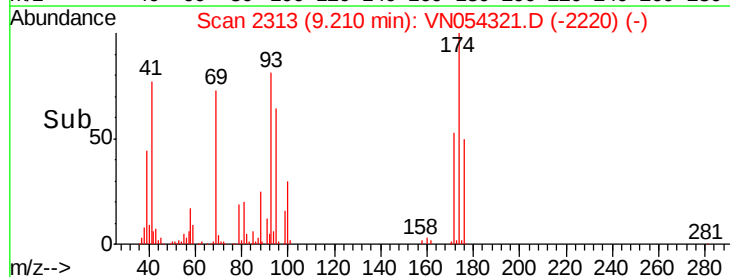
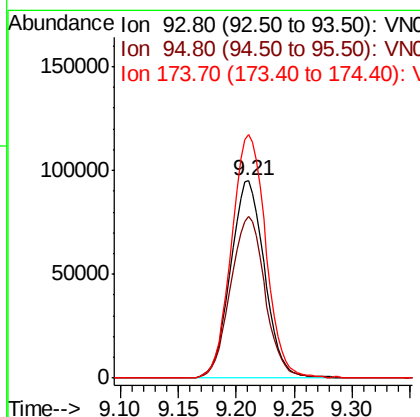
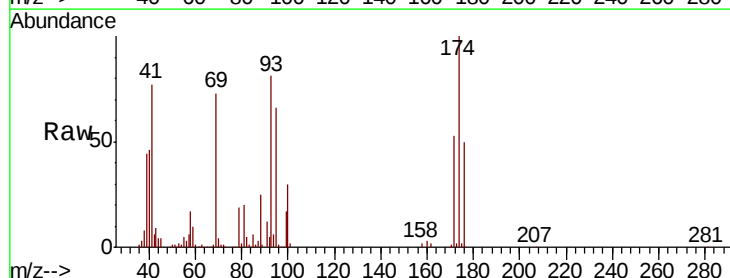
Manual Integrations
 APPROVED

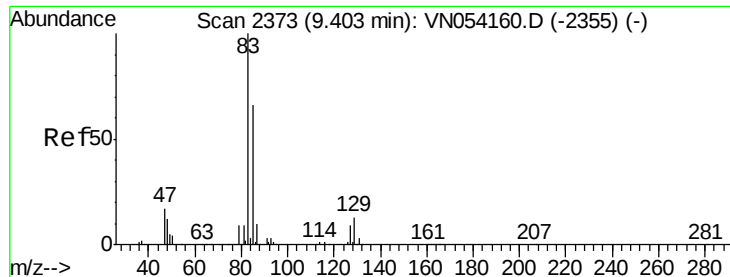
MMDadoda
 3/16/2019 11:09:23 AM



#46
 Dibromomethane
 Concen: 21.710 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN054321.D
 Acq: 15 Mar 2019 20:33

Tgt Ion	Ratio	Lower	Upper
93	100		
95	83.5	66.7	100.1
174	123.9	98.5	147.7





#47

Bromodichloromethane

Concen: 20.256 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN054321.D

Acq: 15 Mar 2019 20:33

Instrument :

MSVOA_N

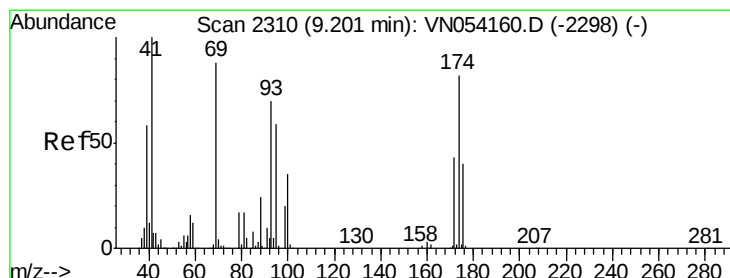
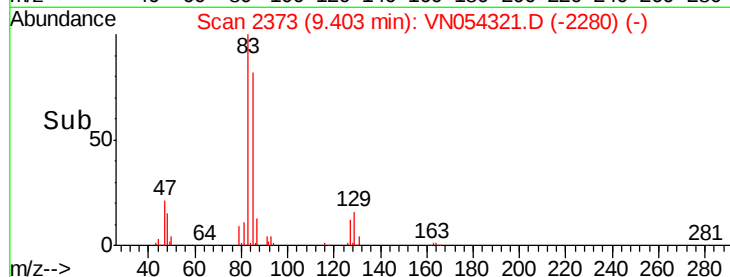
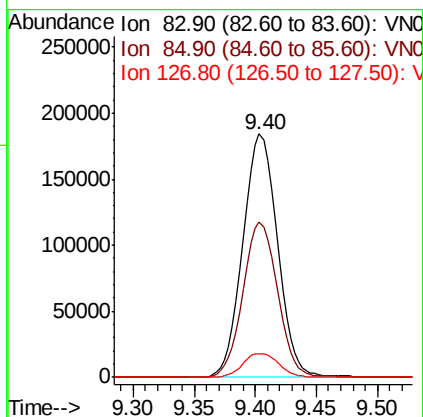
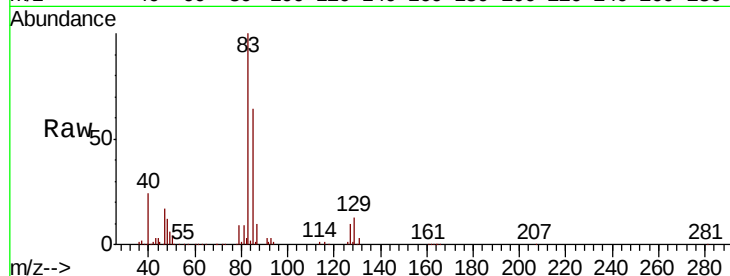
ClientSampleId :

VN0315WBSD01

Tgt Ion:	83	Resp:	362162
Ion Ratio	Lower	Upper	
83	100		
85	63.6	52.8	79.2
127	9.6	7.4	11.2

Manual Integrations
APPROVED

MMDadoda
3/16/2019 11:09:23 AM



#48

Methyl methacrylate

Concen: 21.947 ug/l

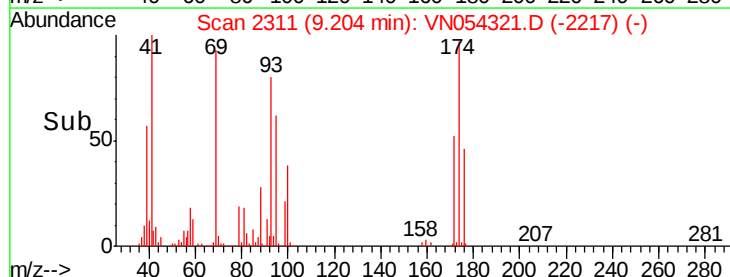
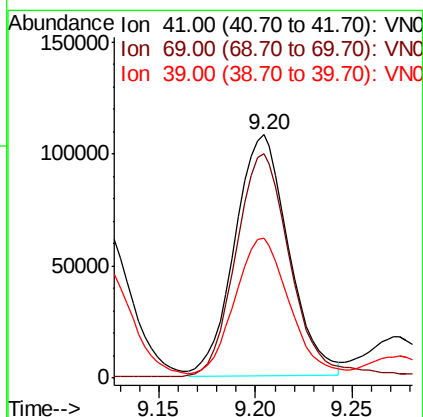
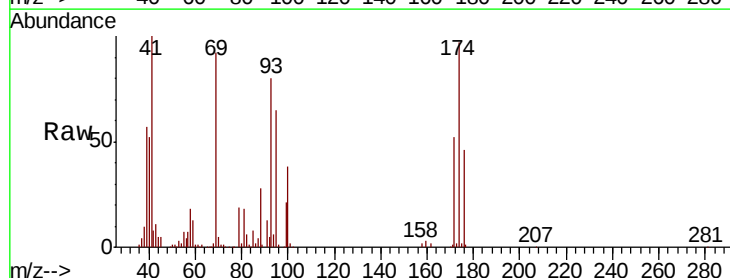
RT: 9.20 min Scan# 2311

Delta R.T. 0.00 min

Lab File: VN054321.D

Acq: 15 Mar 2019 20:33

Tgt Ion:	41	Resp:	208670
Ion Ratio	Lower	Upper	
41	100		
69	94.7	72.6	108.8
39	58.7	47.5	71.3





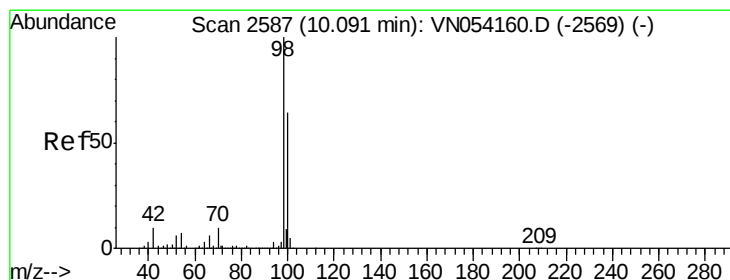
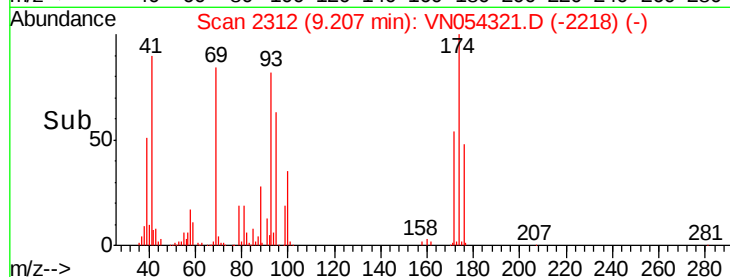
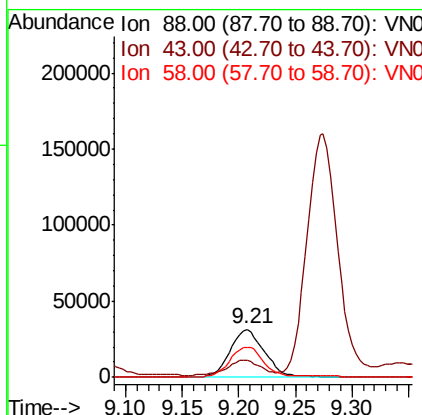
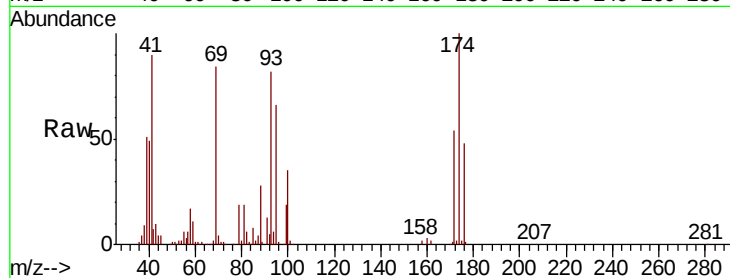
#49
1,4-Dioxane
Concen: 499.933 ug/l
RT: 9.21 min Scan# 2312
Delta R.T. 0.00 min
Lab File: VN054321.D
Acq: 15 Mar 2019 20:33

Instrument :
MSVOA_N
ClientSampleId :
VN0315WBSD01

Tgt Ion	Ratio	Lower	Upper
88	100		
43	29.0	24.1	36.1
58	63.8	50.8	76.2

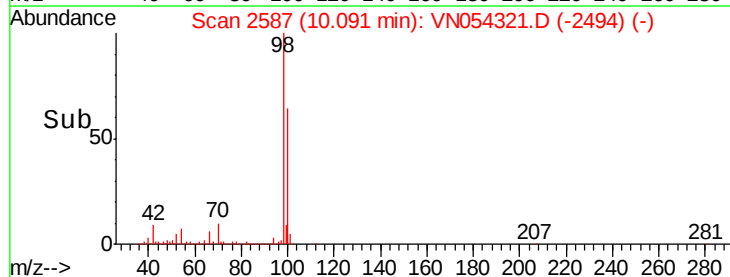
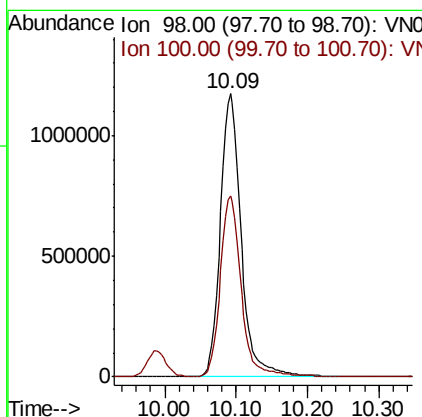
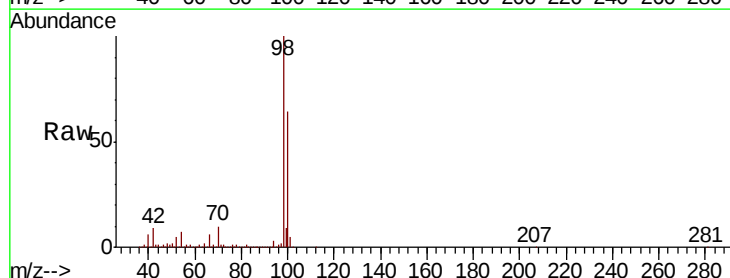
Manual Integrations
APPROVED

MMDadoda
3/16/2019 11:09:23 AM



#50
Toluene-d8
Concen: 49.609 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN054321.D
Acq: 15 Mar 2019 20:33

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.2	51.2	76.8





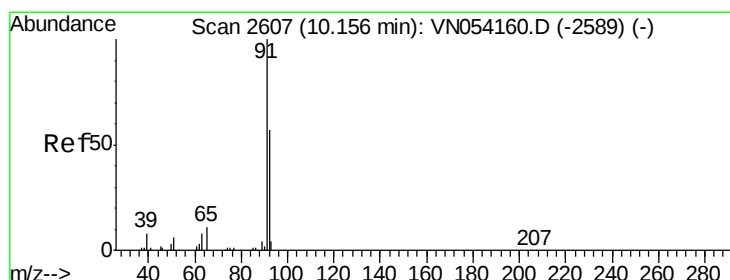
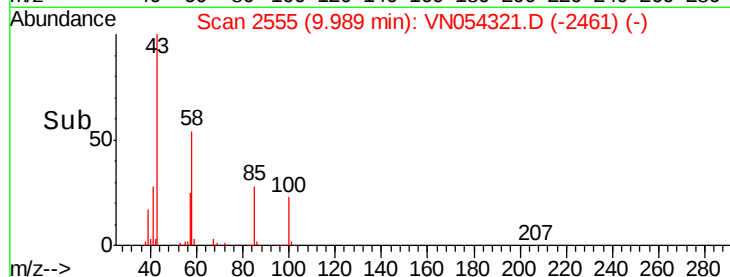
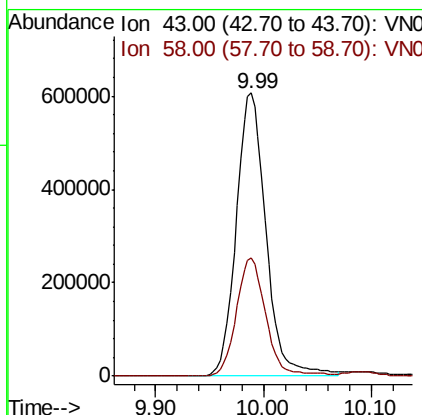
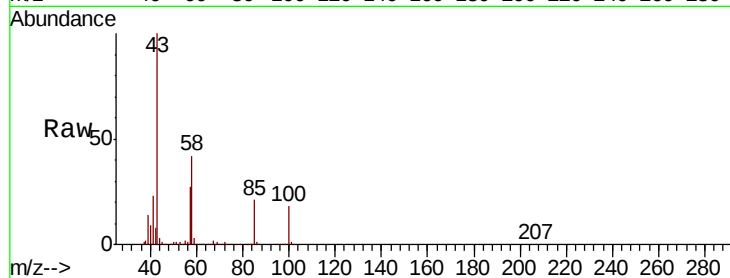
#51
4-Methyl-2-Pentanone
Concen: 117.251 ug/l
RT: 9.99 min Scan# 2555
Delta R.T. 0.00 min
Lab File: VN054321.D
Acq: 15 Mar 2019 20:33

Instrument :
MSVOA_N
ClientSampleId :
VN0315WBSD01

Tgt Ion: 43 Resp: 1162527
Ion Ratio Lower Upper
43 100
58 41.5 31.8 47.6

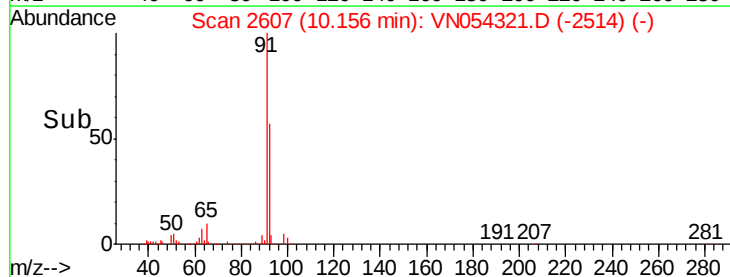
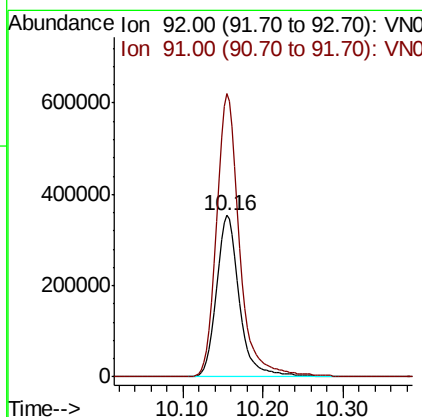
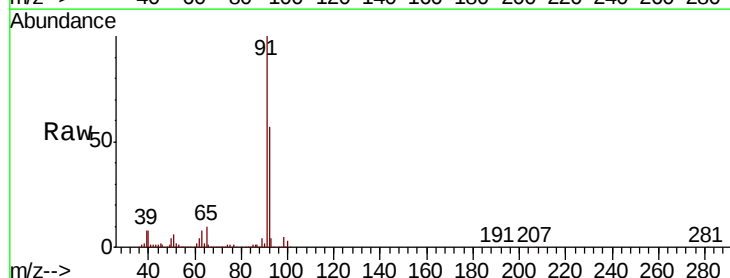
Manual Integrations
APPROVED

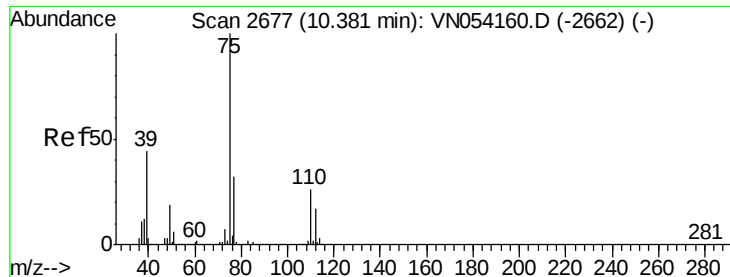
MMDadoda
3/16/2019 11:09:23 AM



#52
Toluene
Concen: 20.877 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. 0.00 min
Lab File: VN054321.D
Acq: 15 Mar 2019 20:33

Tgt Ion: 92 Resp: 703675
Ion Ratio Lower Upper
92 100
91 175.6 140.7 211.1





#53

t-1,3-Dichloropropene

Concen: 16.794 ug/l

RT: 10.38 min Scan# 2678

Delta R.T. 0.00 min

Lab File: VN054321.D

Acq: 15 Mar 2019 20:33

Instrument :

MSVOA_N

ClientSampleId :

VN0315WBSD01

Tgt Ion: 75 Resp: 315350

Ion Ratio Lower Upper

75 100

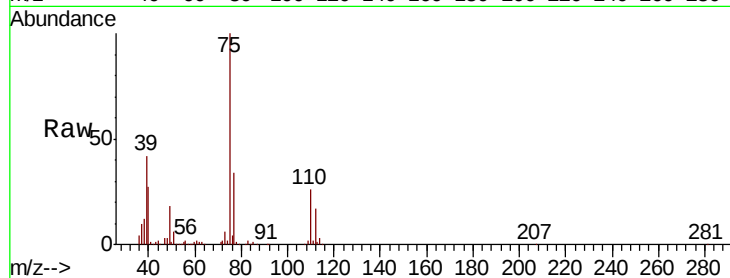
77 33.3 25.8 38.8

Manual Integrations

APPROVED

MMDadoda

3/16/2019 11:09:23 AM



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

10.38

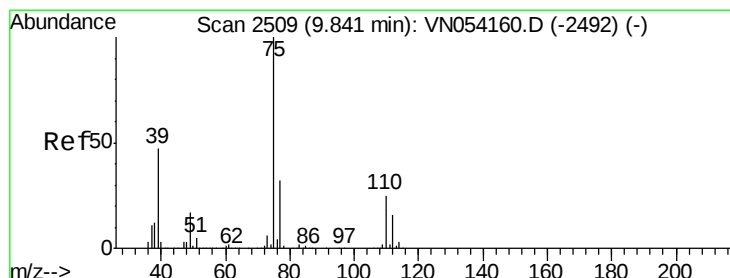
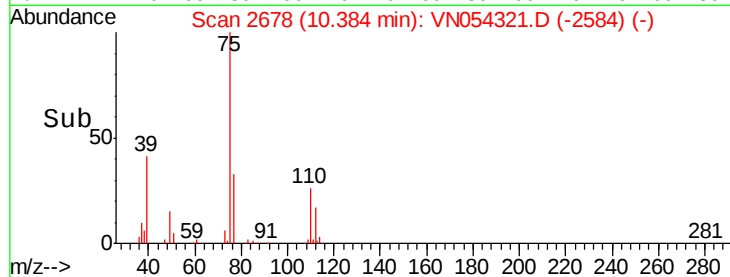
150000

100000

50000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 18.709 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN054321.D

Acq: 15 Mar 2019 20:33

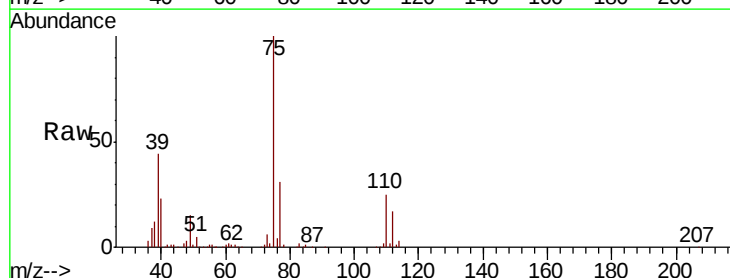
Tgt Ion: 75 Resp: 389796

Ion Ratio Lower Upper

75 100

77 31.3 25.4 38.0

39 44.1 37.2 55.8



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

9.84

250000

200000

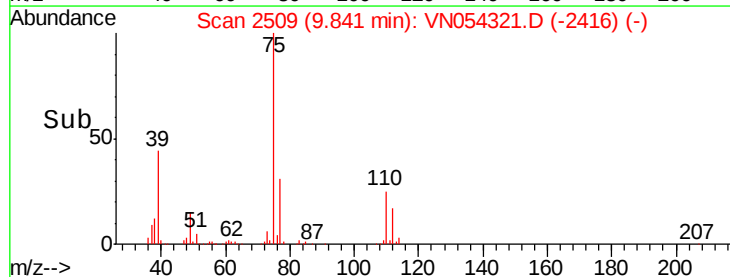
150000

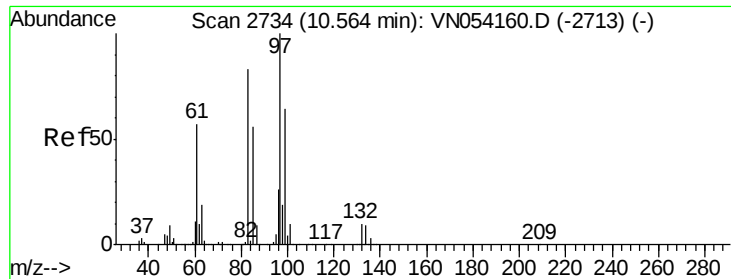
100000

50000

0

Time-->





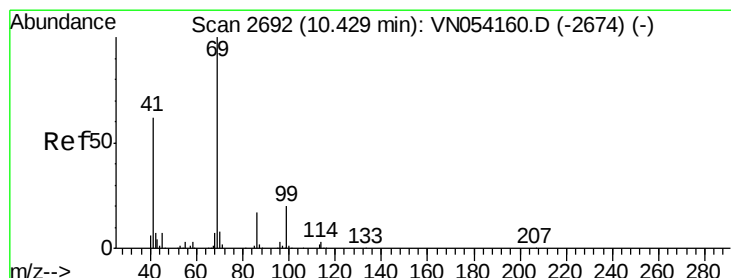
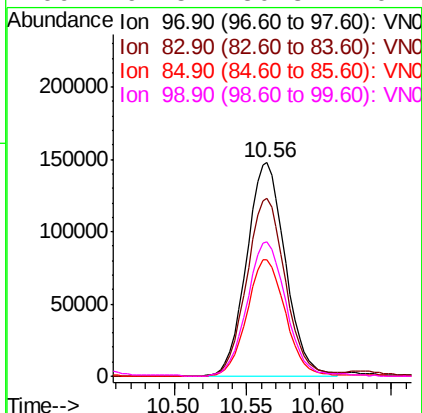
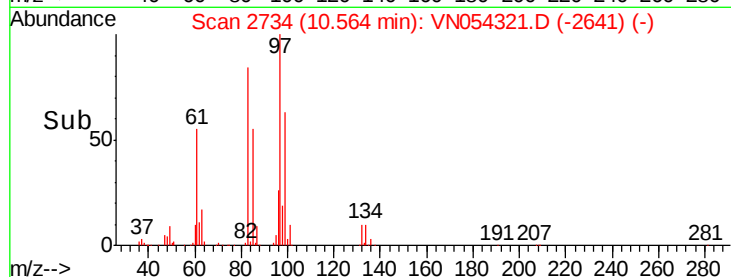
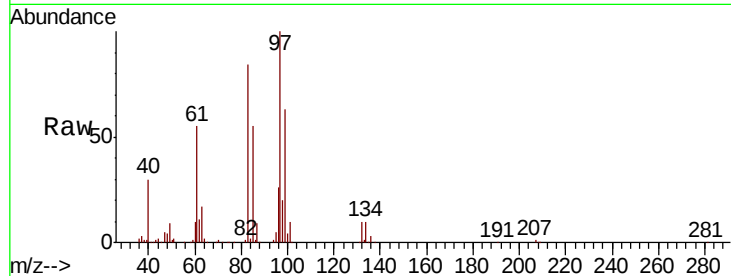
#55
 1,1,2-Trichloroethane
 Concen: 22.324 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN054321.D
 Acq: 15 Mar 2019 20:33

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0315WBSD01

Tgt Ion	Ratio	Lower	Upper
97	100		
83	83.5	66.6	100.0
85	54.6	44.4	66.6
99	62.5	50.8	76.2

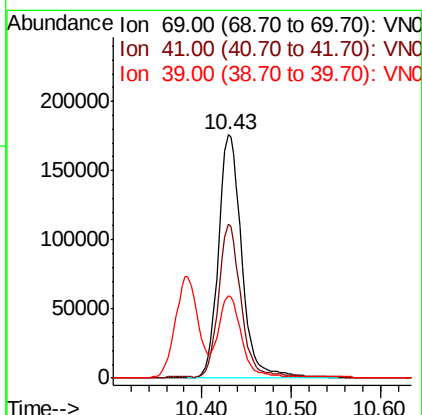
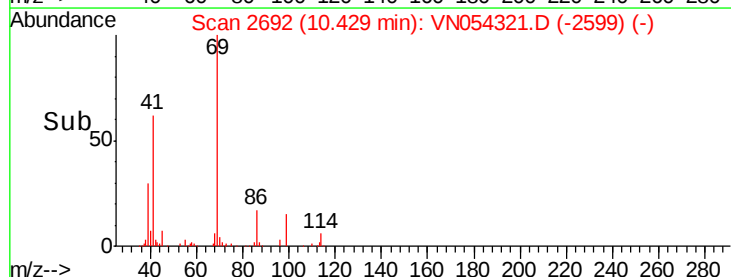
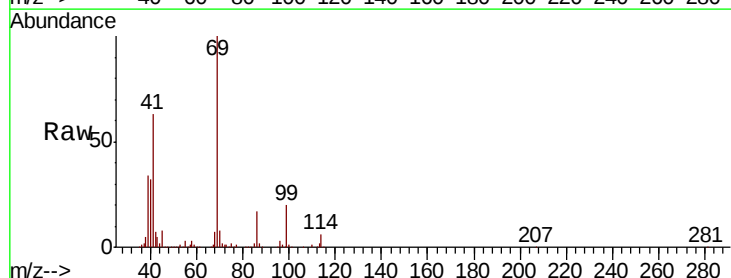
Manual Integrations
 APPROVED

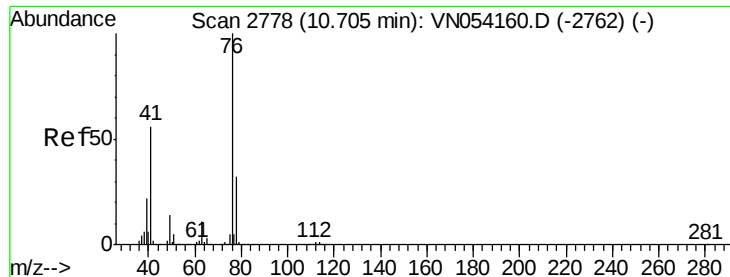
MMDadoda
 3/16/2019 11:09:23 AM



#56
 Ethyl methacrylate
 Concen: 21.784 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN054321.D
 Acq: 15 Mar 2019 20:33

Tgt Ion	Ratio	Lower	Upper
69	100		
41	59.7	49.4	74.2
39	32.9	28.3	42.5





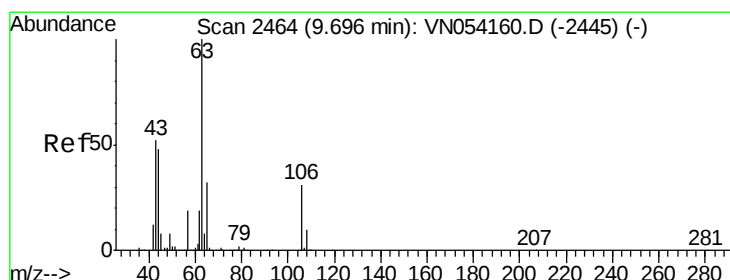
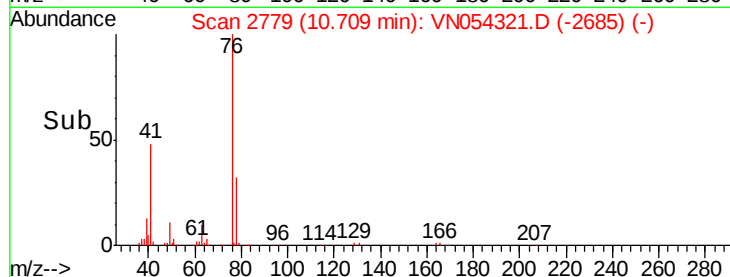
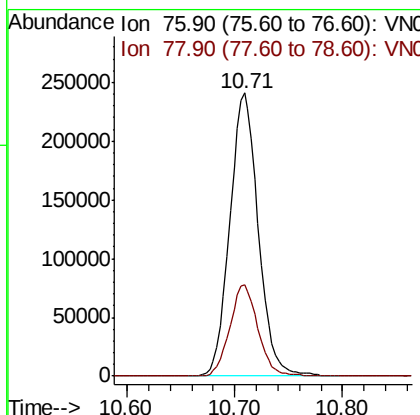
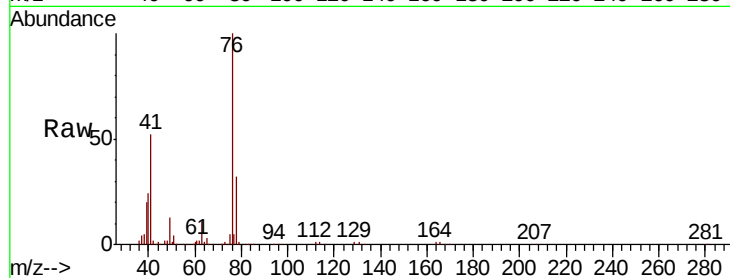
#57
 1,3-Dichloropropane
 Concen: 22.023 ug/l
 RT: 10.71 min Scan# 2779
 Delta R.T. 0.00 min
 Lab File: VN054321.D
 Acq: 15 Mar 2019 20:33

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0315WBSD01

Tgt Ion: 76 Resp: 443200
 Ion Ratio Lower Upper
 76 100
 78 32.2 25.7 38.5

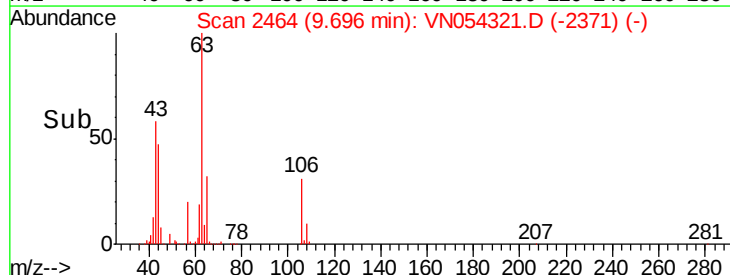
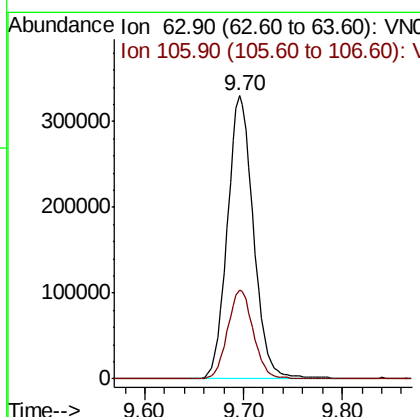
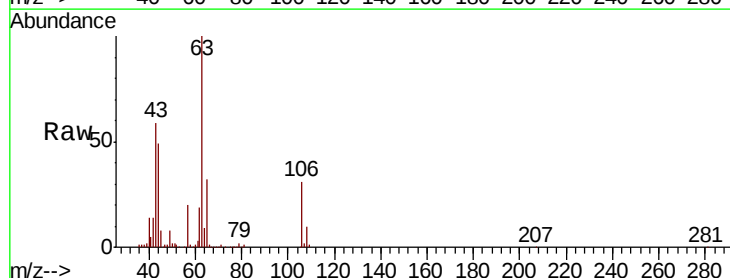
Manual Integrations
 APPROVED

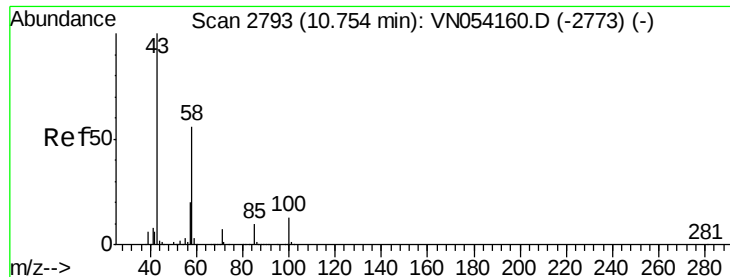
MMDadoda
 3/16/2019 11:09:23 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 106.383 ug/l
 RT: 9.70 min Scan# 2464
 Delta R.T. 0.00 min
 Lab File: VN054321.D
 Acq: 15 Mar 2019 20:33

Tgt Ion: 63 Resp: 611307
 Ion Ratio Lower Upper
 63 100
 106 31.1 24.4 36.6





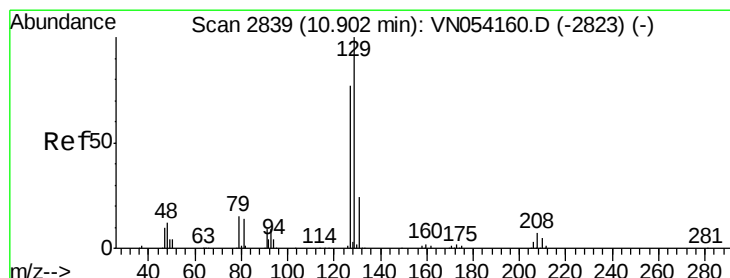
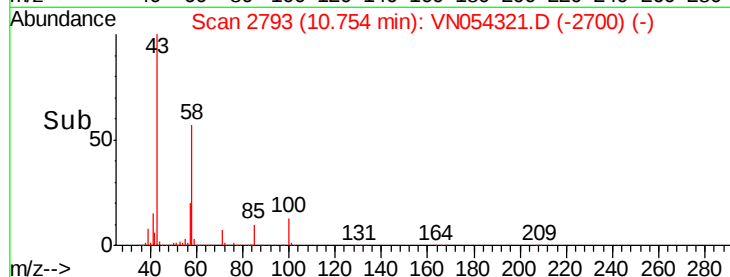
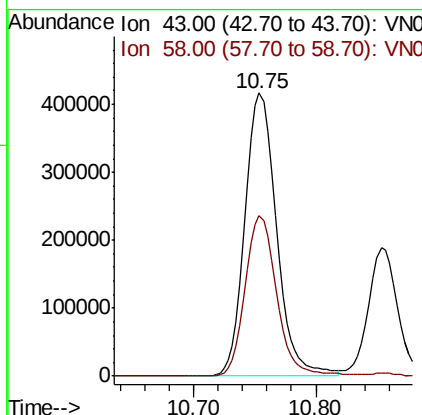
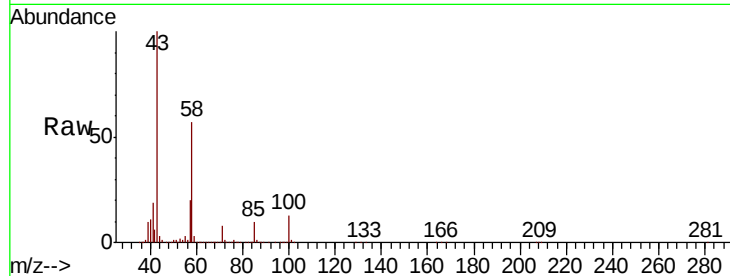
#59
2-Hexanone
Concen: 112.289 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN054321.D
Acq: 15 Mar 2019 20:33

Instrument :
MSVOA_N
ClientSampleId :
VN0315WBSD01

Tgt Ion: 43 Resp: 740808
Ion Ratio Lower Upper
43 100
58 56.9 28.0 83.9

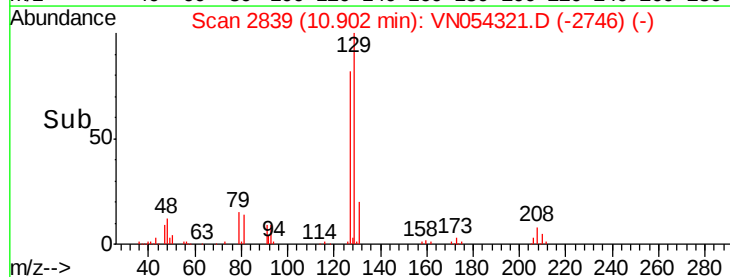
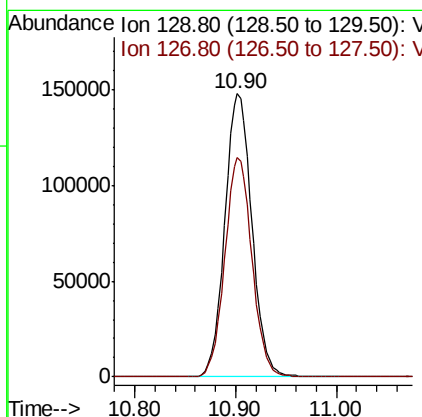
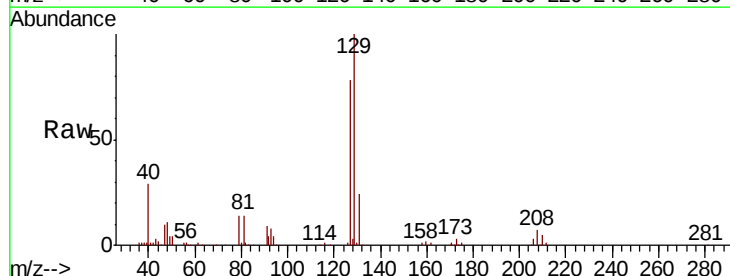
Manual Integrations
APPROVED

MMDadoda
3/16/2019 11:09:23 AM



#60
Dibromochloromethane
Concen: 19.960 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN054321.D
Acq: 15 Mar 2019 20:33

Tgt Ion: 129 Resp: 276499
Ion Ratio Lower Upper
129 100
127 77.8 38.6 115.8





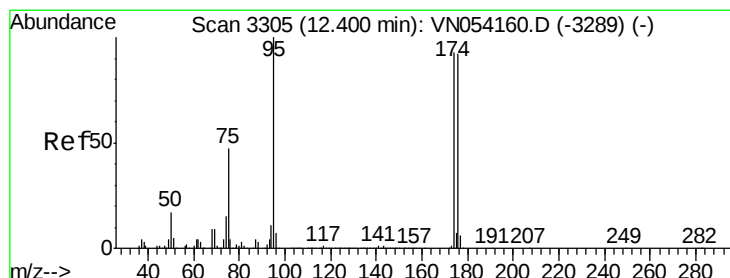
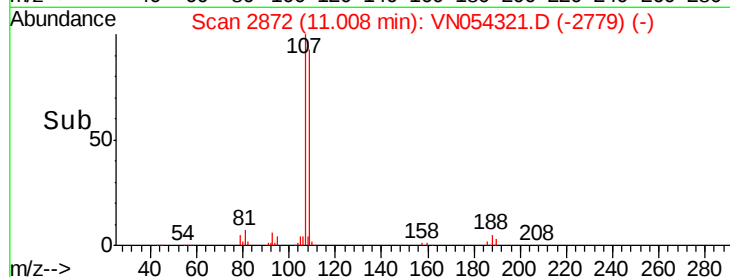
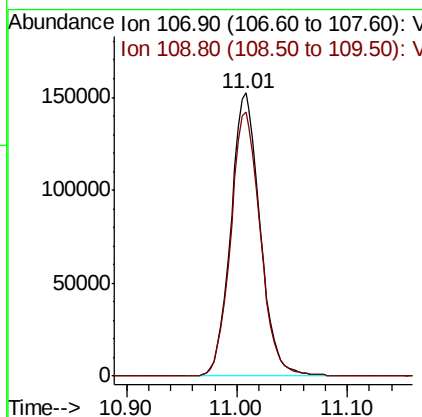
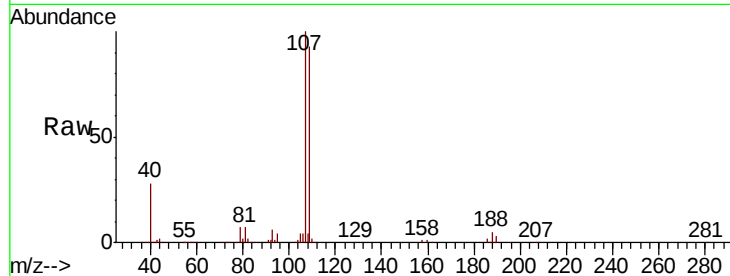
#61
1,2-Dibromoethane
Concen: 22.411 ug/l
RT: 11.01 min Scan# 2872
Delta R.T. 0.00 min
Lab File: VN054321.D
Acq: 15 Mar 2019 20:33

Instrument :
MSVOA_N
ClientSampleId :
VN0315WBSD01

Tgt Ion	Ratio	Resp	Lower	Upper
107	100	280292		
109	94.9	75.9	113.9	

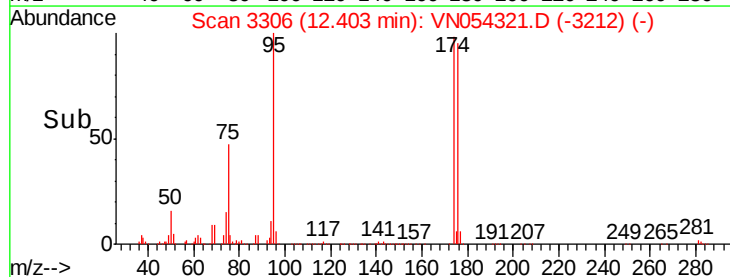
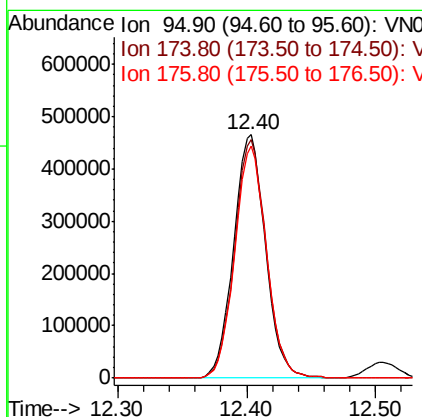
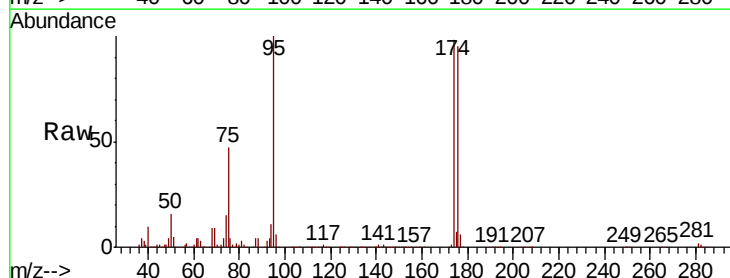
Manual Integrations
APPROVED

MMDadoda
3/16/2019 11:09:23 AM



#62
4-Bromofluorobenzene
Concen: 47.494 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN054321.D
Acq: 15 Mar 2019 20:33

Tgt Ion	Ratio	Resp	Lower	Upper
95	100	798459		
174	97.5	0.0	191.0	
176	95.2	0.0	187.4	





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN054321.D

Acq: 15 Mar 2019 20:33

Instrument :

MSVOA_N

ClientSampleId :

VN0315WBSD01

Tgt Ion:117 Resp: 1746444

Ion Ratio Lower Upper

117 100

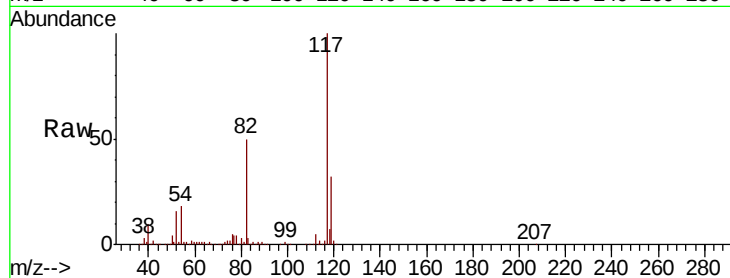
82 50.2 40.0 60.0

119 32.0 25.8 38.6

Manual Integrations
APPROVED

MMDadoda

3/16/2019 11:09:23 AM

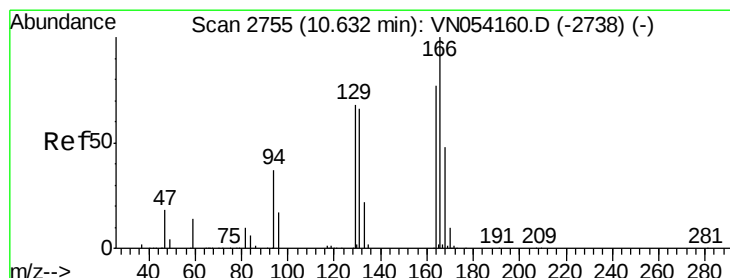
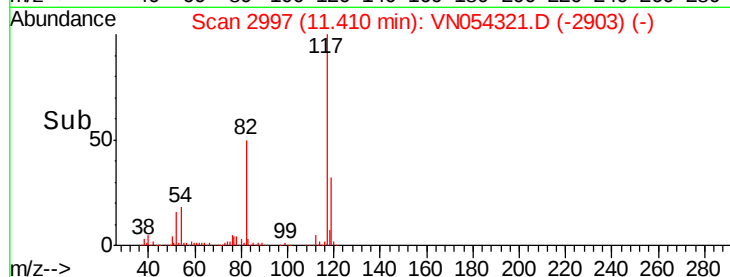
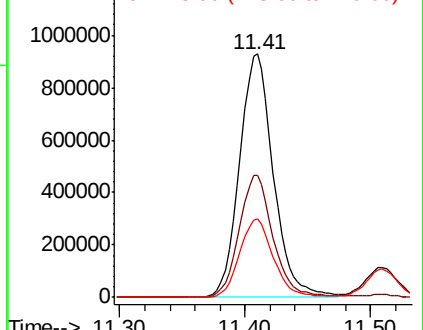


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64

Tetrachloroethene

Concen: 20.491 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN054321.D

Acq: 15 Mar 2019 20:33

Tgt Ion:164 Resp: 345992

Ion Ratio Lower Upper

164 100

166 128.1 103.9 155.9

129 84.6 71.1 106.7

131 83.6 68.2 102.4

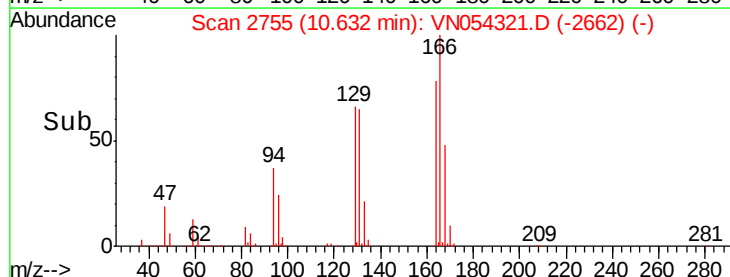
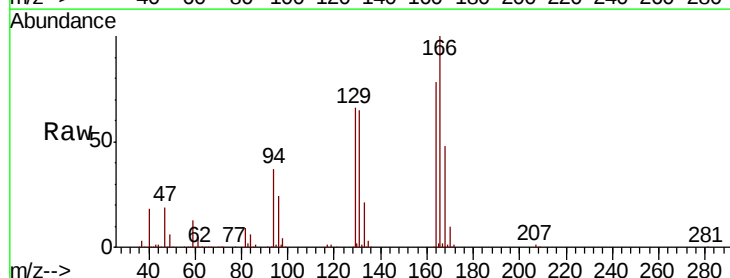
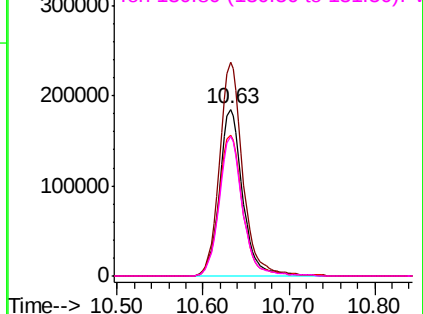
Abundance

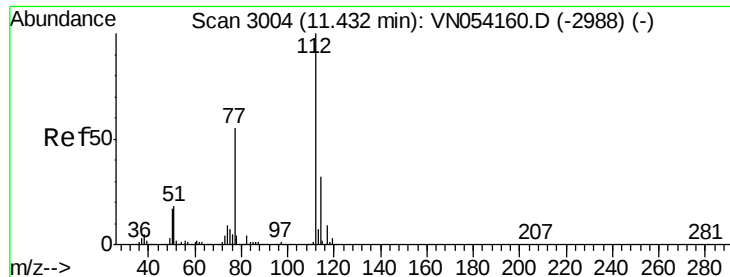
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





#65

Chlorobenzene

Concen: 20.917 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN054321.D

Acq: 15 Mar 2019 20:33

Instrument :

MSVOA_N

ClientSampleId :

VN0315WBSD01

Tgt Ion:112 Resp: 802097

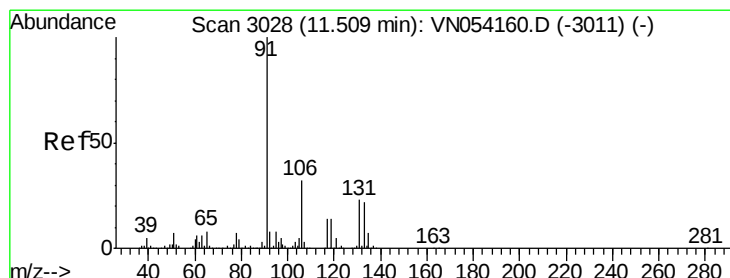
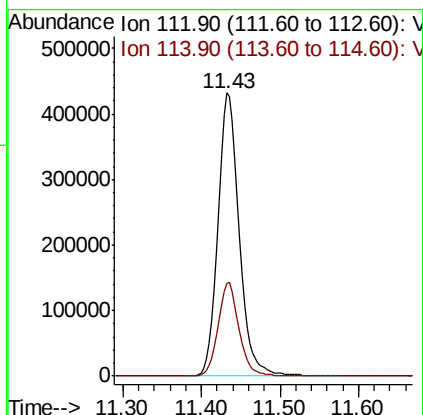
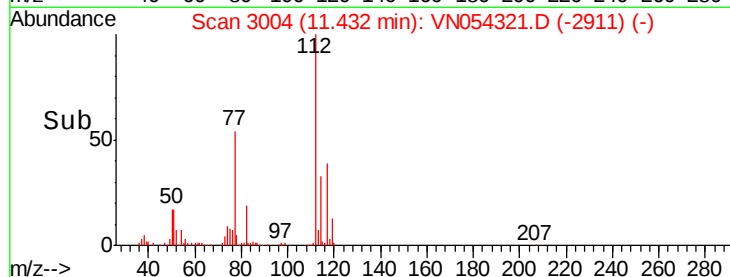
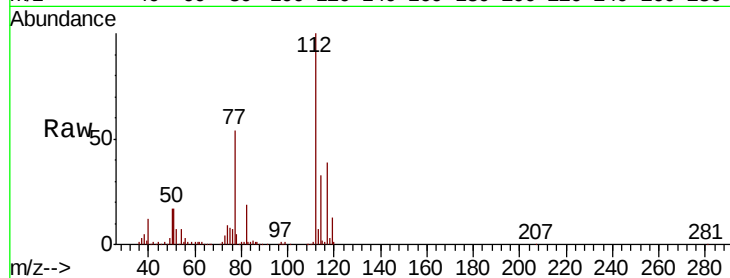
Ion Ratio Lower Upper

112 100

114 32.8 25.9 38.9

Manual Integrations
APPROVED

MMDadoda
3/16/2019 11:09:23 AM



#66

1,1,1,2-Tetrachloroethane

Concen: 20.738 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN054321.D

Acq: 15 Mar 2019 20:33

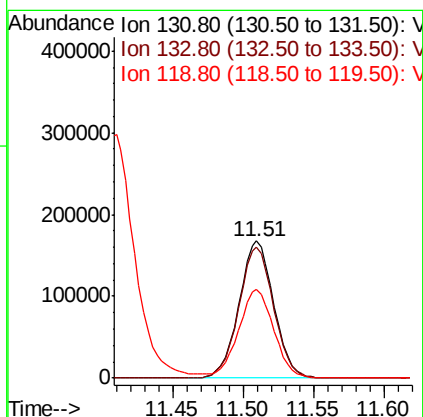
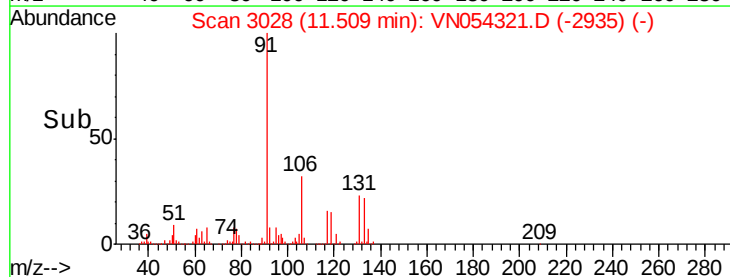
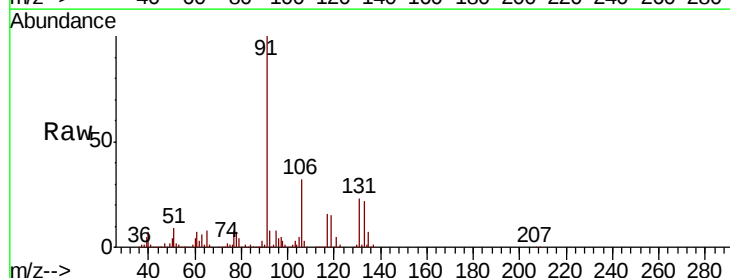
Tgt Ion:131 Resp: 288890

Ion Ratio Lower Upper

131 100

133 96.3 47.6 142.9

119 66.2 32.4 97.0





#67

Ethyl Benzene

Concen: 20.354 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. 0.00 min

Lab File: VN054321.D

Acq: 15 Mar 2019 20:33

Instrument :

MSVOA_N

ClientSampleId :

VN0315WBSD01

Tgt Ion: 91 Resp: 1293866

Ion Ratio Lower Upper

91 100

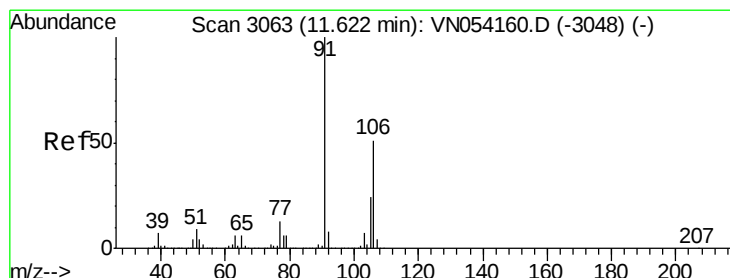
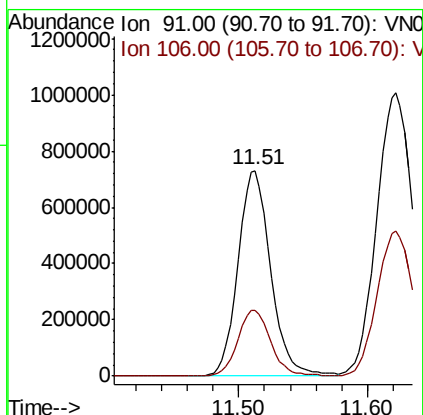
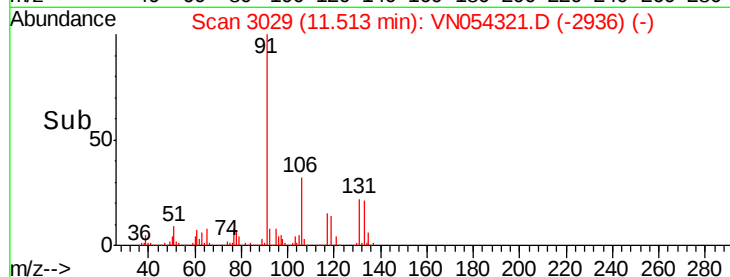
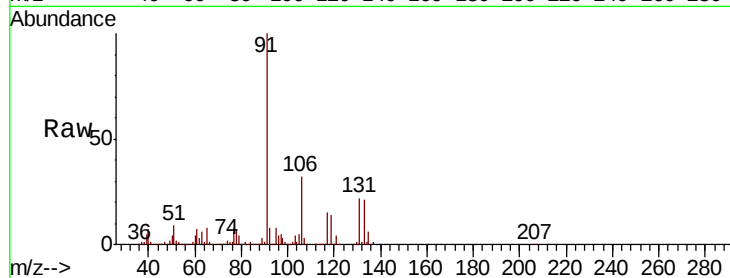
106 32.0 25.5 38.3

Manual Integrations

APPROVED

MMDadoda

3/16/2019 11:09:23 AM



#68

m/p-Xylenes

Concen: 41.643 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN054321.D

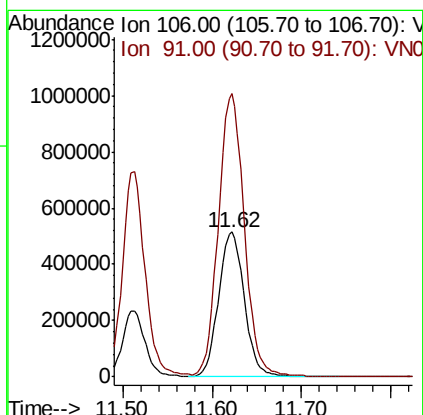
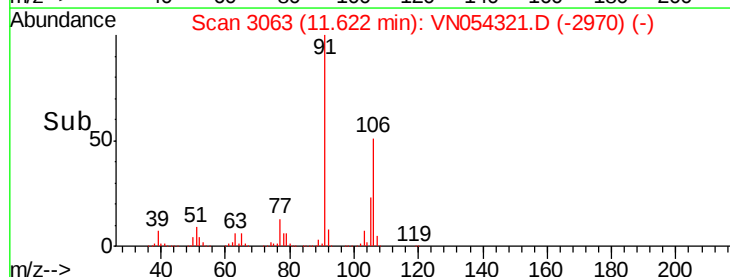
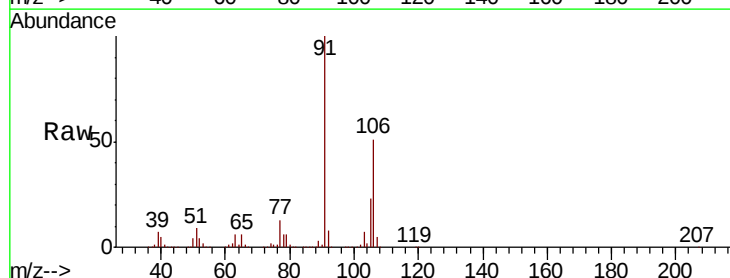
Acq: 15 Mar 2019 20:33

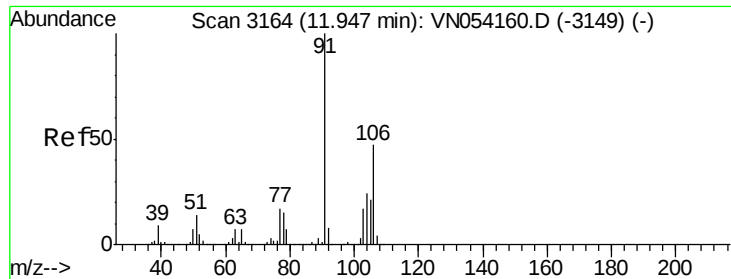
Tgt Ion: 106 Resp: 1034628

Ion Ratio Lower Upper

106 100

91 196.2 159.4 239.2





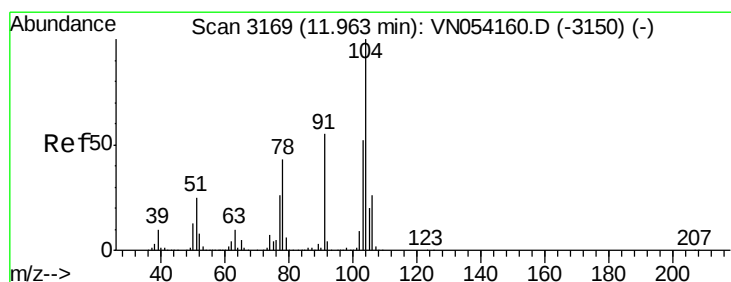
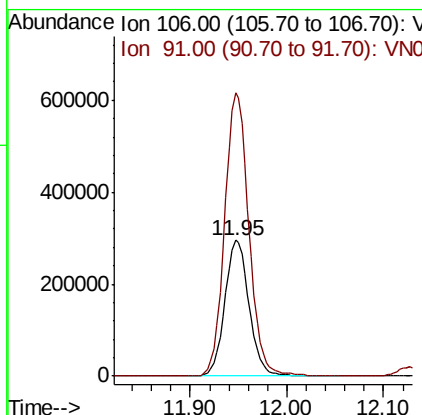
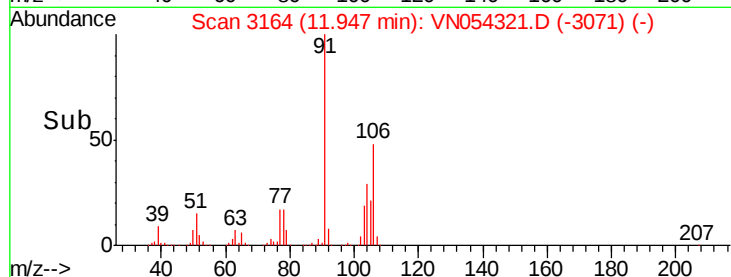
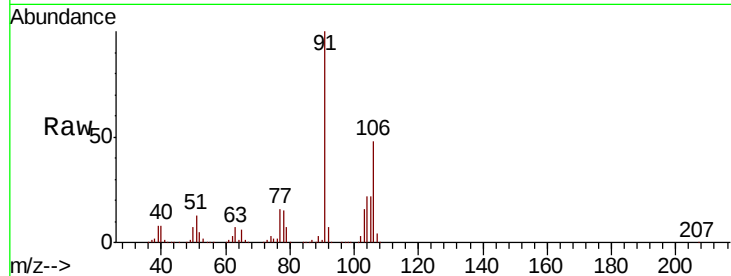
#69
o-Xylene
Concen: 21.239 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN054321.D
Acq: 15 Mar 2019 20:33

Instrument :
MSVOA_N
ClientSampled :
VN0315WBSD01

Tgt Ion:106 Resp: 514395
Ion Ratio Lower Upper
106 100
91 208.2 105.7 317.1

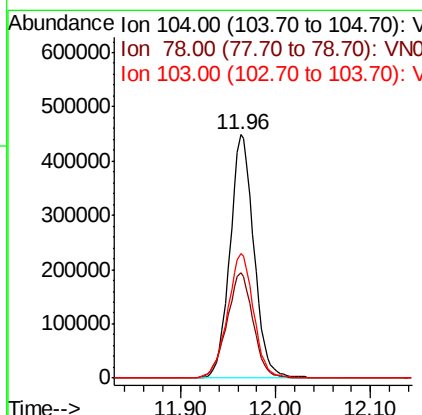
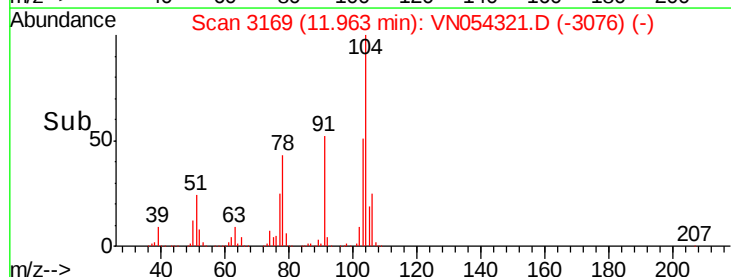
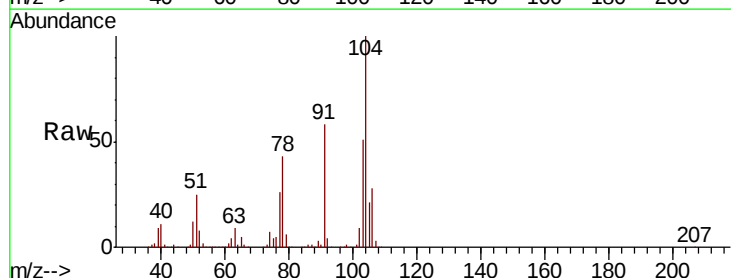
Manual Integrations
APPROVED

MMDadoda
3/16/2019 11:09:23 AM



#70
Styrene
Concen: 20.797 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN054321.D
Acq: 15 Mar 2019 20:33

Tgt Ion:104 Resp: 789957
Ion Ratio Lower Upper
104 100
78 47.5 38.2 57.2
103 55.7 44.4 66.6





#71

Bromoform

Concen: 18.738 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN054321.D

Acq: 15 Mar 2019 20:33

Instrument :

MSVOA_N

ClientSampled :

VN0315WBSD01

Tgt Ion:173 Resp: 182608

Ion Ratio Lower Upper

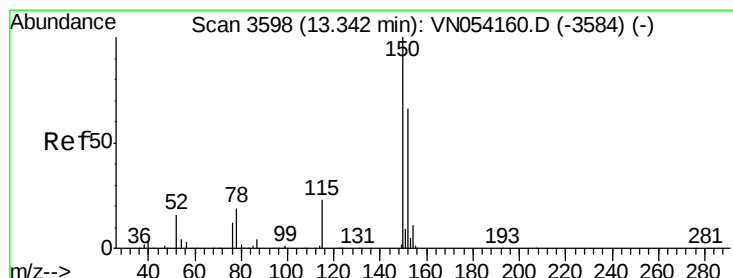
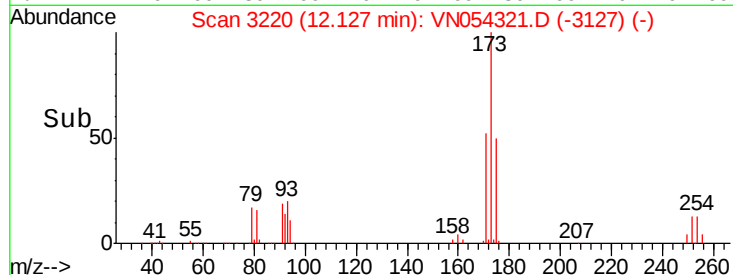
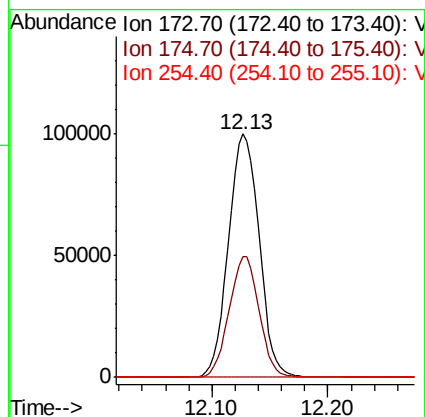
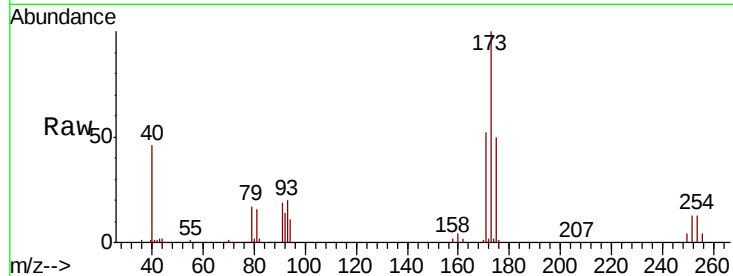
173 100

175 48.4 24.4 73.2

254 0.0 0.1 0.1#

Manual Integrations
APPROVED

MMDadoda
3/16/2019 11:09:23 AM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN054321.D

Acq: 15 Mar 2019 20:33

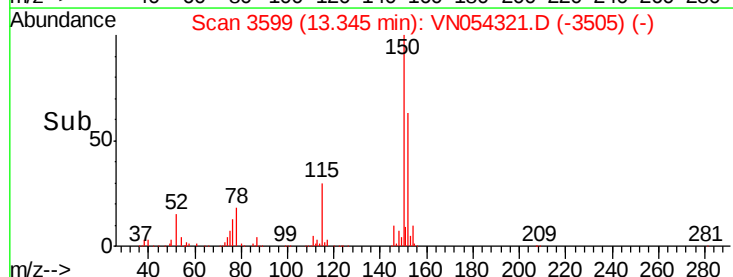
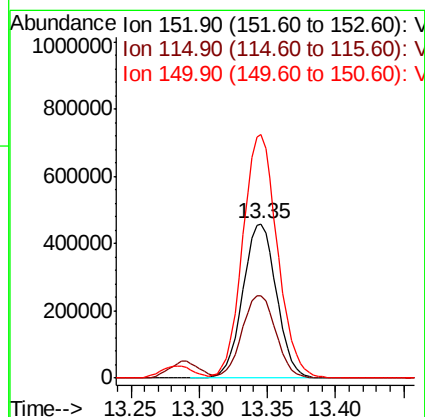
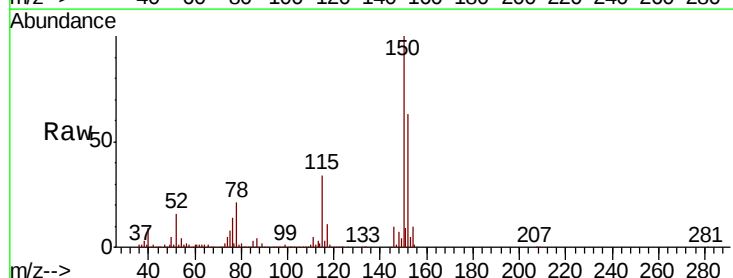
Tgt Ion:152 Resp: 783337

Ion Ratio Lower Upper

152 100

115 54.0 27.2 81.6

150 163.1 0.0 349.2





#73

Isopropylbenzene

Concen: 21.376 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN054321.D

Acq: 15 Mar 2019 20:33

Instrument :

MSVOA_N

ClientSampleId :

VN0315WBSD01

Tgt Ion: 105 Resp: 1339684

Ion Ratio Lower Upper

105 100

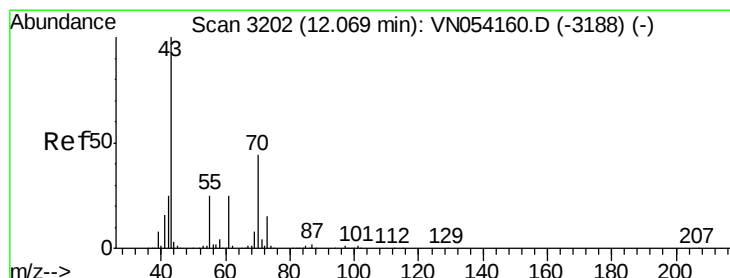
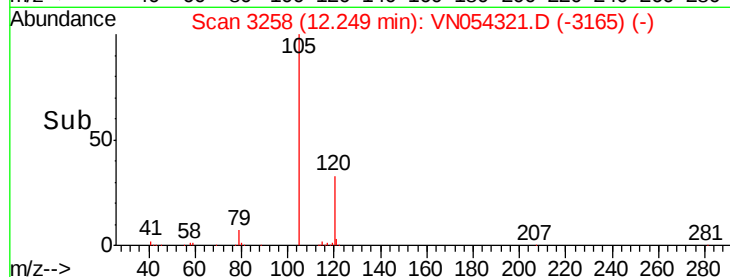
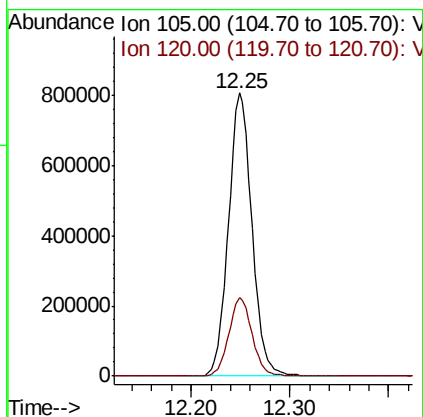
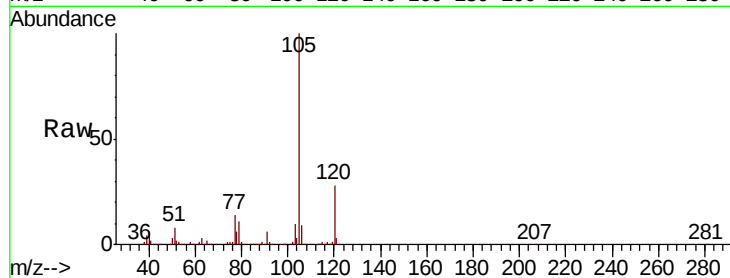
120 27.6 13.8 41.3

Manual Integrations

APPROVED

MMDadoda

3/16/2019 11:09:23 AM



#74

N-ethyl acetate

Concen: 21.714 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN054321.D

Acq: 15 Mar 2019 20:33

Tgt Ion: 43 Resp: 302065

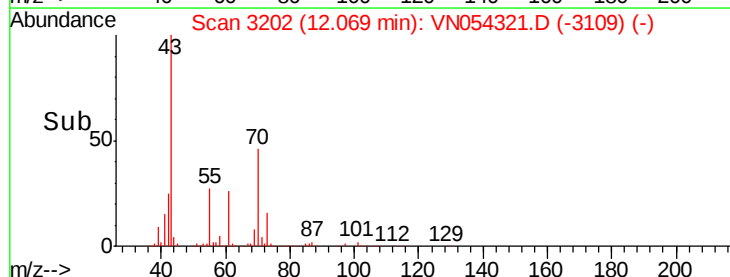
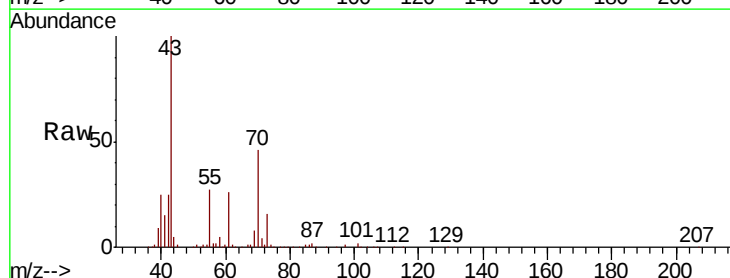
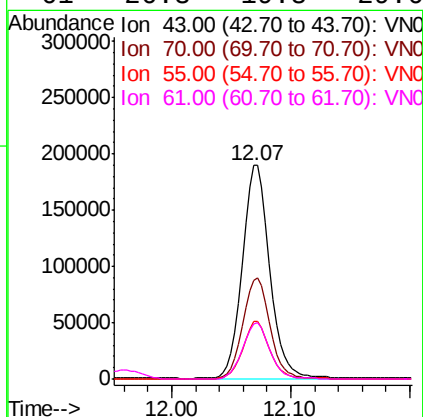
Ion Ratio Lower Upper

43 100

70 47.2 35.4 53.0

55 26.7 19.8 29.6

61 26.3 19.8 29.6





#75

1,1,2,2-Tetrachloroethane

Concen: 24.159 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN054321.D

Acq: 15 Mar 2019 20:33

Instrument :

MSVOA_N

ClientSampleID :

VN0315WBSD01

Tgt Ion: 83 Resp: 322588

Ion Ratio Lower Upper

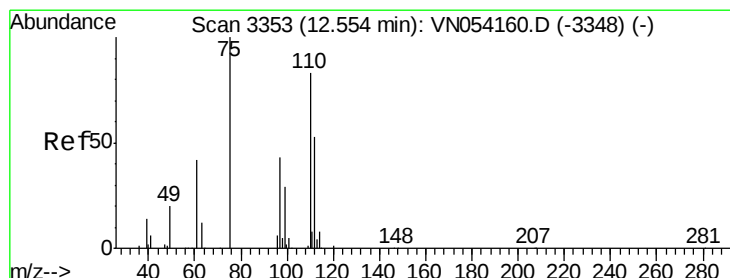
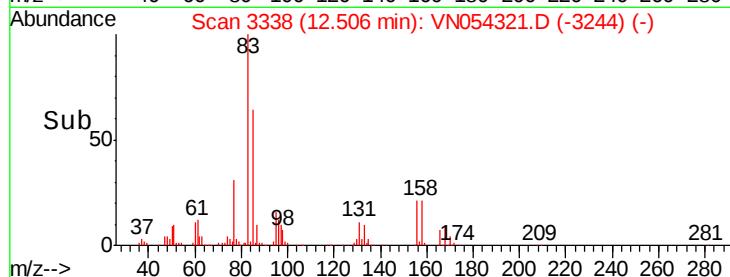
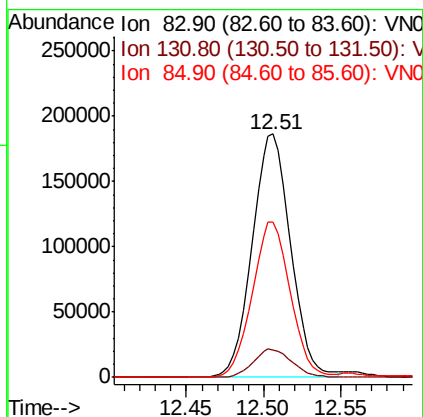
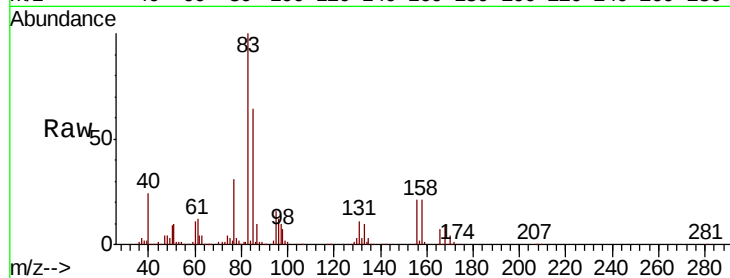
83 100

131 11.7 5.8 17.4

85 63.3 32.2 96.6

Manual Integrations
APPROVED

MMDadoda
3/16/2019 11:09:23 AM



#76

1,2,3-Trichloropropane

Concen: 20.974 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VN054321.D

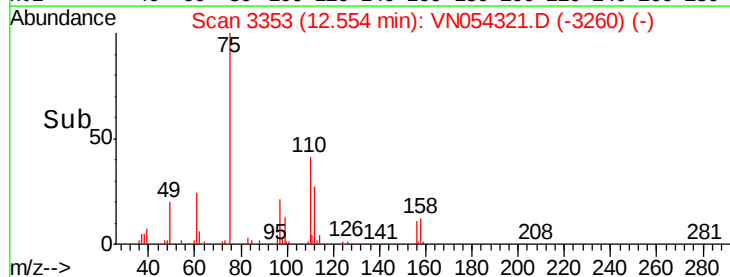
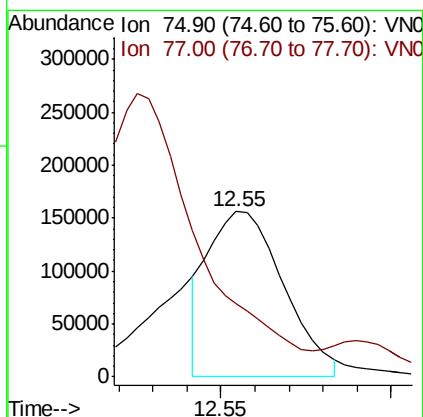
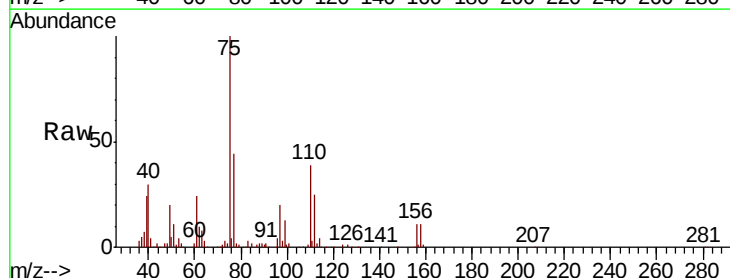
Acq: 15 Mar 2019 20:33

Tgt Ion: 75 Resp: 241610

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0





#77

Bromobenzene

Concen: 21.716 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN054321.D

Acq: 15 Mar 2019 20:33

Instrument :

MSVOA_N

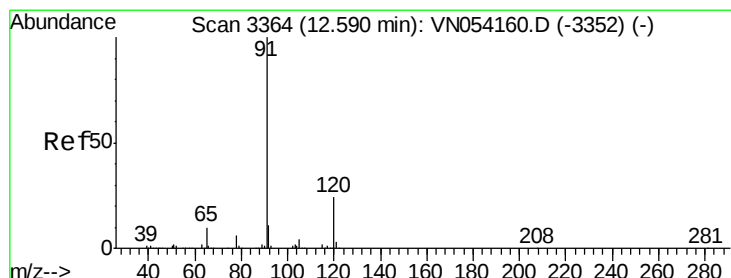
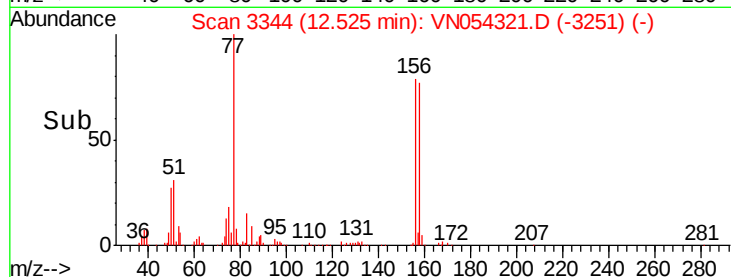
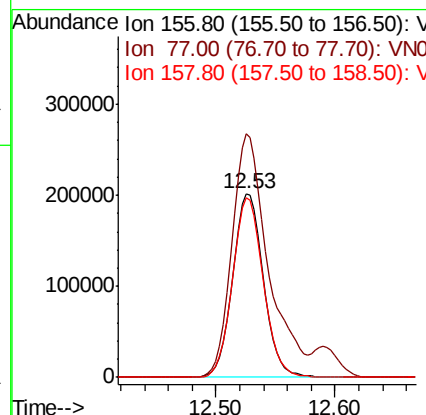
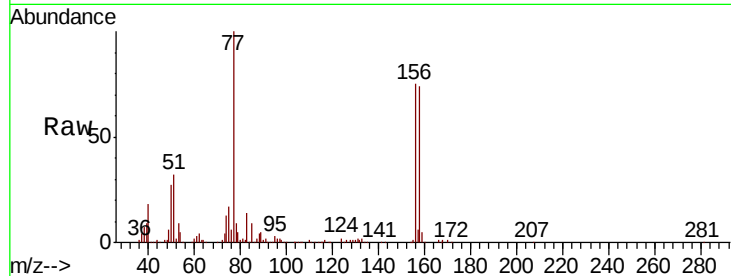
ClientSampleId :

VN0315WBSD01

Tgt Ion	Ratio	Lower	Upper
156	100		
77	157.0	81.5	244.4
158	98.1	49.0	147.2

Manual Integrations
APPROVED

MMDadoda
3/16/2019 11:09:23 AM



#78

n-propylbenzene

Concen: 20.385 ug/l

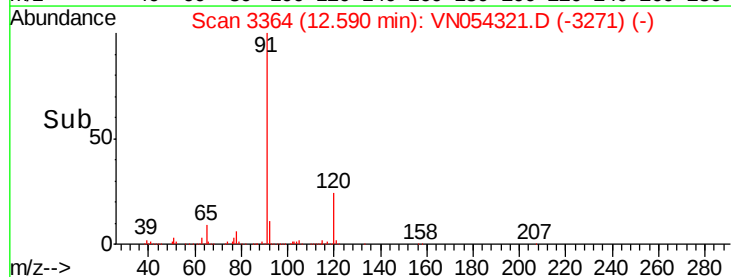
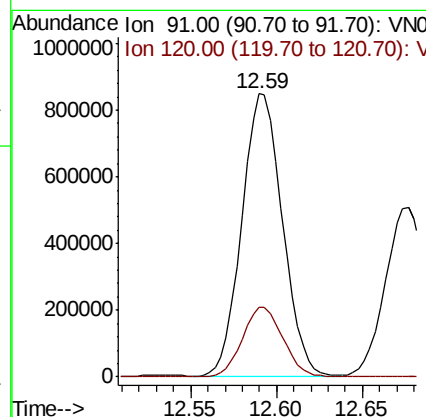
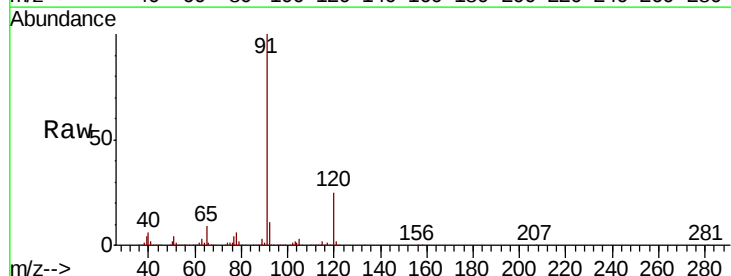
RT: 12.59 min Scan# 3364

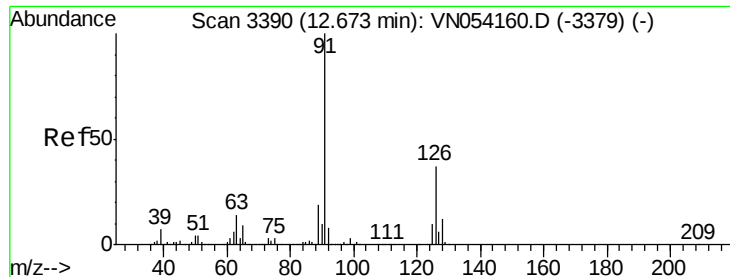
Delta R.T. 0.00 min

Lab File: VN054321.D

Acq: 15 Mar 2019 20:33

Tgt Ion	Ratio	Lower	Upper
91	100		
120	24.7	12.3	36.9





#79

2-Chlorotoluene

Concen: 21.292 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN054321.D

Acq: 15 Mar 2019 20:33

Instrument :

MSVOA_N

ClientSampled :

VN0315WBSD01

Tgt Ion: 91 Resp: 870603

Ion Ratio Lower Upper

91 100

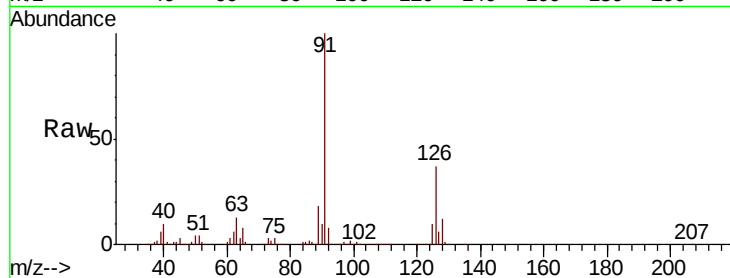
126 37.5 18.7 56.1

Manual Integrations

APPROVED

MMDadoda

3/16/2019 11:09:23 AM



Abundance Ion 91.00 (90.70 to 91.70): VN054160.D (-3379) (-)

Ion 125.90 (125.60 to 126.60): VN054160.D (-3379) (-)

600000

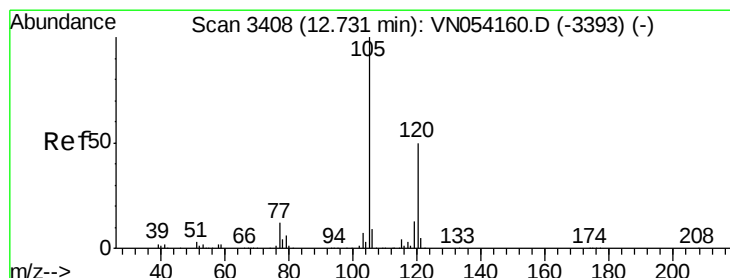
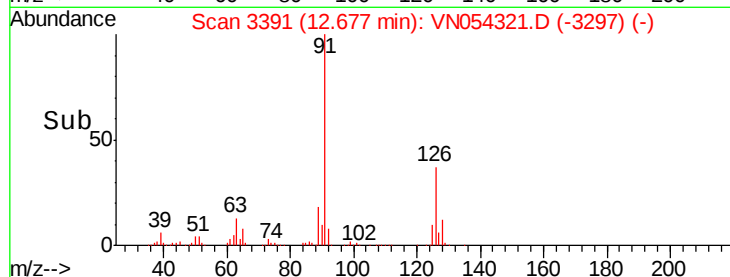
400000

200000

0

12.65 12.68 12.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 20.500 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN054321.D

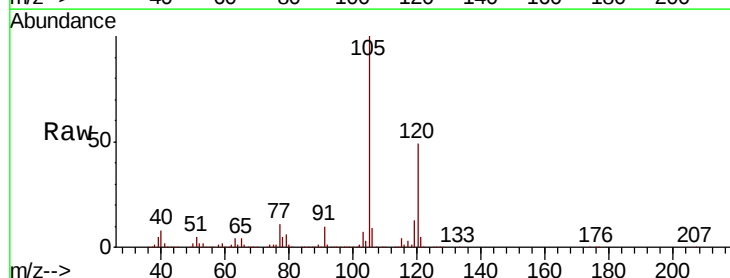
Acq: 15 Mar 2019 20:33

Tgt Ion: 105 Resp: 1068650

Ion Ratio Lower Upper

105 100

120 49.7 25.0 75.0



Abundance Ion 105.00 (104.70 to 105.70): VN054160.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN054160.D (-3393) (-)

600000

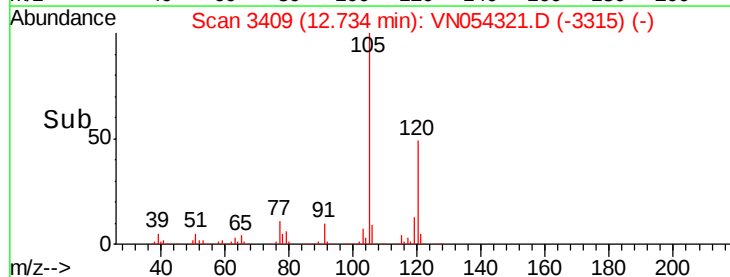
400000

200000

0

12.70 12.73 12.80

Time-->





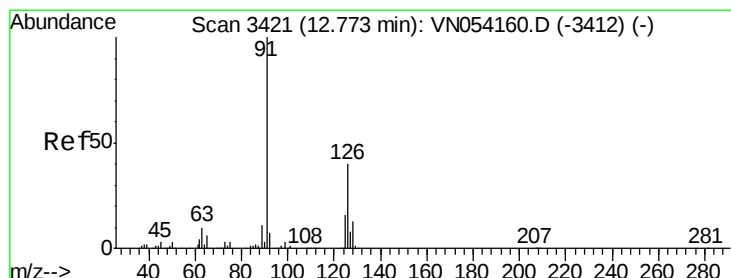
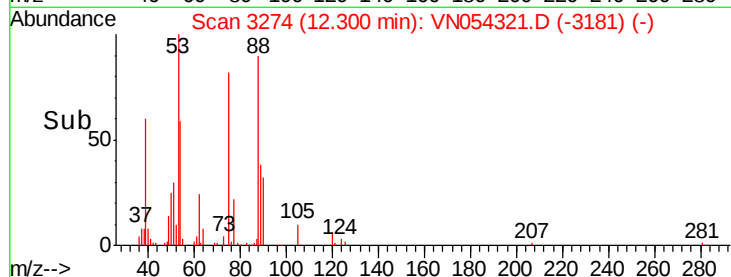
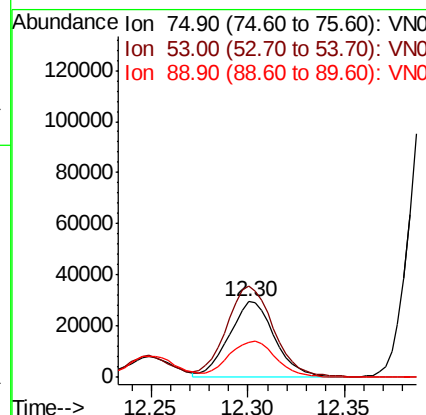
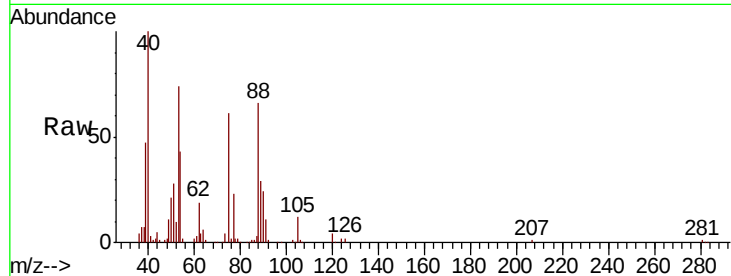
#81
trans-1,4-Dichloro-2-butene
Concen: 14.241 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN054321.D
Acq: 15 Mar 2019 20:33

Instrument :
MSVOA_N
ClientSampleId :
VN0315WBSD01

Tgt Ion: 75 Resp: 47990
Ion Ratio Lower Upper
75 100
53 125.2 76.2 114.2#
89 51.1 39.2 58.8

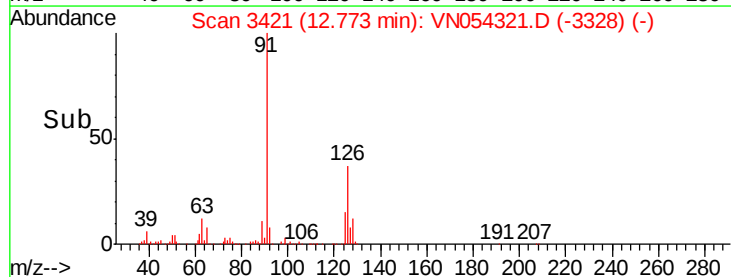
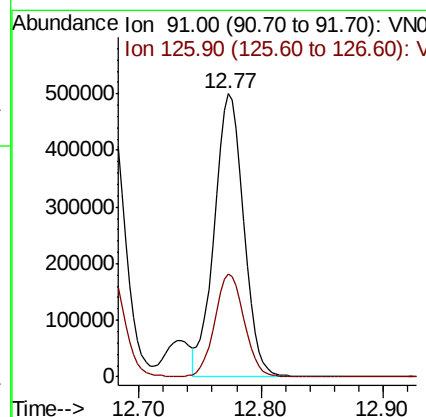
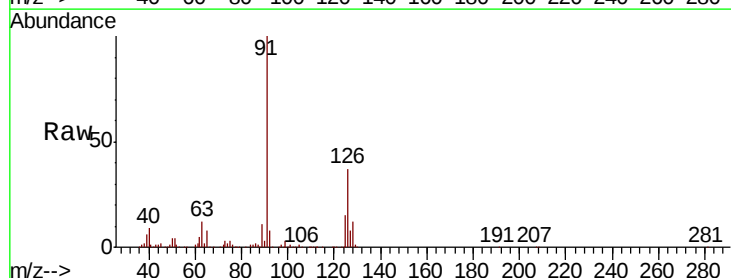
Manual Integrations
APPROVED

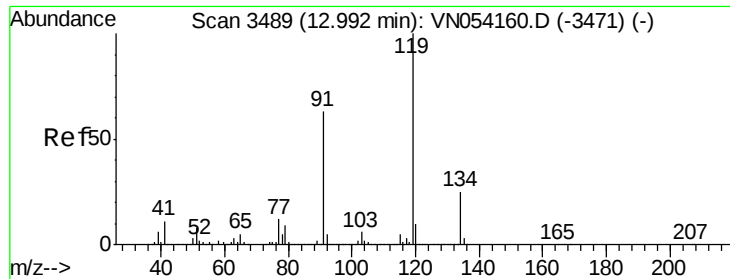
MMDadoda
3/16/2019 11:09:23 AM



#82
4-Chlorotoluene
Concen: 20.658 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN054321.D
Acq: 15 Mar 2019 20:33

Tgt Ion: 91 Resp: 843408
Ion Ratio Lower Upper
91 100
126 36.5 18.1 54.1





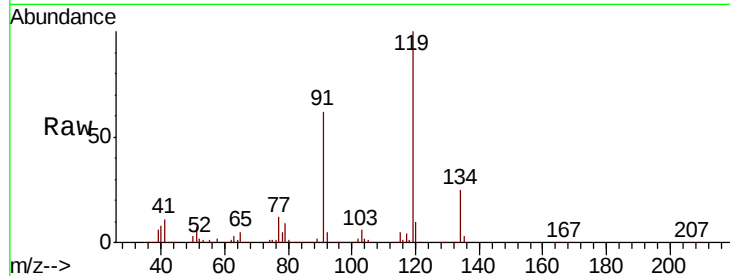
#83
 tert-Butylbenzene
 Concen: 20.323 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN054321.D
 Acq: 15 Mar 2019 20:33

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0315WBSD01

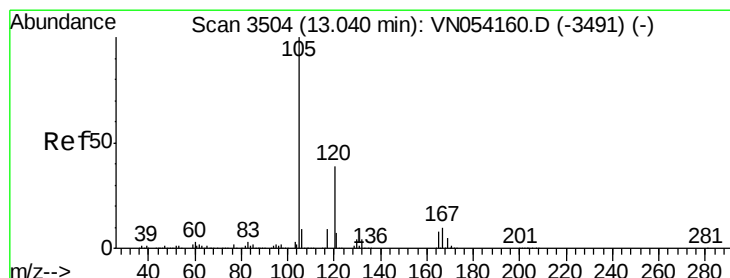
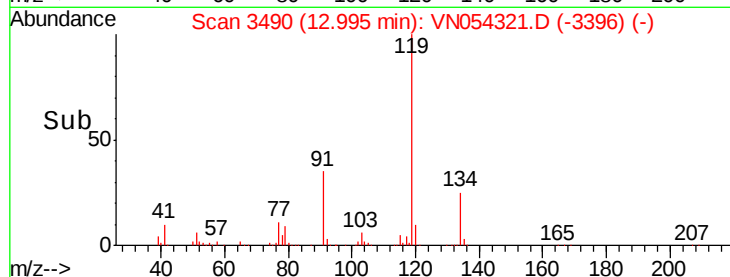
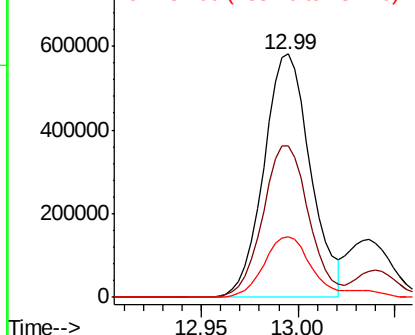
Tgt Ion	Ratio	Lower	Upper
119	100		
91	61.9	30.9	92.8
134	25.0	13.2	39.6

Manual Integrations
 APPROVED

MMDadoda
 3/16/2019 11:09:23 AM

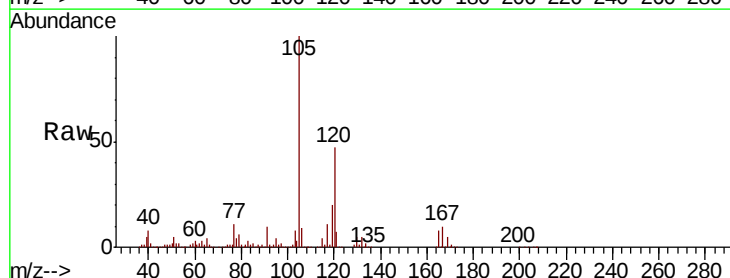


Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 91.00 (90.70 to 91.70): V
 Ion 134.00 (133.70 to 134.70): V

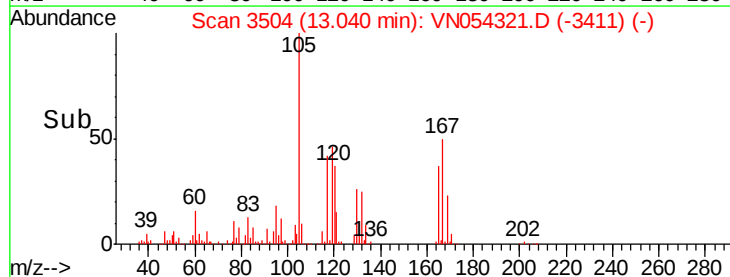
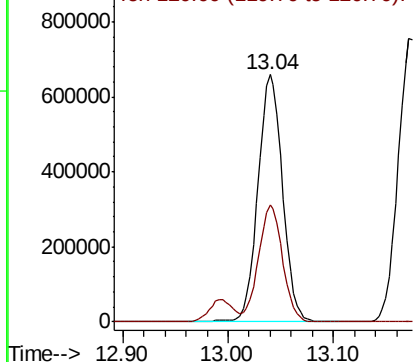


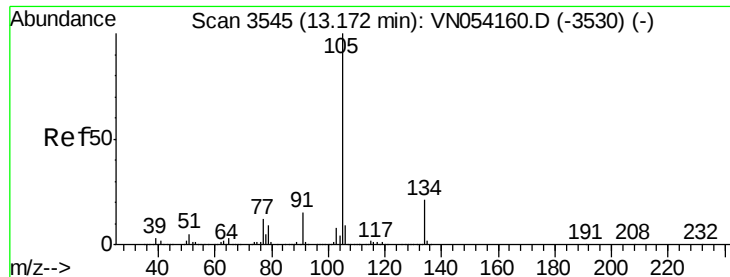
#84
 1,2,4-Trimethylbenzene
 Concen: 21.003 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN054321.D
 Acq: 15 Mar 2019 20:33

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.4	23.4	70.3



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





#85

sec-Butylbenzene

Concen: 19.484 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN054321.D

Acq: 15 Mar 2019 20:33

Instrument :

MSVOA_N

ClientSampleId :

VN0315WBSD01

Tgt Ion:105 Resp: 1212396

Ion Ratio Lower Upper

105 100

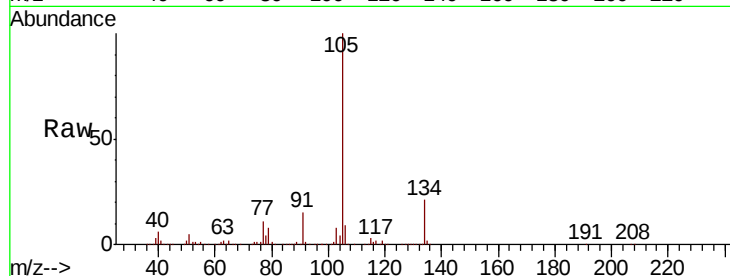
134 21.5 10.7 32.1

Manual Integrations

APPROVED

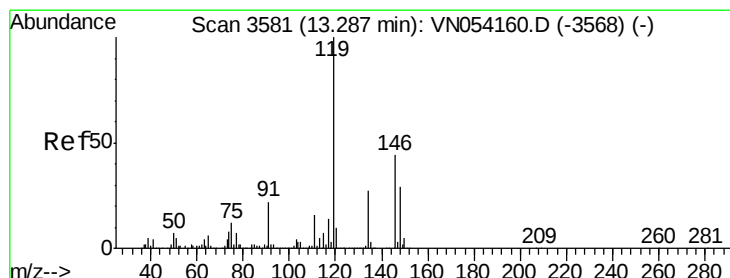
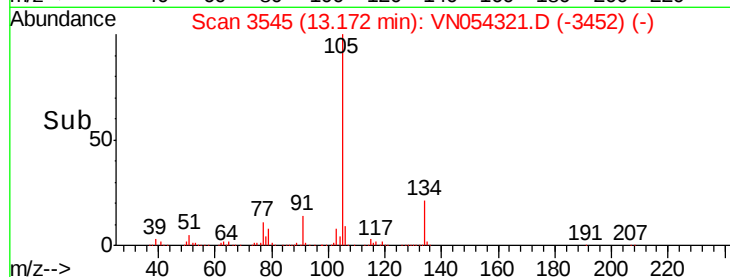
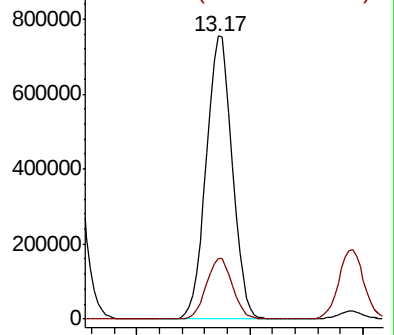
MMDadoda

3/16/2019 11:09:23 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 19.060 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN054321.D

Acq: 15 Mar 2019 20:33

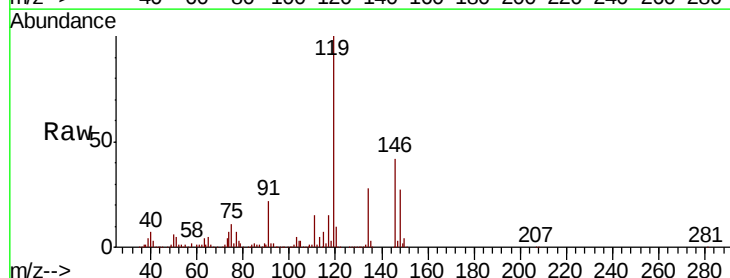
Tgt Ion:119 Resp: 1040507

Ion Ratio Lower Upper

119 100

134 27.6 13.6 40.8

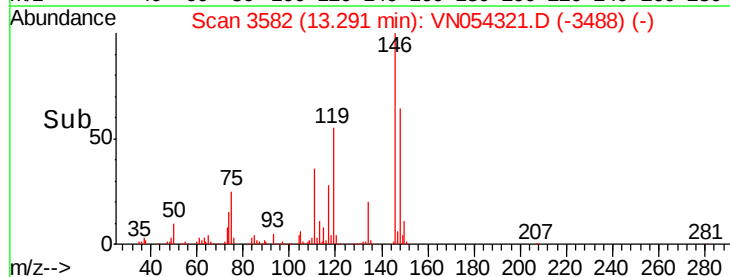
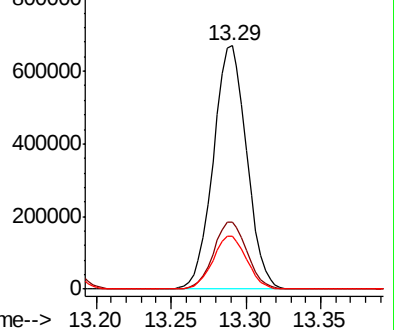
91 21.8 11.1 33.3

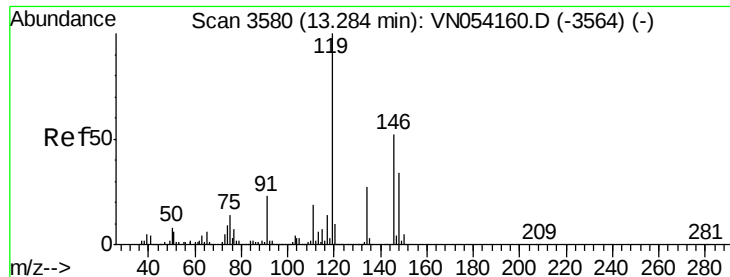


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





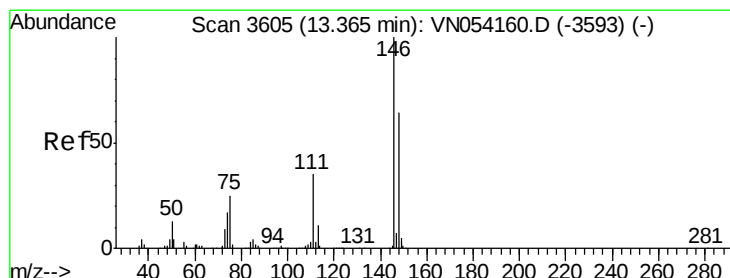
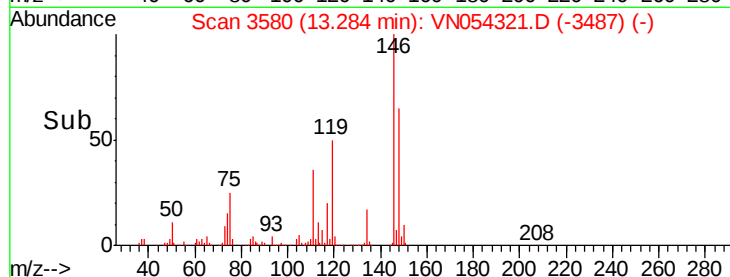
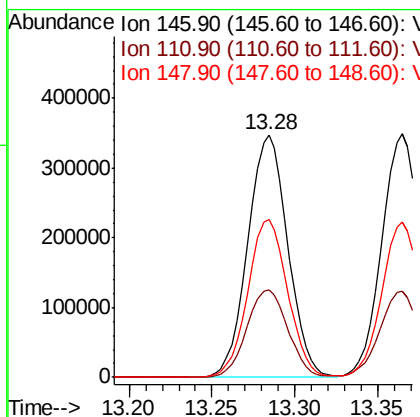
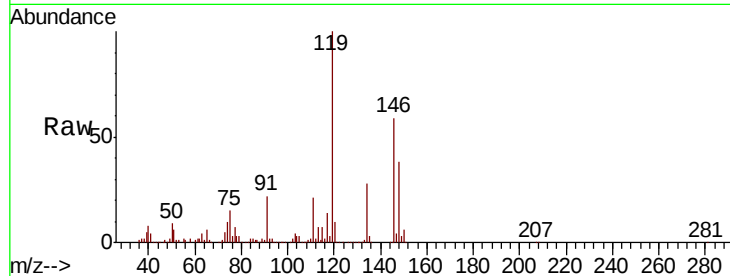
#87
 1,3-Dichlorobenzene
 Concen: 20.846 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN054321.D
 Acq: 15 Mar 2019 20:33

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0315WBSD01

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	582523		
111	37.1	18.8	56.3	
148	65.0	32.2	96.6	

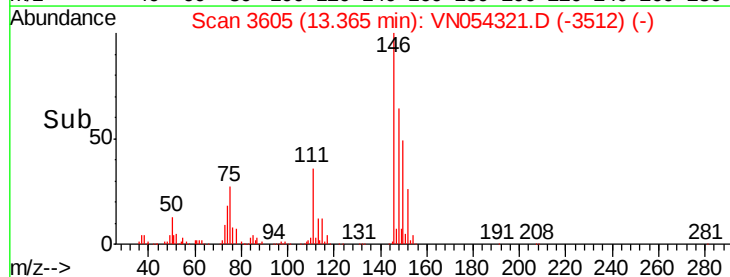
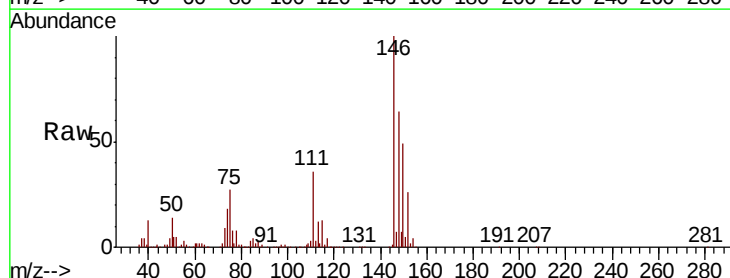
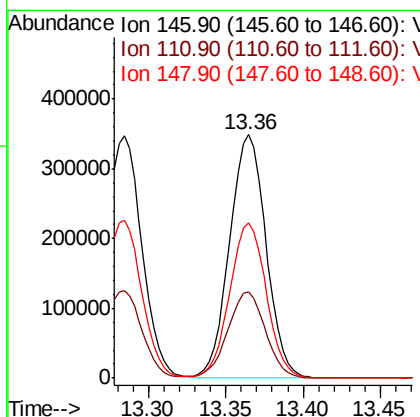
Manual Integrations
 APPROVED

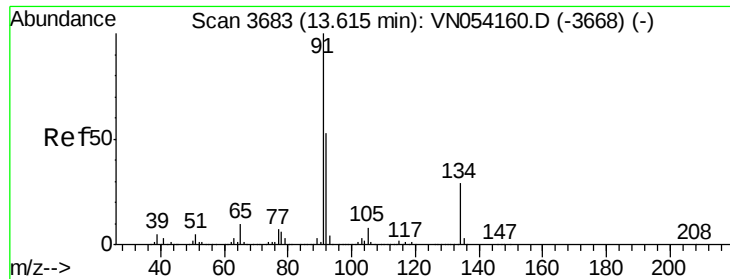
MMDadoda
 3/16/2019 11:09:23 AM



#88
 1,4-Dichlorobenzene
 Concen: 20.768 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN054321.D
 Acq: 15 Mar 2019 20:33

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	570114		
111	36.7	18.1	54.1	
148	63.9	32.0	96.0	





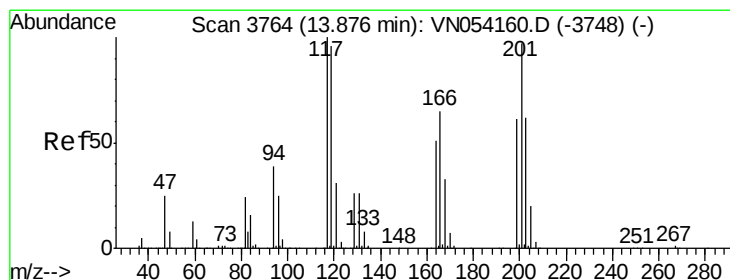
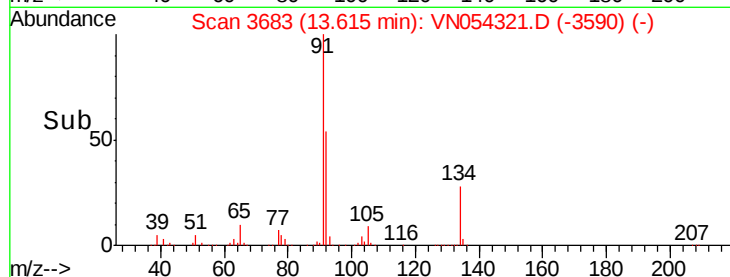
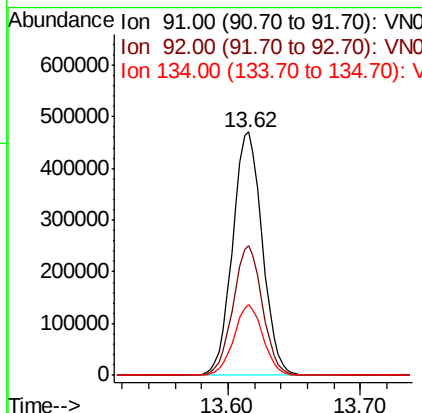
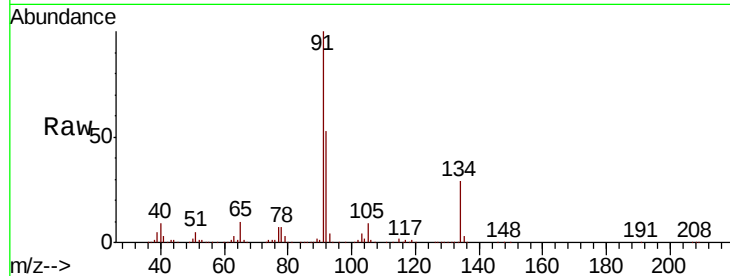
#89
n-Butylbenzene
Concen: 17.616 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN054321.D
Acq: 15 Mar 2019 20:33

Instrument :
MSVOA_N
ClientSampleId :
VN0315WBSD01

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.5	26.2	78.6
134	28.5	14.3	42.9

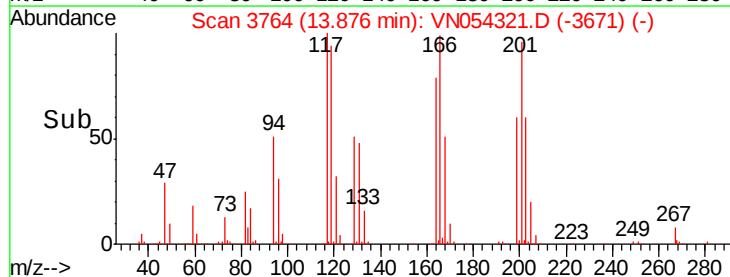
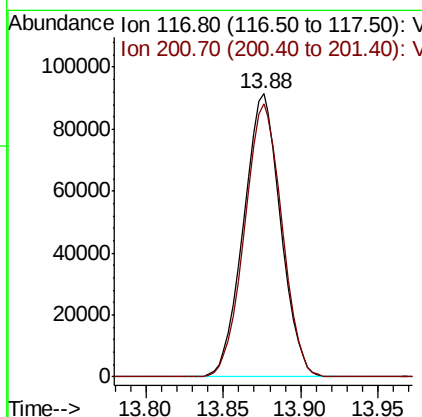
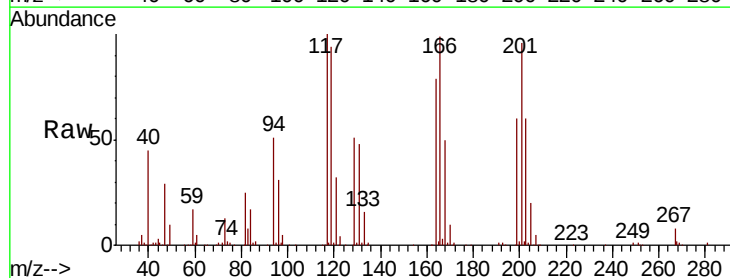
Manual Integrations
APPROVED

MMDadoda
3/16/2019 11:09:23 AM



#90
Hexachloroethane
Concen: 16.911 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN054321.D
Acq: 15 Mar 2019 20:33

Tgt Ion	Ratio	Lower	Upper
117	100		
201	97.0	48.1	144.4





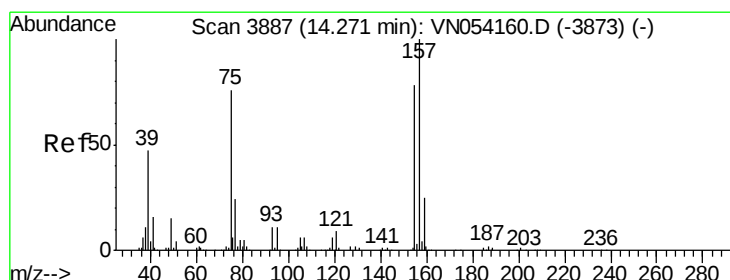
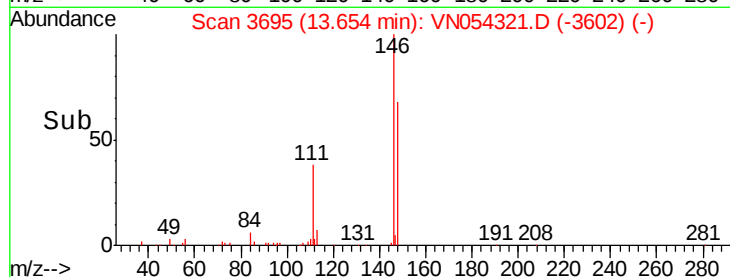
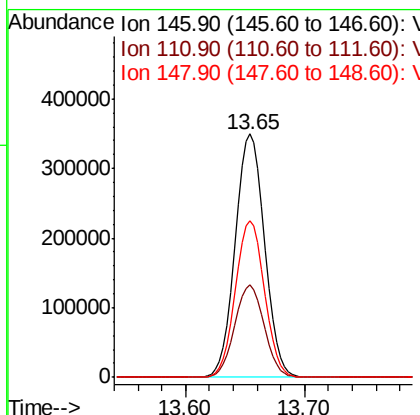
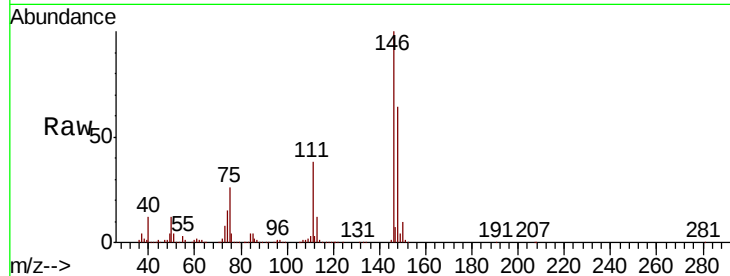
#91
 1,2-Dichlorobenzene
 Concen: 21.874 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN054321.D
 Acq: 15 Mar 2019 20:33

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0315WBSD01

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	597545		
111	38.2	19.1	57.3	
148	63.9	32.4	97.0	

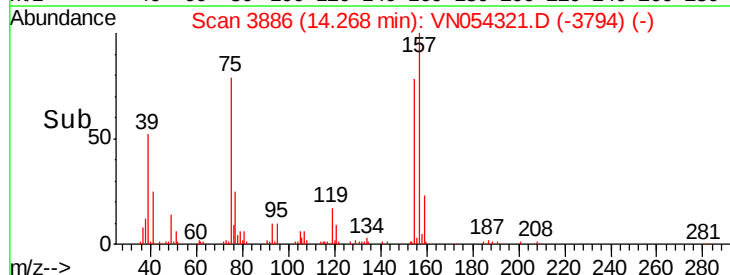
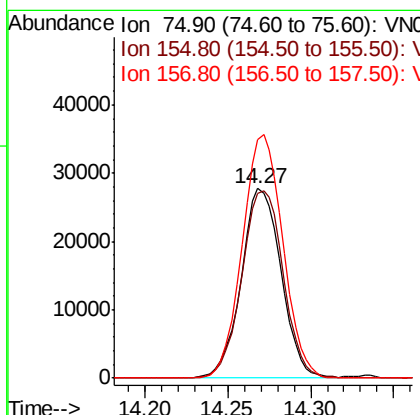
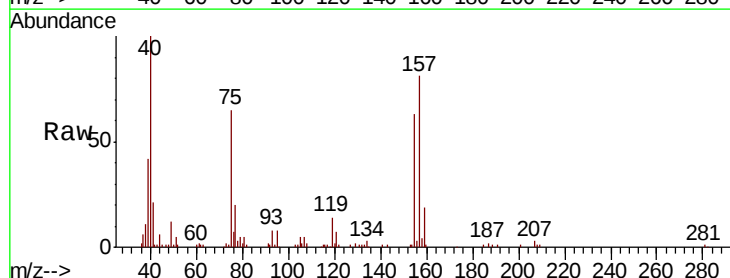
Manual Integrations
 APPROVED

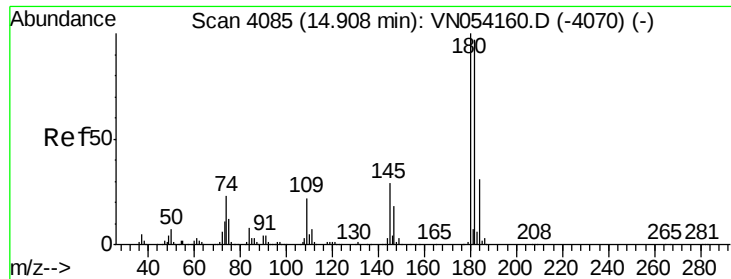
MMDadoda
 3/16/2019 11:09:23 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 22.488 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN054321.D
 Acq: 15 Mar 2019 20:33

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	46465		
155	102.5	50.1	150.3	
157	130.1	63.1	189.3	





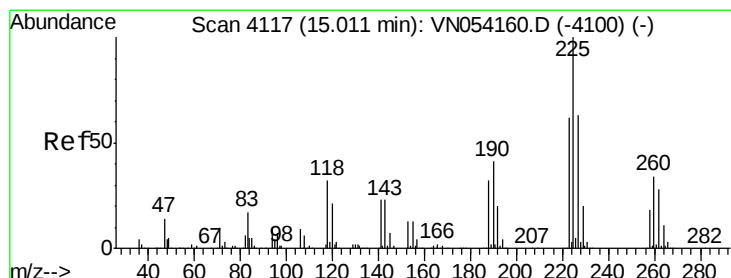
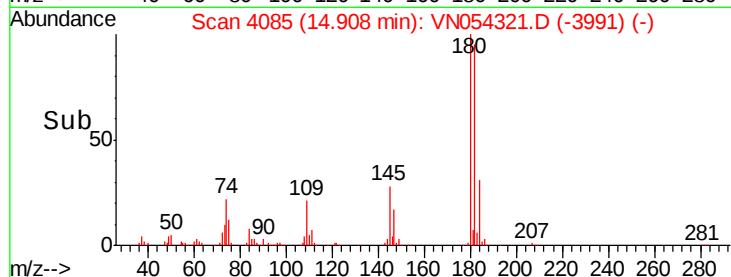
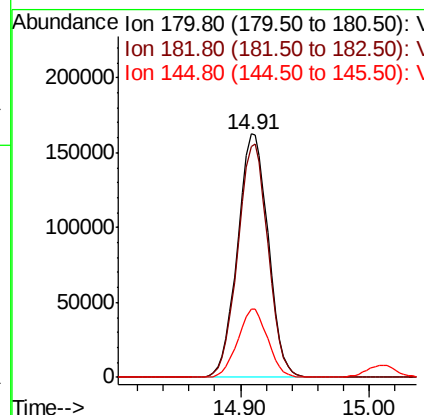
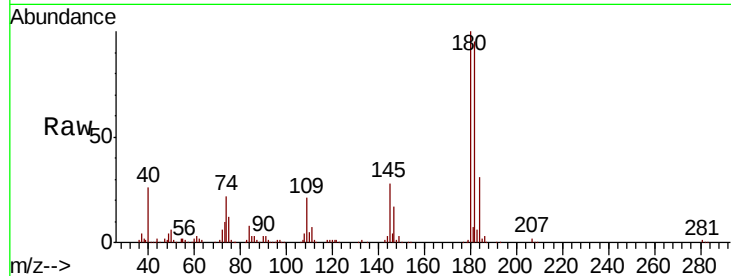
#93
 1,2,4-Trichlorobenzene
 Concen: 17.960 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN054321.D
 Acq: 15 Mar 2019 20:33

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0315WBSD01

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	268198		
182	94.7	48.0	144.2	
145	27.4	14.2	42.8	

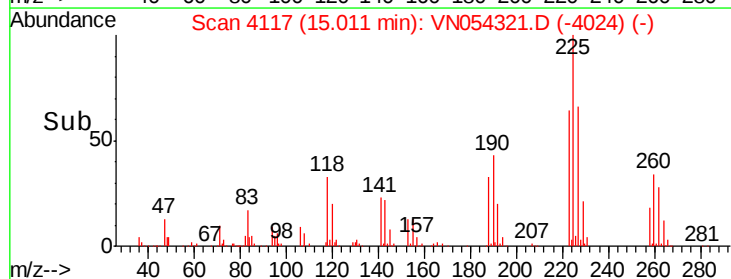
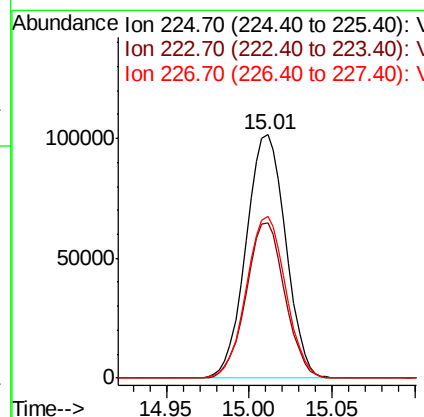
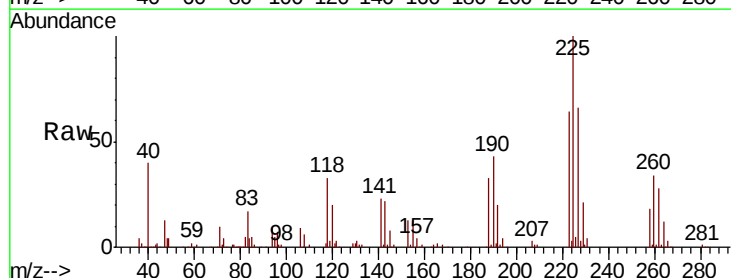
Manual Integrations
 APPROVED

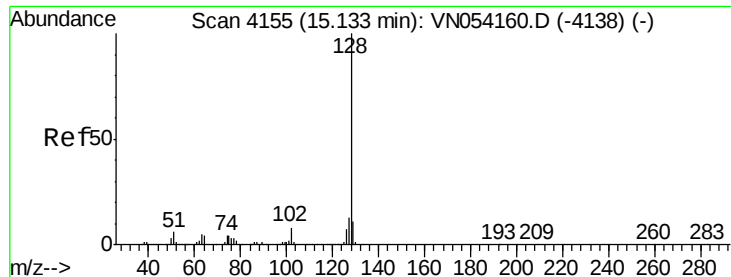
MMDadoda
 3/16/2019 11:09:23 AM



#94
 Hexachlorobutadiene
 Concen: 16.233 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN054321.D
 Acq: 15 Mar 2019 20:33

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	168913		
223	62.2	31.1	93.5	
227	66.0	31.9	95.9	





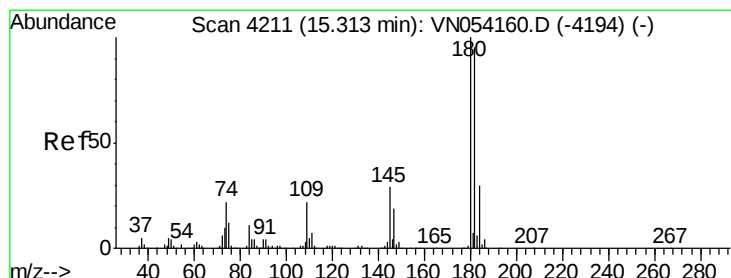
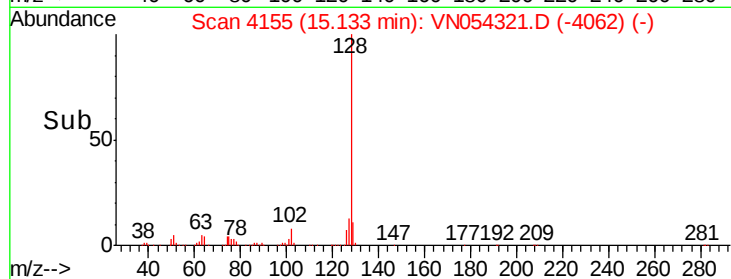
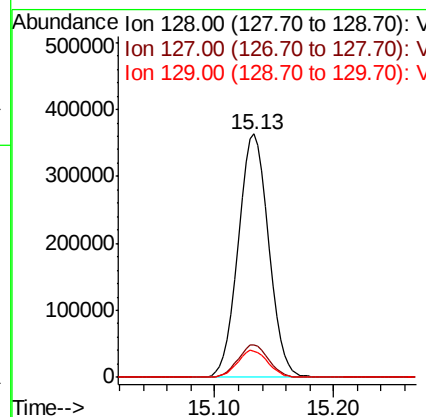
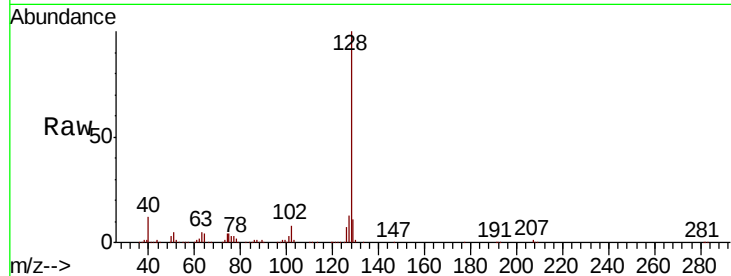
#95
Naphthalene
Concen: 20.927 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN054321.D
Acq: 15 Mar 2019 20:33

Instrument :
MSVOA_N
ClientSampleId :
VN0315WBSD01

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.1	15.1
129	11.0	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
3/16/2019 11:09:23 AM



#96
1,2,3-Trichlorobenzene
Concen: 19.286 ug/l
RT: 15.32 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN054321.D
Acq: 15 Mar 2019 20:33

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.3	47.5	142.6
145	29.5	14.8	44.3

