

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090619\
 Data File : VN057704.D
 Acq On : 5 Sep 2019 18:32
 Operator : JC/SP
 Sample : VSTDIC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

MMDadoda
 9/9/2019 1:10:27 PM

Quant Time: Sep 06 03:40:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N090619W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 06 02:20:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	202372	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	333955	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	308987	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	166073	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	89855	19.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	39.46%	
35) Dibromofluoromethane	7.58	113	55309	18.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	36.60%	
50) Toluene-d8	10.08	98	206058	18.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	36.62%	
62) 4-Bromofluorobenzene	12.40	95	82384	19.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	38.54%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.83	85	70971	22.285	ug/l	90
3) Chloromethane	2.04	50	92305	28.053	ug/l	99
4) Vinyl Chloride	2.17	62	58668	21.733	ug/l	98
5) Bromomethane	2.54	94	25409	16.752	ug/l	95
6) Chloroethane	2.68	64	35103	19.365	ug/l	94
7) Trichlorofluoromethane	3.00	101	97634	19.823	ug/l	95
8) Diethyl Ether	3.39	74	40898	23.745	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.74	101	60378	22.067	ug/l	99
10) Methyl Iodide	3.93	142	50955	16.132	ug/l	97
11) Tert butyl alcohol	4.76	59	58092	113.693	ug/l #	80
12) 1,1-Dichloroethene	3.72	96	52352	22.076	ug/l	88
13) Acrolein	3.59	56	26326	98.703	ug/l	90
14) Allyl chloride	4.30	41	120255	22.263	ug/l	99
15) Acrylonitrile	4.96	53	156947	119.672	ug/l	100
16) Acetone	3.79	43	158593	100.843	ug/l	96
17) Carbon Disulfide	4.03	76	121663	21.922	ug/l	100
18) Methyl Acetate	4.30	43	82197	20.019	ug/l	98
19) Methyl tert-butyl Ether	5.02	73	222663	22.482	ug/l	100
20) Methylene Chloride	4.53	84	67213	22.115	ug/l	90
21) trans-1,2-Dichloroethene	5.02	96	56505	22.048	ug/l	96
22) Diisopropyl ether	5.93	45	260482	22.563	ug/l	99
23) Vinyl Acetate	5.87	43	1091557	125.634	ug/l	99
24) 1,1-Dichloroethane	5.83	63	134426	23.022	ug/l	98
25) 2-Butanone	6.82	43	234888	113.012	ug/l	98
26) 2,2-Dichloropropane	6.81	77	113200	21.994	ug/l	100
27) cis-1,2-Dichloroethene	6.81	96	72973	23.668	ug/l	97
28) Bromochloromethane	7.18	49	64727	21.141	ug/l	100
29) Tetrahydrofuran	7.19	42	146747	115.824	ug/l	96
30) Chloroform	7.36	83	139078	22.425	ug/l	98
31) Cyclohexane	7.64	56	117971	22.958	ug/l	94
32) 1,1,1-Trichloroethane	7.55	97	116327	22.606	ug/l	100
36) 1,1-Dichloropropene	7.78	75	96561	23.047	ug/l	96
37) Ethyl Acetate	6.91	43	88798	20.781	ug/l #	96
38) Carbon Tetrachloride	7.76	117	90446	21.162	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090619\
 Data File : VN057704.D
 Acq On : 5 Sep 2019 18:32
 Operator : JC/SP
 Sample : VSTDIC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDIC020

Manual Integrations
 APPROVED

MMDadoda
 9/9/2019 1:10:27 PM

Quant Time: Sep 06 03:40:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N090619W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 06 02:20:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	102978	22.137	ug/l	99
40) Benzene	8.03	78	273504	22.442	ug/l	99
41) Methacrylonitrile	7.16	41	41556m	23.310	ug/l	
42) 1,2-Dichloroethane	8.11	62	124629	22.225	ug/l	100
43) Isopropyl Acetate	8.15	43	182797	23.286	ug/l #	90
44) Trichloroethene	8.82	130	60600	20.773	ug/l	93
45) 1,2-Dichloropropane	9.11	63	77294	22.706	ug/l	100
46) Dibromomethane	9.20	93	50569	22.807	ug/l	97
47) Bromodichloromethane	9.40	83	102713	22.391	ug/l	99
48) Methyl methacrylate	9.19	41	93058	24.554	ug/l	99
49) 1,4-Dioxane	9.19	88	22191	413.537	ug/l	96
51) 4-Methyl-2-Pentanone	9.98	43	527341	121.726	ug/l	99
52) Toluene	10.15	92	163514	21.661	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	102906	21.940	ug/l	96
54) cis-1,3-Dichloropropene	9.83	75	112068	21.901	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	65707	21.849	ug/l	95
56) Ethyl methacrylate	10.43	69	106144	22.963	ug/l	99
57) 1,3-Dichloropropane	10.71	76	119484	22.513	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	261677	159.300	ug/l	99
59) 2-Hexanone	10.75	43	369282	121.598	ug/l	99
60) Dibromochloromethane	10.90	129	61636	20.884	ug/l	96
61) 1,2-Dibromoethane	11.00	107	62749	21.309	ug/l	98
64) Tetrachloroethene	10.63	164	50797	18.997	ug/l	94
65) Chlorobenzene	11.43	112	165885	21.170	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.51	131	59405	20.860	ug/l	99
67) Ethyl Benzene	11.51	91	331676	22.173	ug/l	98
68) m/p-Xylenes	11.62	106	231942	45.011	ug/l	100
69) o-Xylene	11.95	106	113638	22.130	ug/l	99
70) Styrene	11.96	104	192358	23.514	ug/l	99
71) Bromoform	12.13	173	35174	19.756	ug/l #	99
73) Isopropylbenzene	12.25	105	322659	16.198	ug/l	100
74) N-amyl acetate	12.07	43	159686	19.293	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.51	83	99223	18.376	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	78763m	17.269	ug/l	
77) Bromobenzene	12.53	156	69538	16.360	ug/l	98
78) n-propylbenzene	12.59	91	382792	17.616	ug/l	99
79) 2-Chlorotoluene	12.68	91	228962	17.079	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	274212	16.913	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	23866	17.825	ug/l	92
82) 4-Chlorotoluene	12.78	91	233280	18.369	ug/l	100
83) tert-Butylbenzene	13.00	119	229383	16.074	ug/l	100
84) 1,2,4-Trimethylbenzene	13.04	105	274131	18.464	ug/l	99
85) sec-Butylbenzene	13.17	105	315791	17.578	ug/l	100
86) p-Isopropyltoluene	13.29	119	268234	18.104	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	127372	21.771	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	125474	21.061	ug/l	100
89) n-Butylbenzene	13.62	91	258969	20.011	ug/l	99
90) Hexachloroethane	13.88	117	39515	14.988	ug/l	96
91) 1,2-Dichlorobenzene	13.66	146	124822	22.443	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	18700	23.493	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090619\
Data File : VN057704.D
Acq On : 5 Sep 2019 18:32
Operator : JC/SP
Sample : VSTDICC020
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

MMDadoda
9/9/2019 1:10:27 PM

Quant Time: Sep 06 03:40:45 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N090619W.M
Quant Title : SW846 8260
QLast Update : Fri Sep 06 02:20:36 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	73574	36.142	ug/l	97
94) Hexachlorobutadiene	15.01	225	34997	15.544	ug/l	97
95) Naphthalene	15.13	128	209971	39.311	ug/l	100
96) 1,2,3-Trichlorobenzene	15.30	180	71360	37.536	ug/l	100

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

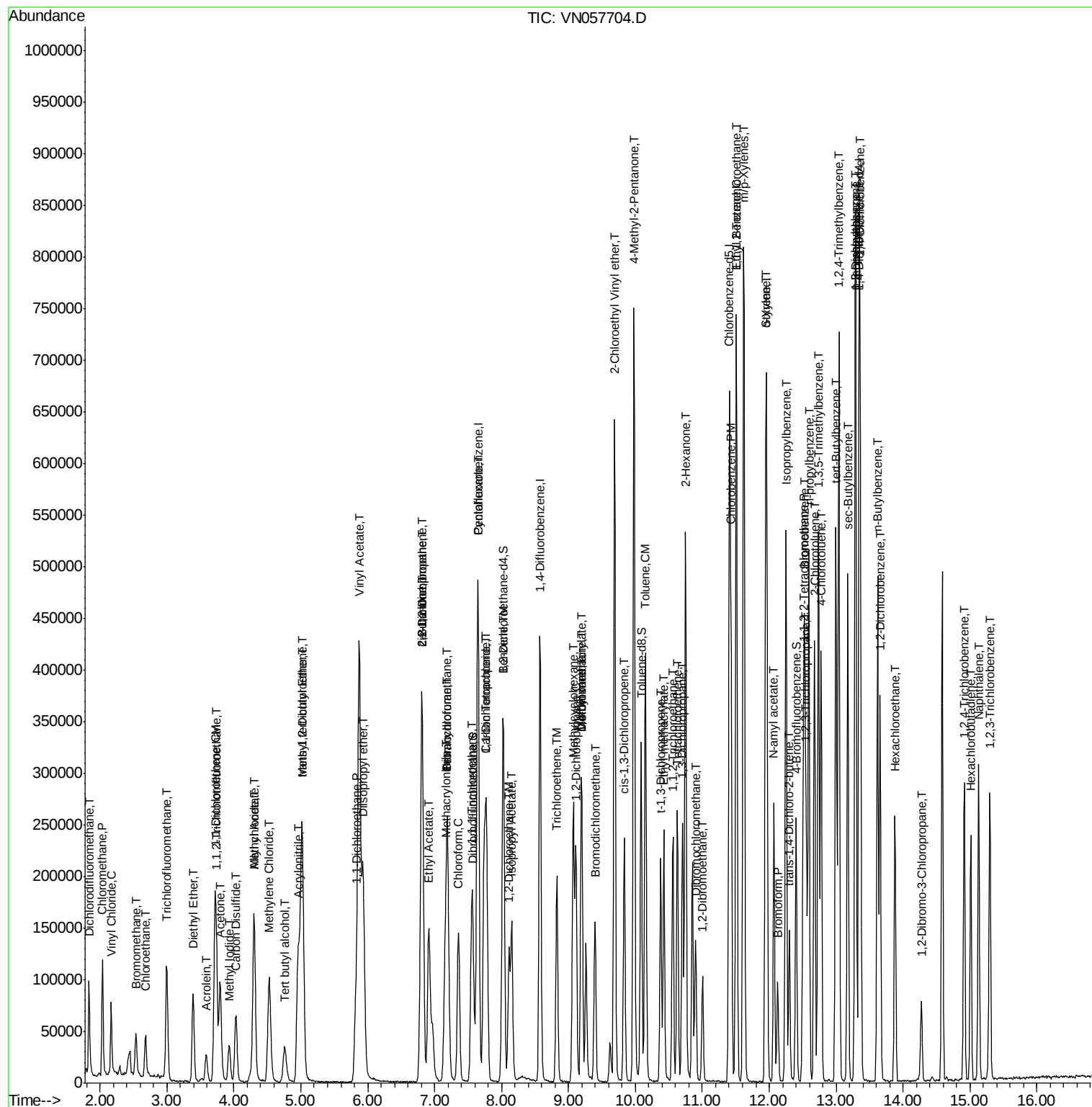
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090619\
Data File : VN057704.D
Acq On : 5 Sep 2019 18:32
Operator : JC/SP
Sample : VSTDIC020
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 5 Sample Multiplier: 1

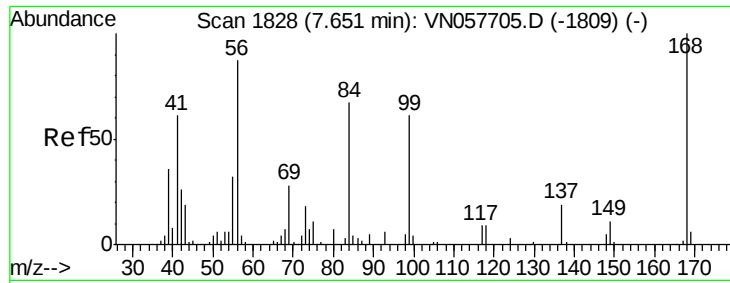
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Manual Integrations
APPROVED

MMDadoda
9/9/2019 1:10:27 PM

Quant Time: Sep 06 03:40:45 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N090619W.M
Quant Title : SW846 8260
QLast Update : Fri Sep 06 02:20:36 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN057704.D

Acq: 5 Sep 2019 18:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:168 Resp: 202372

Ion Ratio Lower Upper

168 100

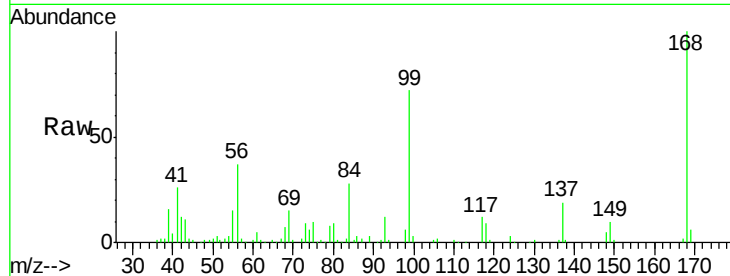
99 71.1 57.4 86.0

Manual Integrations

APPROVED

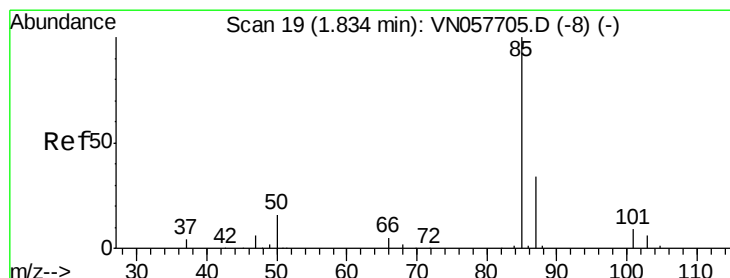
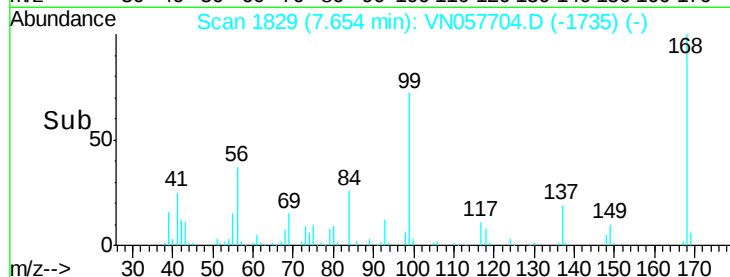
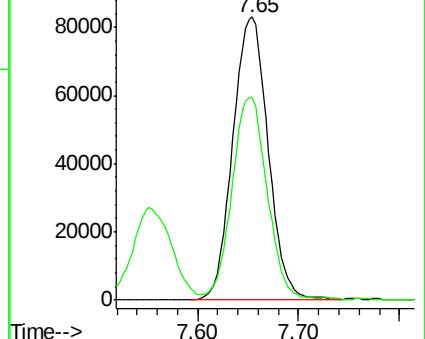
MMDadoda

9/9/2019 1:10:27 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 22.285 ug/l

RT: 1.83 min Scan# 19

Delta R.T. 0.00 min

Lab File: VN057704.D

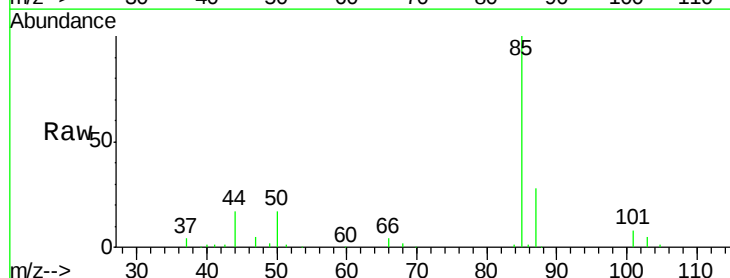
Acq: 5 Sep 2019 18:32

Tgt Ion: 85 Resp: 70971

Ion Ratio Lower Upper

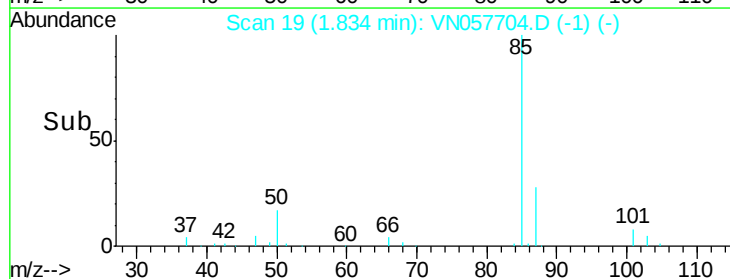
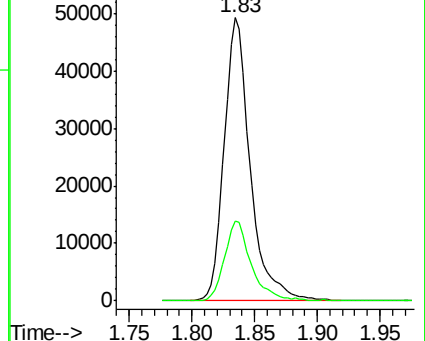
85 100

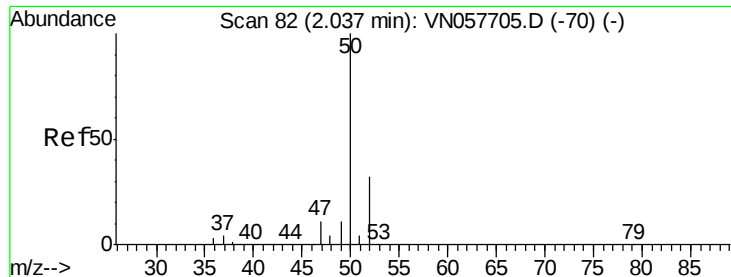
87 28.3 17.0 51.0



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: 28.053 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN057704.D

Acq: 5 Sep 2019 18:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 50 Resp: 92305

Ion Ratio Lower Upper

50 100

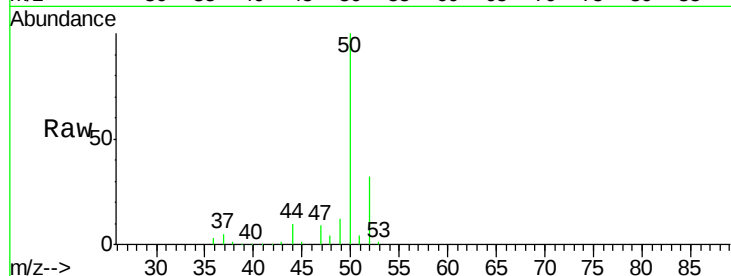
52 32.1 26.0 39.0

Manual Integrations

APPROVED

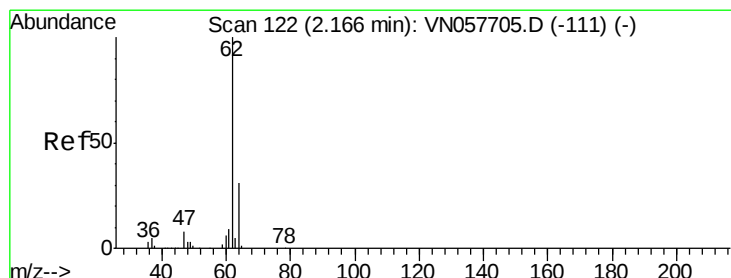
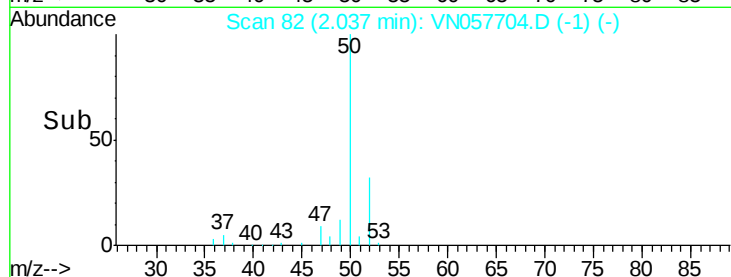
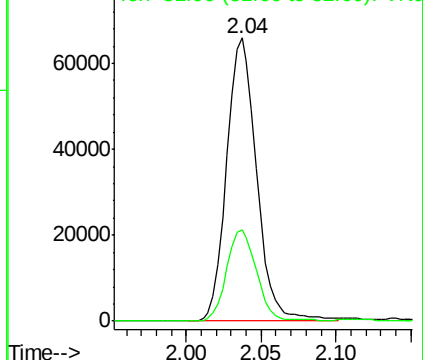
MMDadoda

9/9/2019 1:10:27 PM



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO



#4

Vinyl Chloride

Concen: 21.733 ug/l

RT: 2.17 min Scan# 122

Delta R.T. 0.00 min

Lab File: VN057704.D

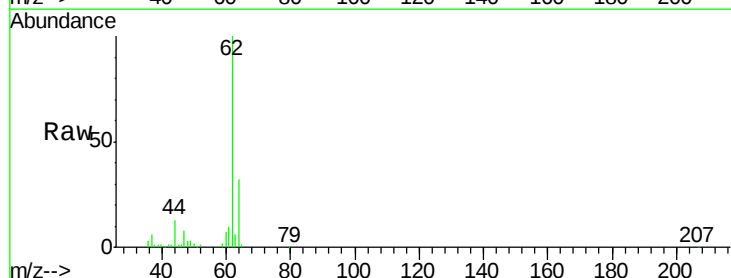
Acq: 5 Sep 2019 18:32

Tgt Ion: 62 Resp: 58668

Ion Ratio Lower Upper

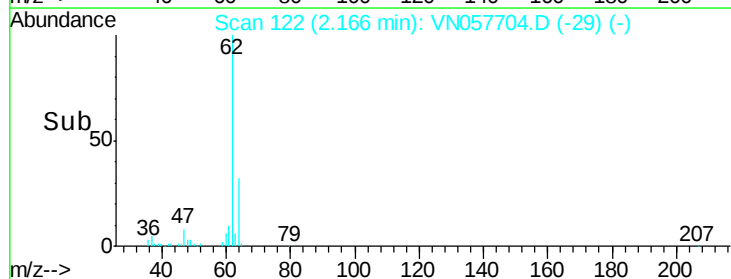
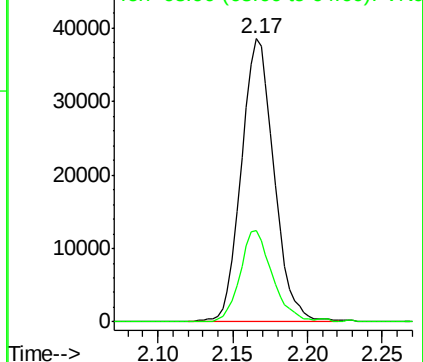
62 100

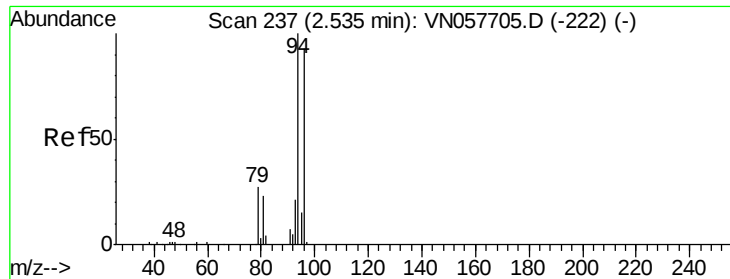
64 32.3 24.9 37.3



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO





#5

Bromomethane

Concen: 16.752 ug/l

RT: 2.54 min Scan# 237

Delta R.T. 0.00 min

Lab File: VN057704.D

Acq: 5 Sep 2019 18:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 94 Resp: 25409

Ion Ratio Lower Upper

94 100

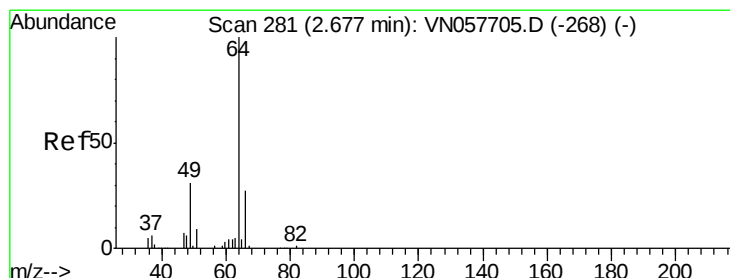
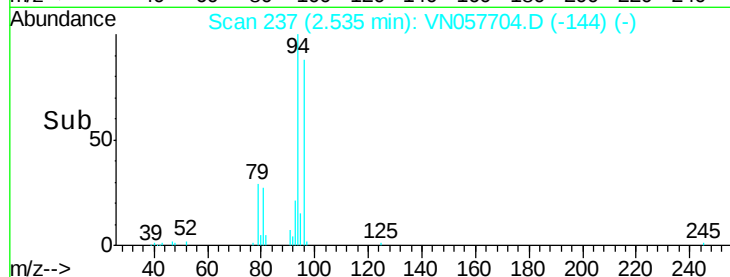
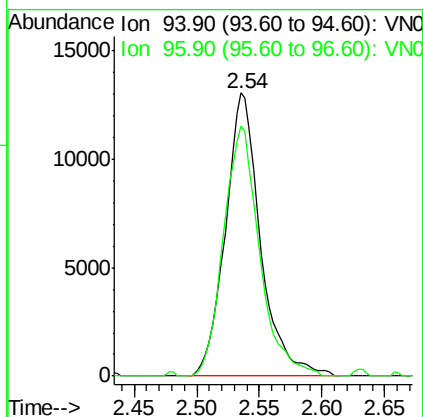
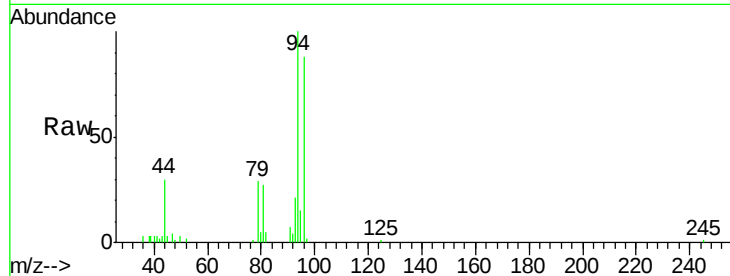
96 88.4 74.8 112.2

Manual Integrations

APPROVED

MMDadoda

9/9/2019 1:10:27 PM



#6

Chloroethane

Concen: 19.365 ug/l

RT: 2.68 min Scan# 282

Delta R.T. 0.00 min

Lab File: VN057704.D

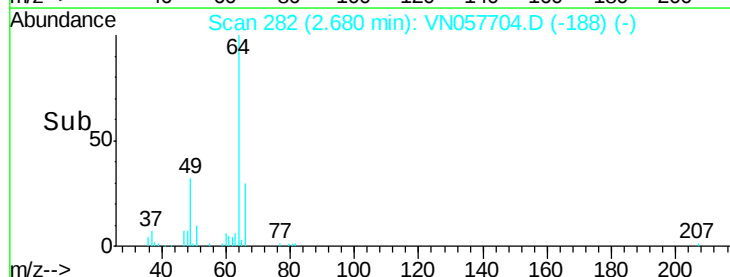
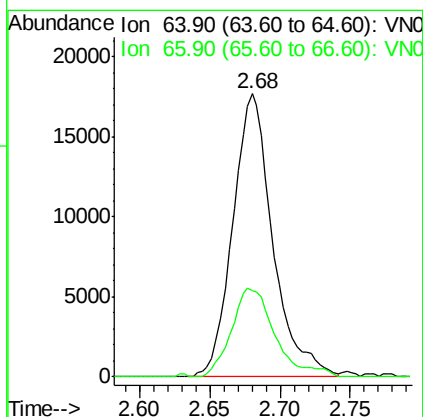
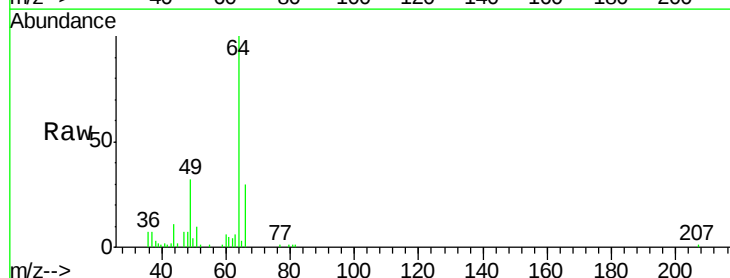
Acq: 5 Sep 2019 18:32

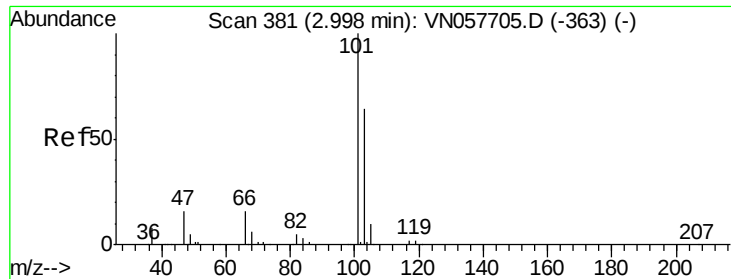
Tgt Ion: 64 Resp: 35103

Ion Ratio Lower Upper

64 100

66 30.4 22.0 33.0





#7

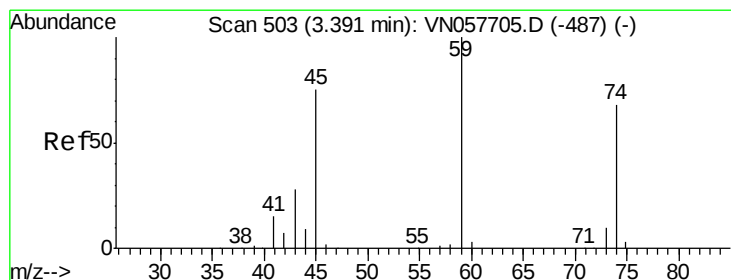
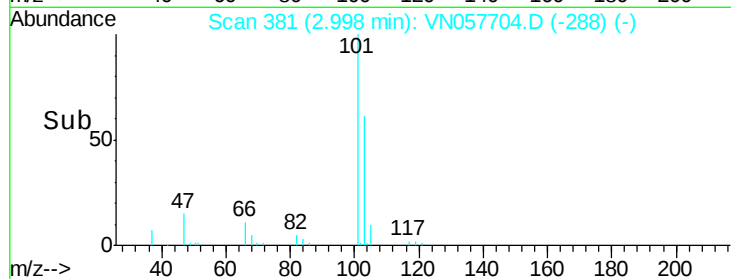
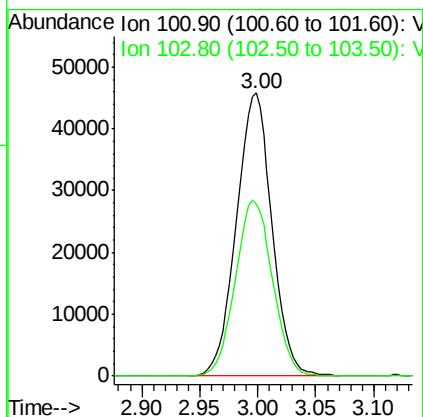
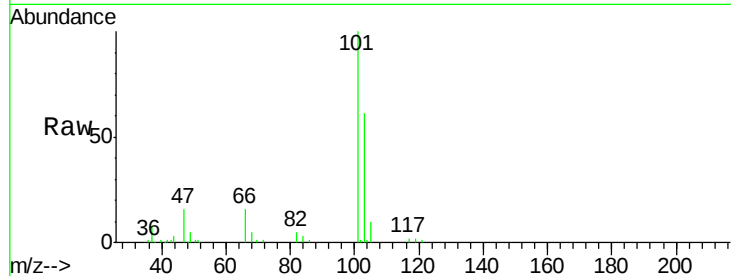
Trichlorofluoromethane
 Concen: 19.823 ug/l
 RT: 3.00 min Scan# 381
 Delta R.T. 0.00 min
 Lab File: VN057704.D
 Acq: 5 Sep 2019 18:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		97634		
103	60.6	51.4	77.0		

Manual Integrations
 APPROVED

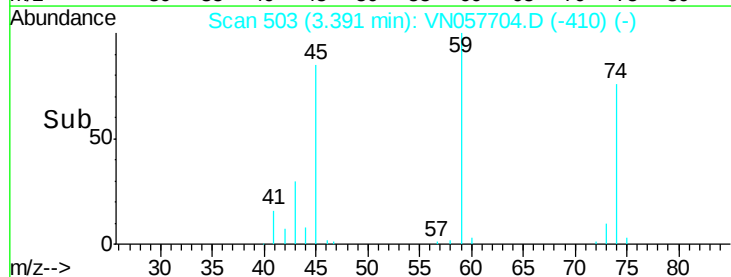
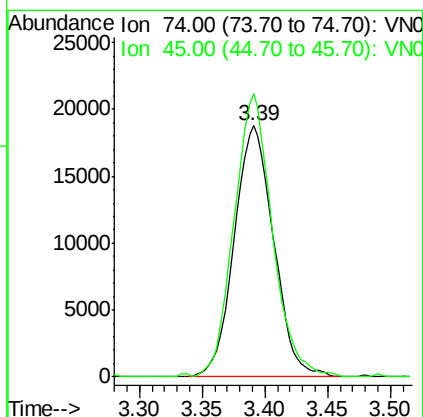
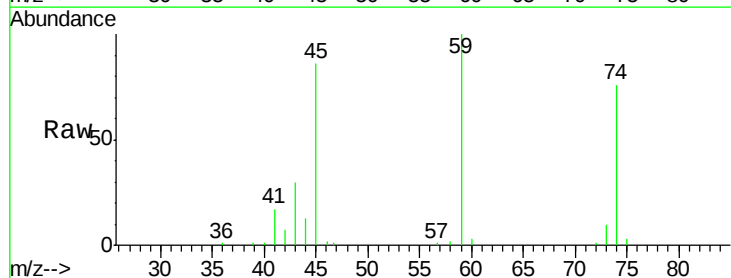
MMDadoda
 9/9/2019 1:10:27 PM

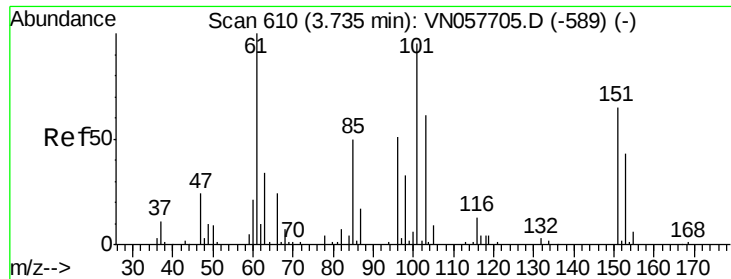


#8

Diethyl Ether
 Concen: 23.745 ug/l
 RT: 3.39 min Scan# 503
 Delta R.T. 0.00 min
 Lab File: VN057704.D
 Acq: 5 Sep 2019 18:32

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
74	100		40898		
45	110.1	55.4	166.0		





#9

1,1,2-Trichlorotrifluoroethane

Concen: 22.067 ug/l

RT: 3.74 min Scan# 613

Delta R.T. 0.01 min

Lab File: VN057704.D

Acq: 5 Sep 2019 18:32

Instrument :

MSVOA_N

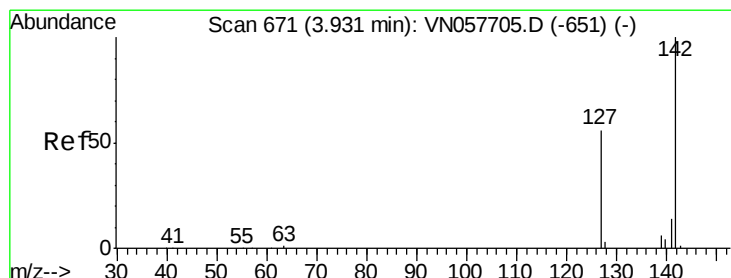
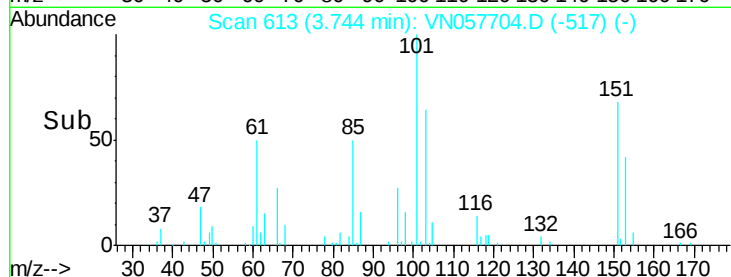
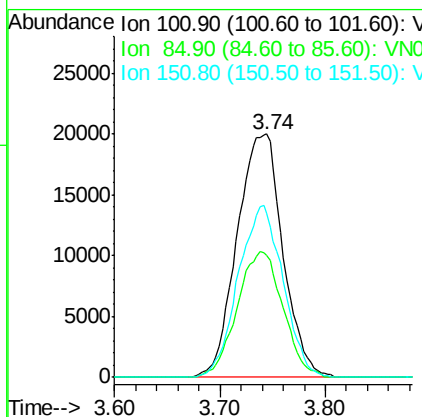
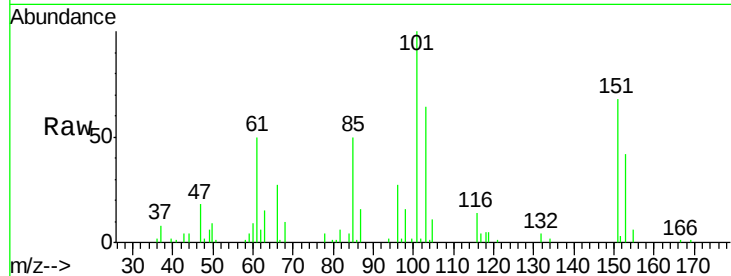
ClientSampled :

VSTDIC020

Tot Ion:	101	Resp:	60378
Ion Ratio	Lower	Upper	
101	100		
85	51.8	42.8	64.2
151	69.1	55.5	83.3

Manual Integrations
APPROVED

MMDadoda
9/9/2019 1:10:27 PM



#10

Methyl Iodide

Concen: 16.132 ug/l

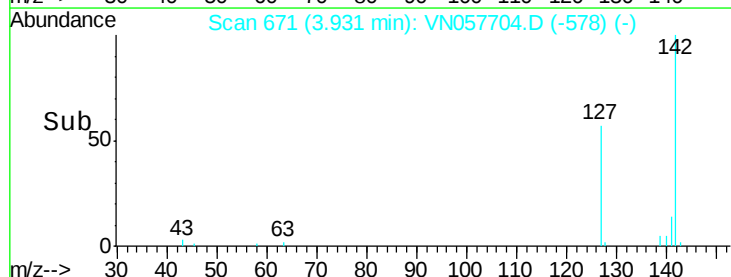
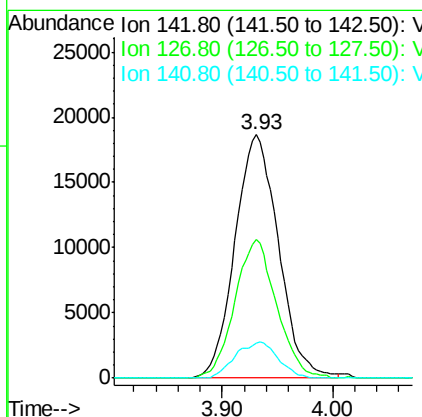
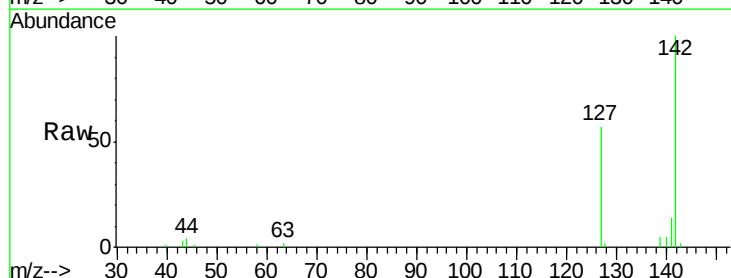
RT: 3.93 min Scan# 671

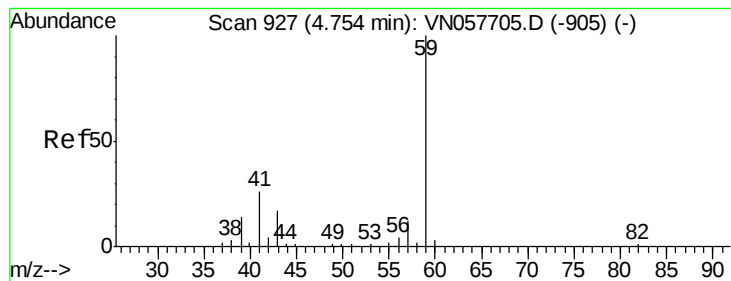
Delta R.T. 0.00 min

Lab File: VN057704.D

Acq: 5 Sep 2019 18:32

Tgt Ion:	142	Resp:	50955
Ion Ratio	Lower	Upper	
142	100		
127	54.7	42.1	63.1
141	14.5	11.0	16.4





#11

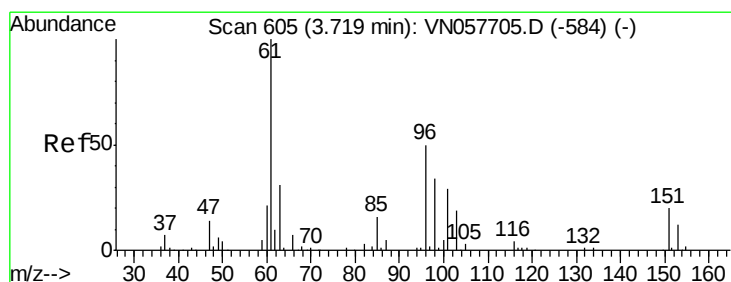
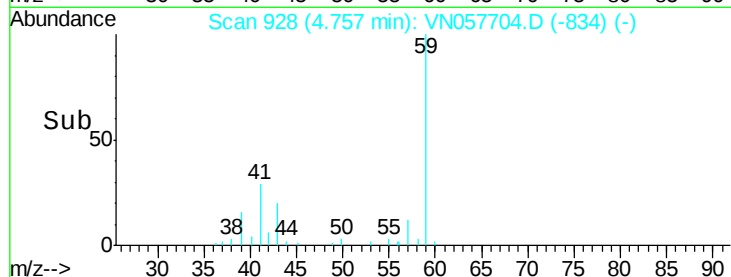
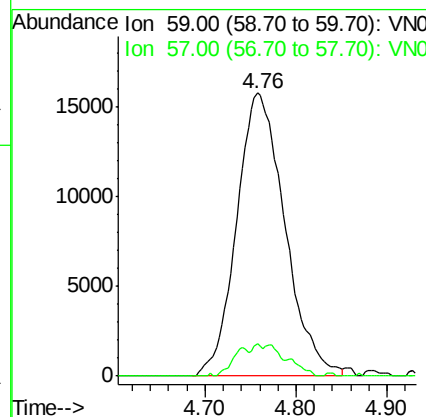
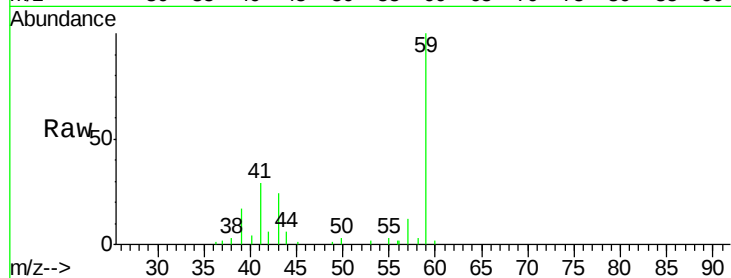
Tert butyl alcohol
 Concen: 113.693 ug/l
 RT: 4.76 min Scan# 928
 Delta R.T. 0.00 min
 Lab File: VN057704.D
 Acq: 5 Sep 2019 18:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
59	100		
57	3.4	8.9	13.3#

Manual Integrations
 APPROVED

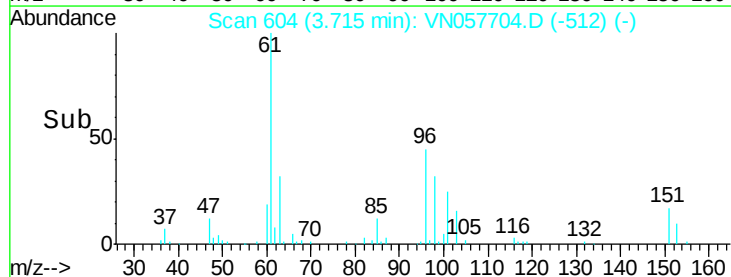
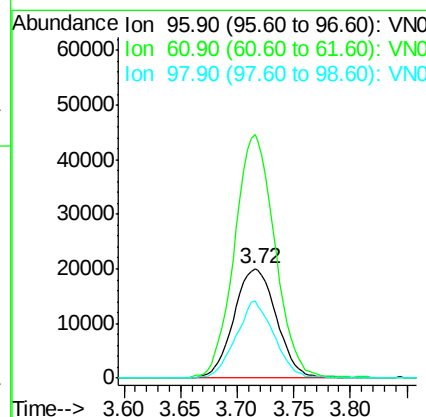
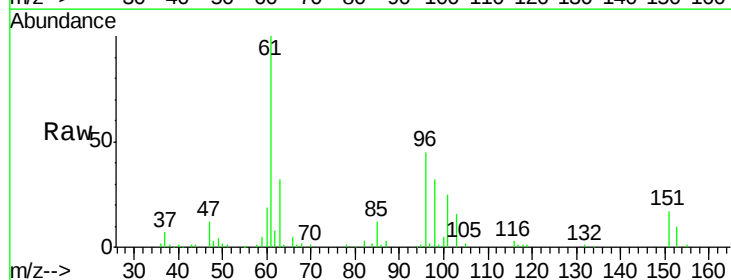
MMDadoda
 9/9/2019 1:10:27 PM

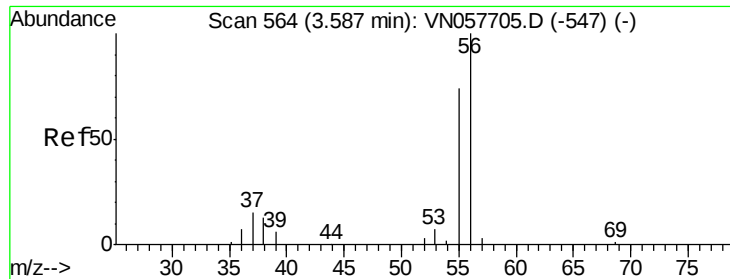


#12

1,1-Dichloroethene
 Concen: 22.076 ug/l
 RT: 3.72 min Scan# 604
 Delta R.T. -0.00 min
 Lab File: VN057704.D
 Acq: 5 Sep 2019 18:32

Tgt Ion	Ratio	Lower	Upper
96	100		
61	220.7	158.7	238.1
98	70.6	53.8	80.8





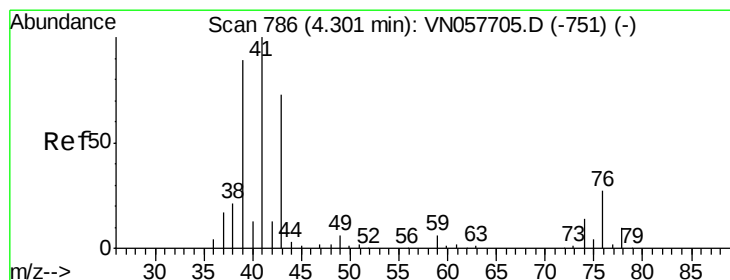
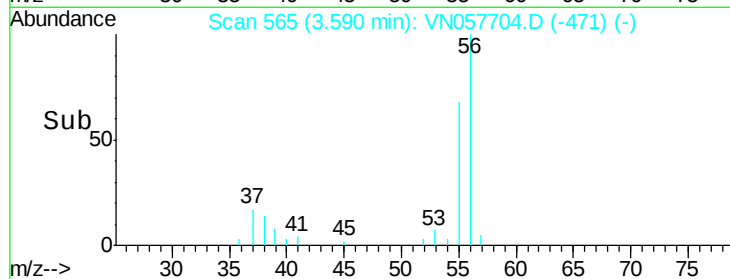
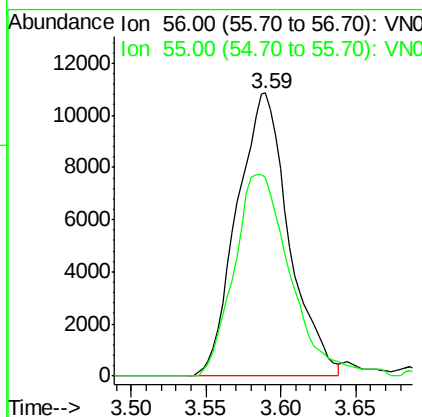
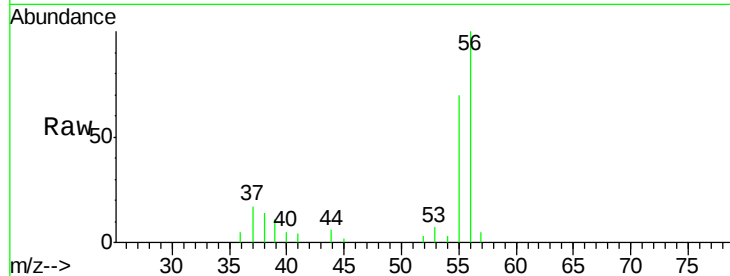
#13
Acrolein
Concen: 98.703 ug/l
RT: 3.59 min Scan# 565
Delta R.T. 0.00 min
Lab File: VN057704.D
Acq: 5 Sep 2019 18:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	56	Resp	26326
Ion Ratio	100	Lower	Upper
55	77.2	55.4	83.0

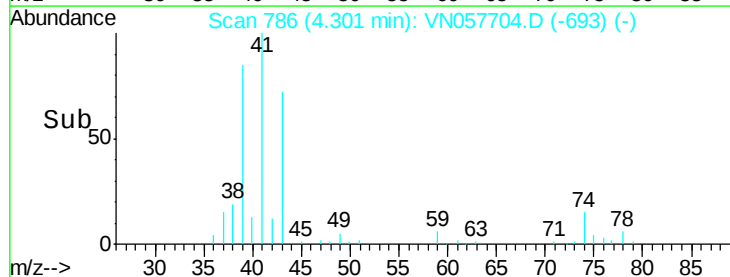
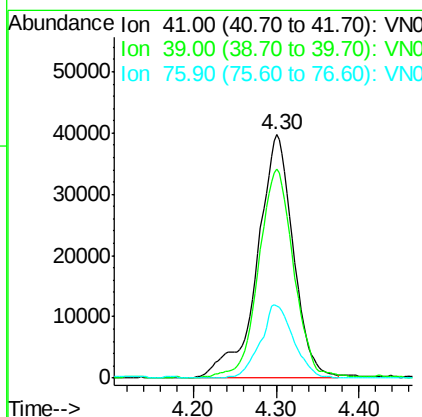
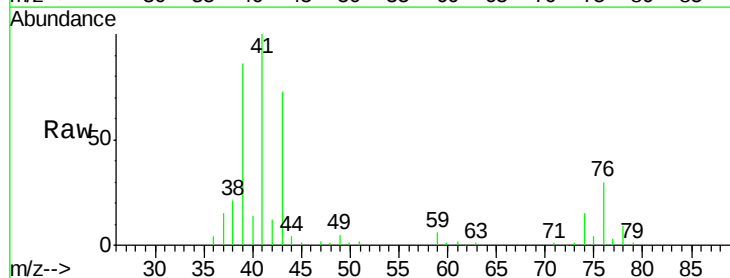
Manual Integrations
APPROVED

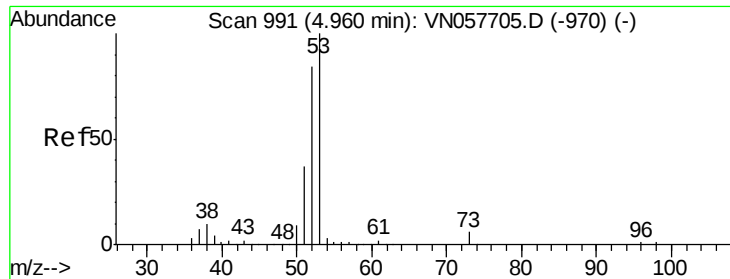
MMDadoda
9/9/2019 1:10:27 PM



#14
Allyl chloride
Concen: 22.263 ug/l
RT: 4.30 min Scan# 786
Delta R.T. 0.00 min
Lab File: VN057704.D
Acq: 5 Sep 2019 18:32

Tgt Ion	41	Resp	120255
Ion Ratio	100	Lower	Upper
39	83.9	67.5	101.3
76	27.7	21.4	32.2





#15

Acrylonitrile

Concen: 119.672 ug/l

RT: 4.96 min Scan# 991

Delta R.T. 0.00 min

Lab File: VN057704.D

Acq: 5 Sep 2019 18:32

Instrument :

MSVOA_N

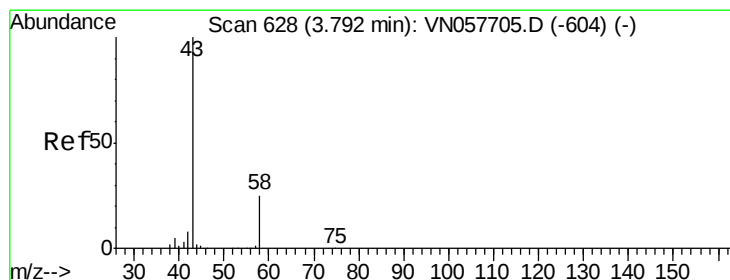
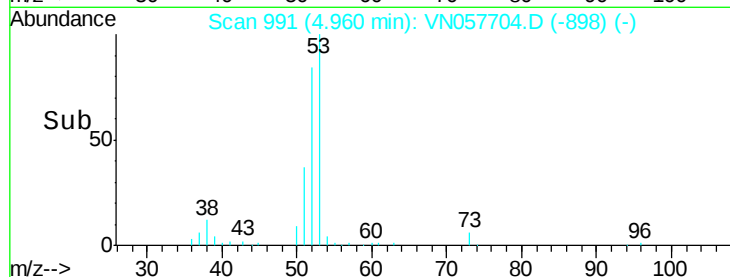
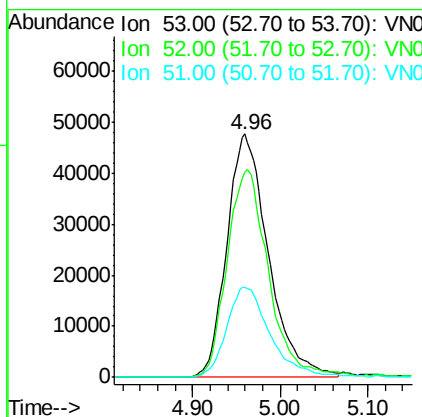
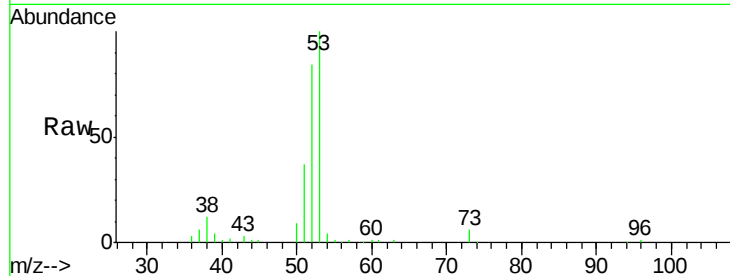
ClientSampleId :

VSTDIC020

Tot Ion:	53	Resp:	156947
Ion	Ratio	Lower	Upper
53	100		
52	85.0	68.1	102.1
51	38.7	30.4	45.6

Manual Integrations
APPROVED

MMDadoda
9/9/2019 1:10:27 PM



#16

Acetone

Concen: 100.843 ug/l

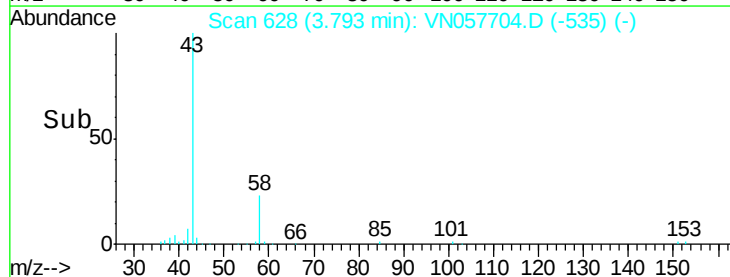
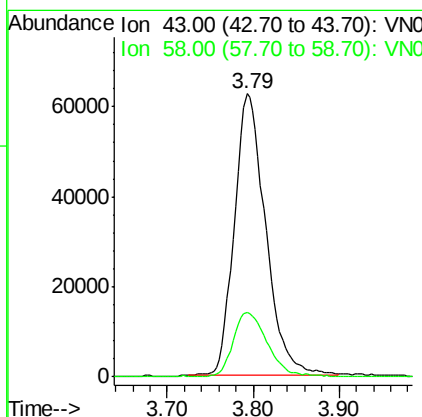
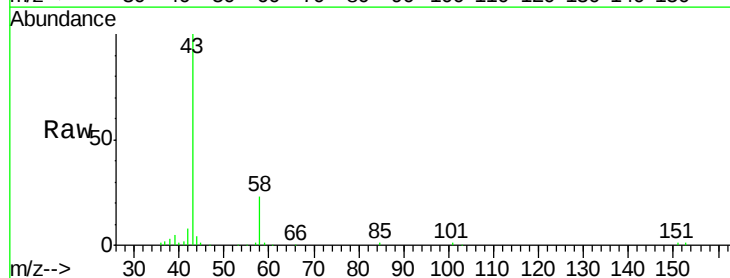
RT: 3.79 min Scan# 628

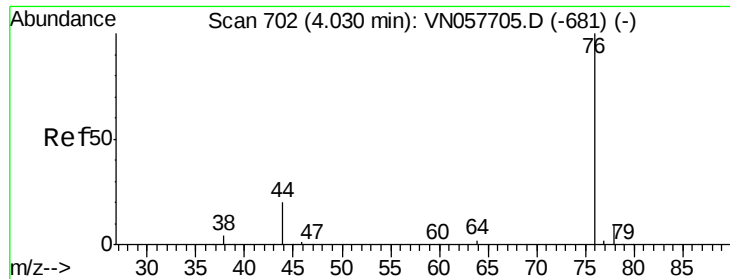
Delta R.T. 0.00 min

Lab File: VN057704.D

Acq: 5 Sep 2019 18:32

Tgt Ion:	43	Resp:	158593
Ion	Ratio	Lower	Upper
43	100		
58	22.9	19.8	29.8





#17

Carbon Disulfide

Concen: 21.922 ug/l

RT: 4.03 min Scan# 701

Delta R.T. -0.00 min

Lab File: VN057704.D

Acq: 5 Sep 2019 18:32

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion: 76 Resp: 121663

Ion Ratio Lower Upper

76 100

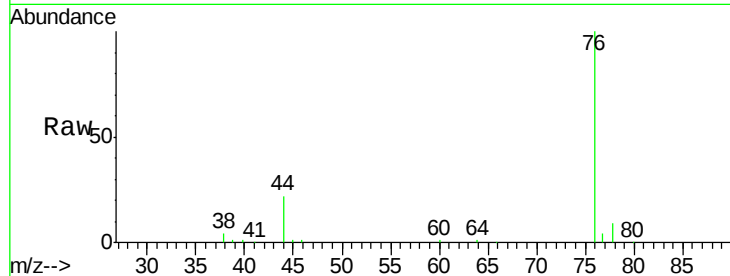
78 8.8 7.0 10.6

Manual Integrations

APPROVED

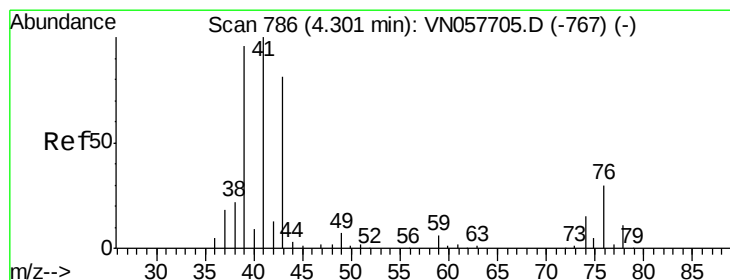
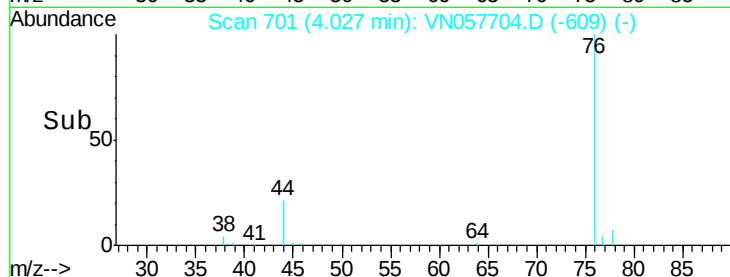
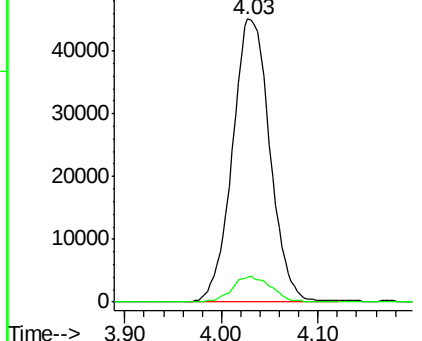
MMDadoda

9/9/2019 1:10:27 PM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#18

Methyl Acetate

Concen: 20.019 ug/l

RT: 4.30 min Scan# 787

Delta R.T. 0.00 min

Lab File: VN057704.D

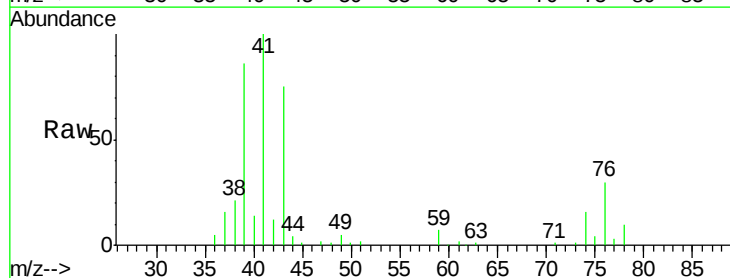
Acq: 5 Sep 2019 18:32

Tgt Ion: 43 Resp: 82197

Ion Ratio Lower Upper

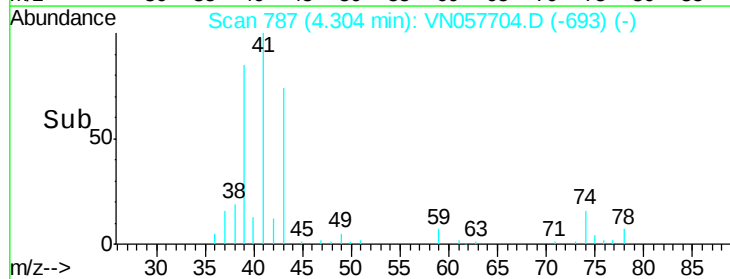
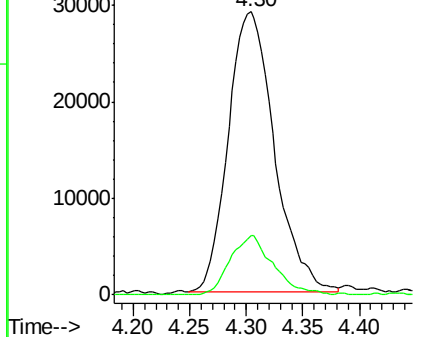
43 100

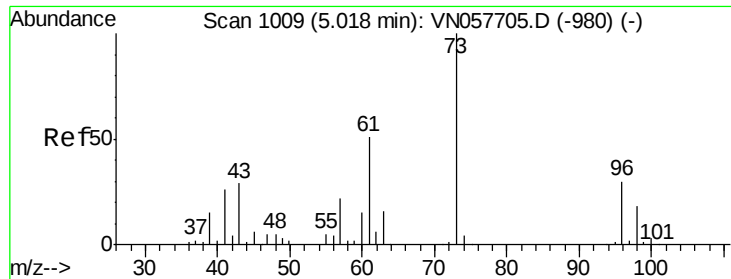
74 19.8 15.3 22.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





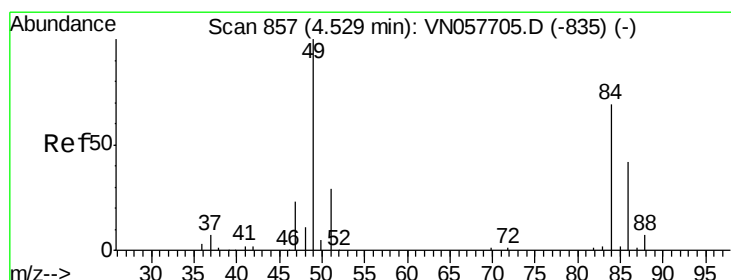
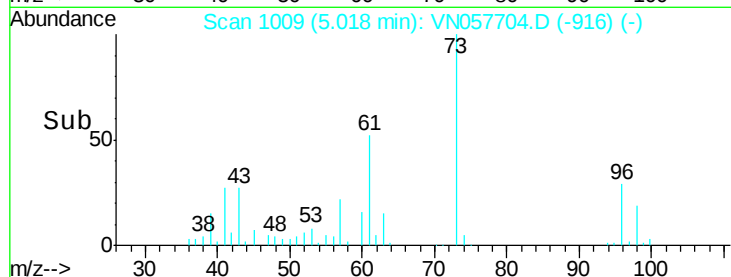
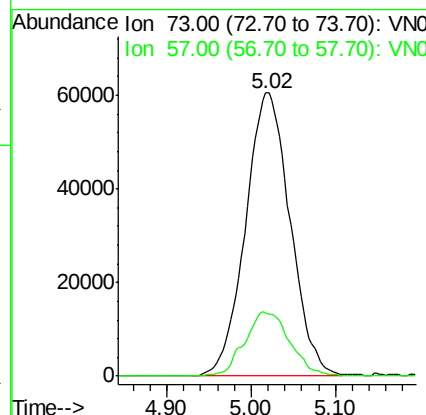
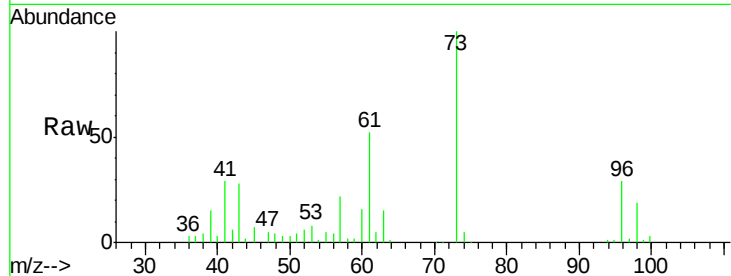
#19
Methvl tert-butvl Ether
Concen: 22.482 ug/l
RT: 5.02 min Scan# 1009
Delta R.T. 0.00 min
Lab File: VN057704.D
Acq: 5 Sep 2019 18:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion: 73 Resp: 222663
Ion Ratio Lower Upper
73 100
57 22.1 17.7 26.5

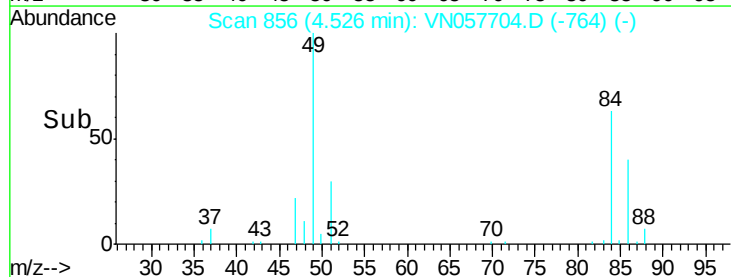
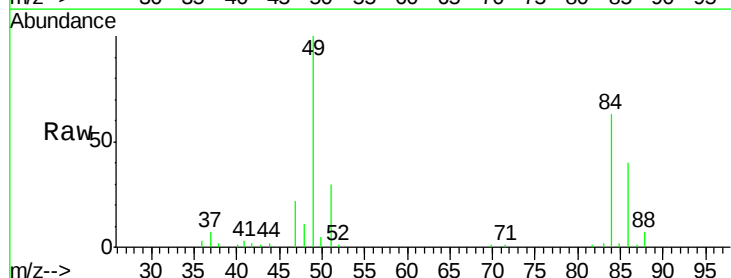
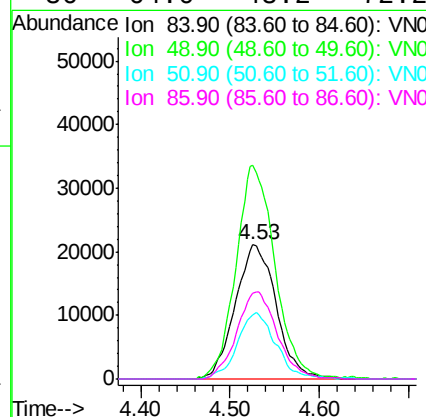
Manual Integrations
APPROVED

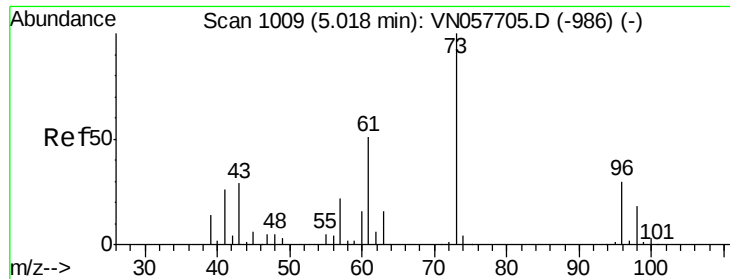
MMDadoda
9/9/2019 1:10:27 PM



#20
Methylene Chloride
Concen: 22.115 ug/l
RT: 4.53 min Scan# 856
Delta R.T. -0.00 min
Lab File: VN057704.D
Acq: 5 Sep 2019 18:32

Tgt Ion: 84 Resp: 67213
Ion Ratio Lower Upper
84 100
49 159.3 115.0 172.6
51 47.6 33.8 50.8
86 64.0 48.2 72.2





#21

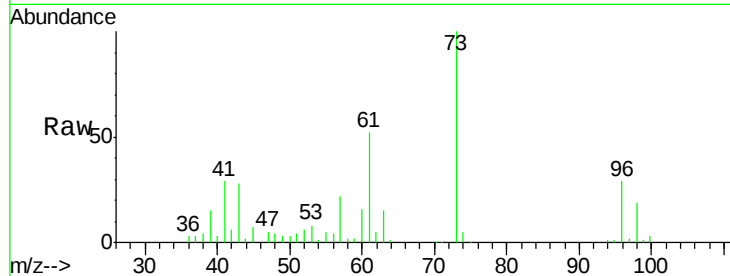
trans-1,2-Dichloroethene
Concen: 22.048 ug/l
RT: 5.02 min Scan# 1009
Delta R.T. 0.00 min
Lab File: VN057704.D
Acq: 5 Sep 2019 18:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
96	100		
61	175.9	135.8	203.8
98	62.9	49.0	73.6

Manual Integrations
APPROVED

MMDadoda
9/9/2019 1:10:27 PM

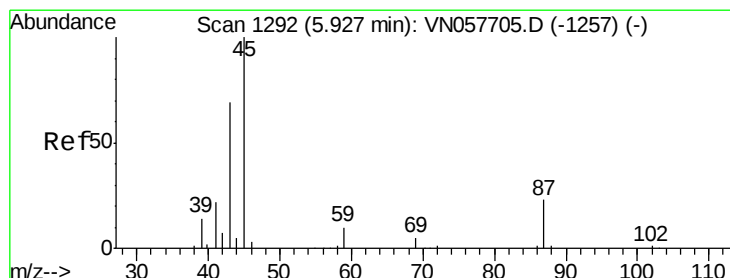
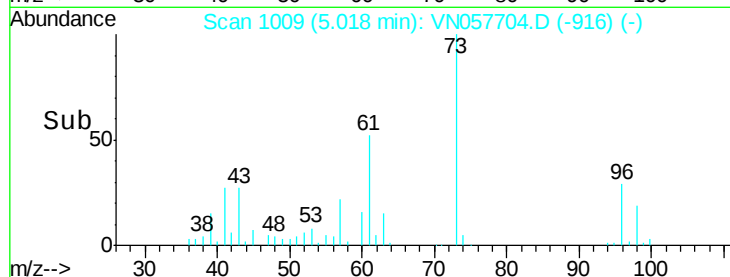
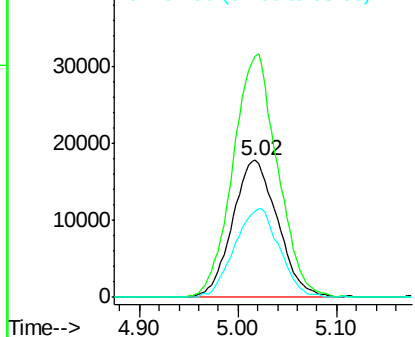


Abundance

Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

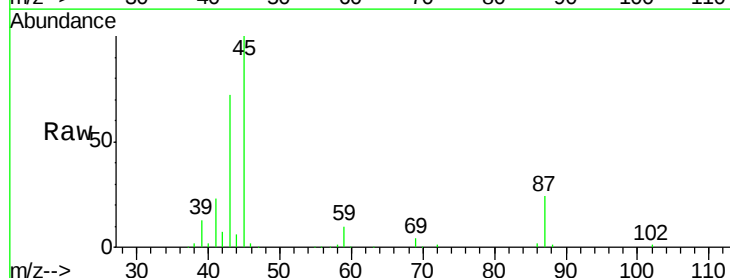
Ion 97.90 (97.60 to 98.60): VN0



#22

Diisopropyl ether
Concen: 22.563 ug/l
RT: 5.93 min Scan# 1293
Delta R.T. 0.00 min
Lab File: VN057704.D
Acq: 5 Sep 2019 18:32

Tgt Ion	Ratio	Lower	Upper
45	100		
43	68.3	55.5	83.3
87	23.8	18.6	28.0
59	9.5	7.9	11.9



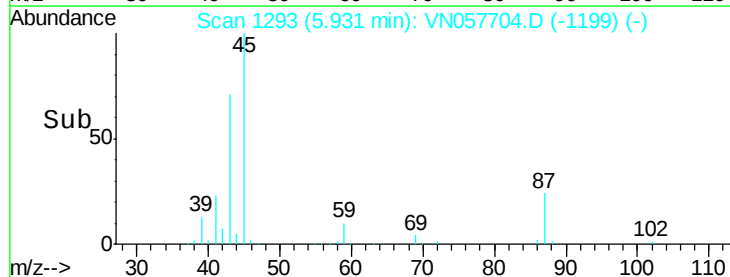
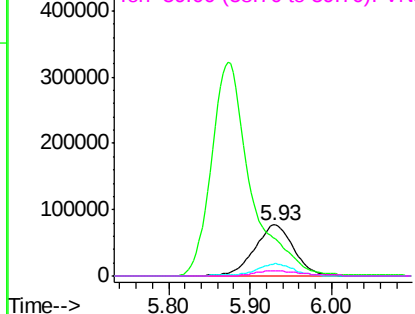
Abundance

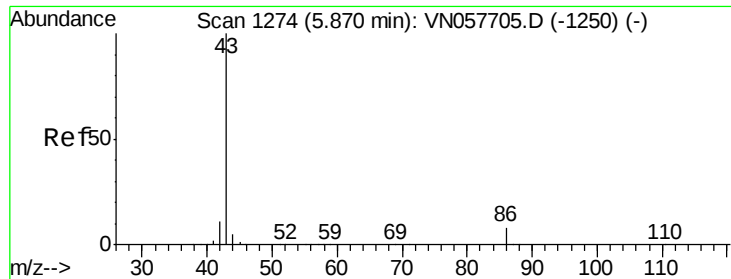
Ion 45.00 (44.70 to 45.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

Ion 59.00 (58.70 to 59.70): VN0





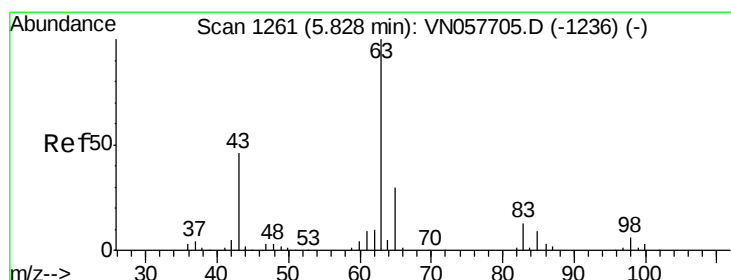
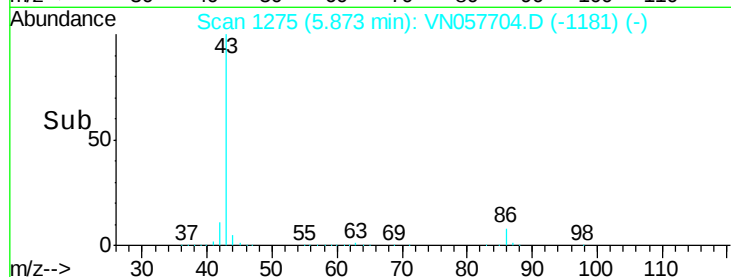
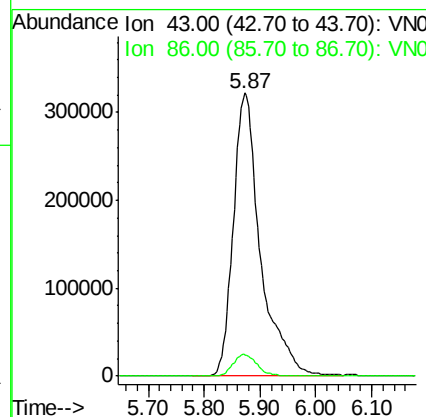
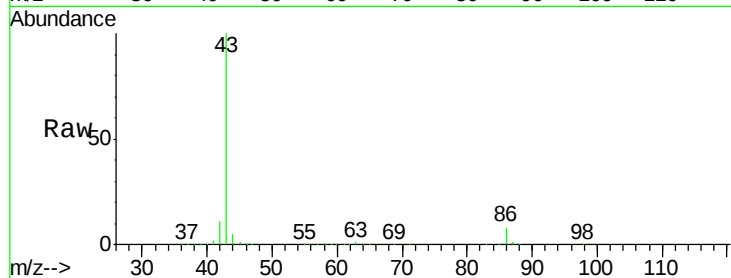
#23
 Vinyl Acetate
 Concen: 125.634 ug/l
 RT: 5.87 min Scan# 1275
 Delta R.T. 0.00 min
 Lab File: VN057704.D
 Acq: 5 Sep 2019 18:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion: 43 Resp: 1091557
 Ion Ratio Lower Upper
 43 100
 86 7.6 6.2 9.4

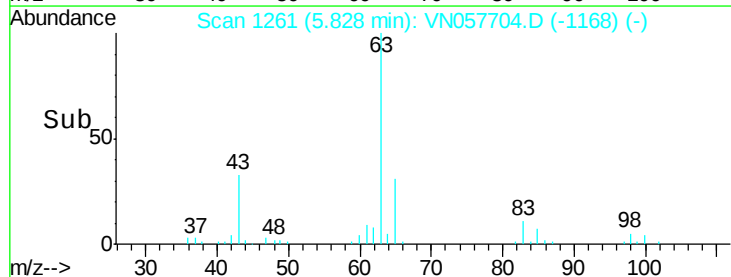
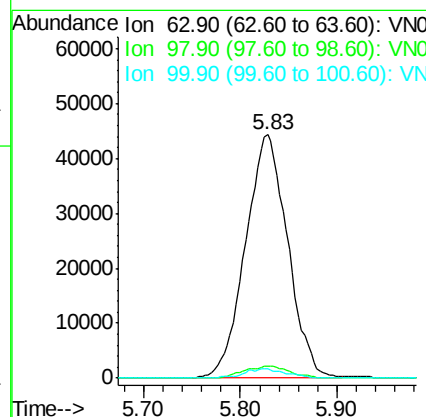
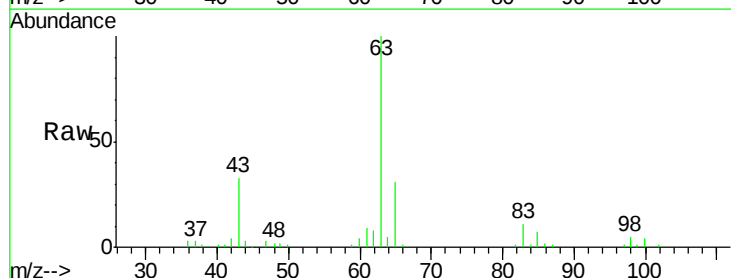
Manual Integrations
 APPROVED

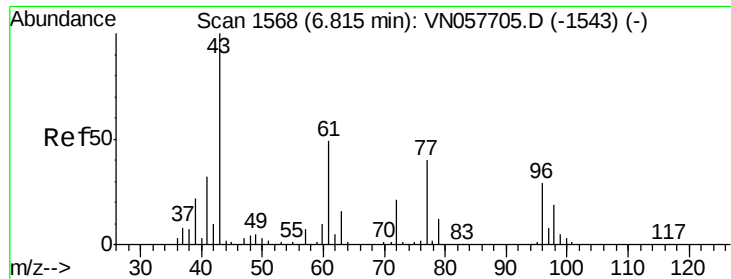
MMDadoda
 9/9/2019 1:10:27 PM



#24
 1,1-Dichloroethane
 Concen: 23.022 ug/l
 RT: 5.83 min Scan# 1261
 Delta R.T. 0.00 min
 Lab File: VN057704.D
 Acq: 5 Sep 2019 18:32

Tgt Ion: 63 Resp: 134426
 Ion Ratio Lower Upper
 63 100
 98 4.9 2.9 8.8
 100 3.7 1.7 5.0





#25

2-Butanone

Concen: 113.012 ug/l

RT: 6.82 min Scan# 1569

Delta R.T. 0.00 min

Lab File: VN057704.D

Acq: 5 Sep 2019 18:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 234888

Ion Ratio Lower Upper

43 100

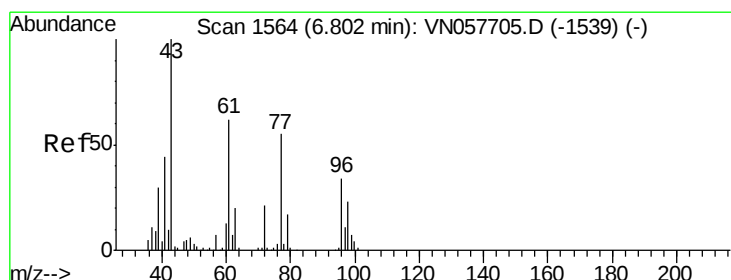
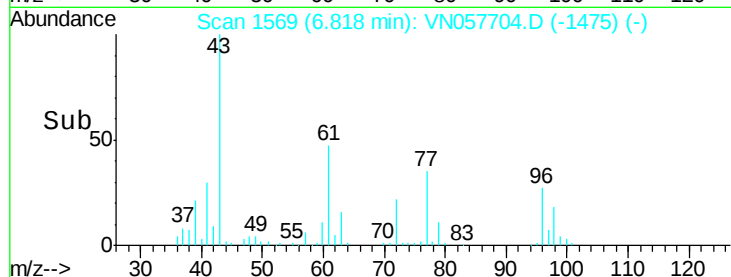
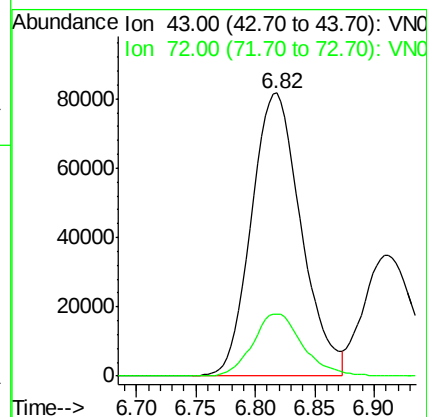
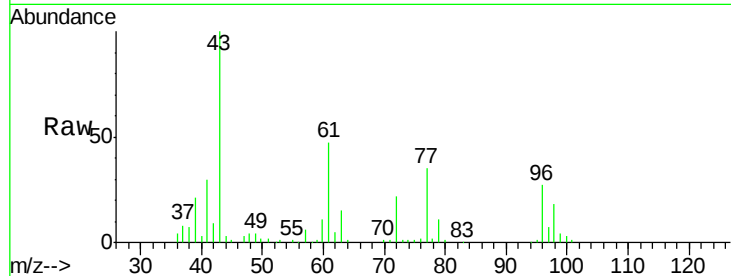
72 22.1 17.0 25.6

Manual Integrations

APPROVED

MMDadoda

9/9/2019 1:10:27 PM



#26

2,2-Dichloropropane

Concen: 21.994 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. 0.00 min

Lab File: VN057704.D

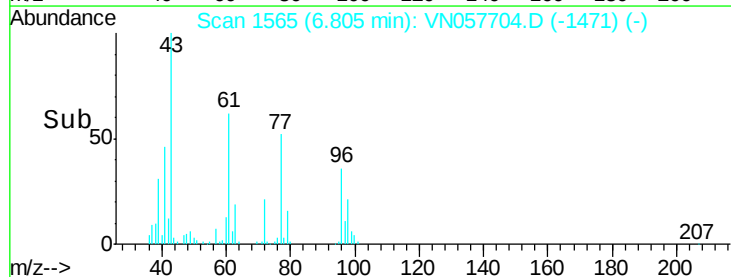
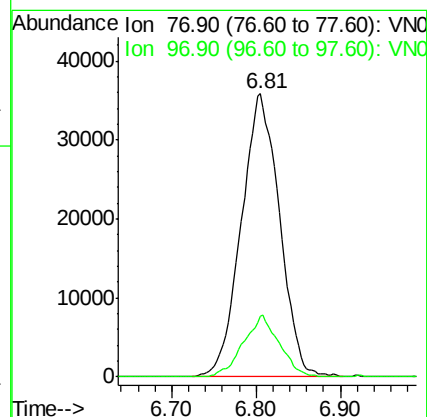
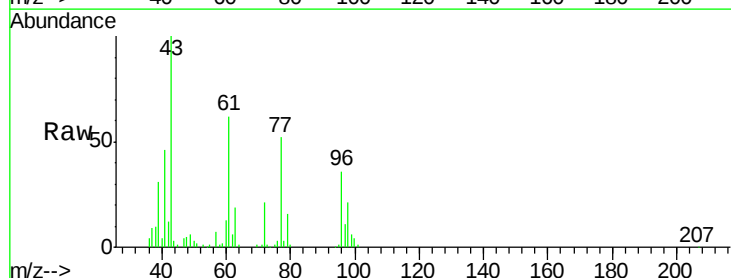
Acq: 5 Sep 2019 18:32

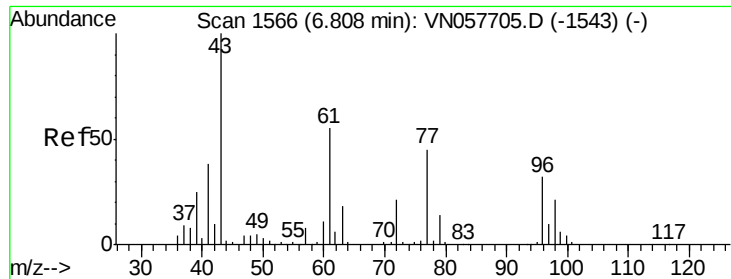
Tgt Ion: 77 Resp: 113200

Ion Ratio Lower Upper

77 100

97 20.3 10.1 30.1





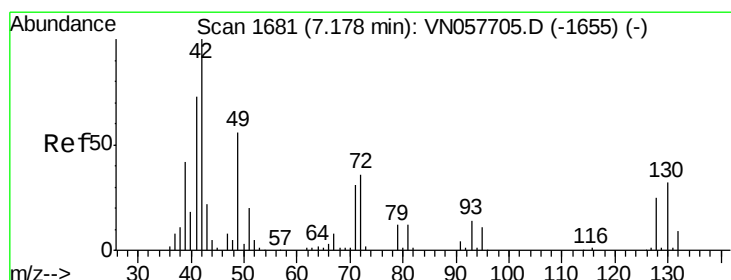
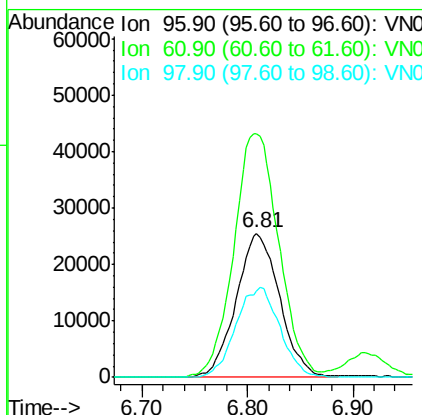
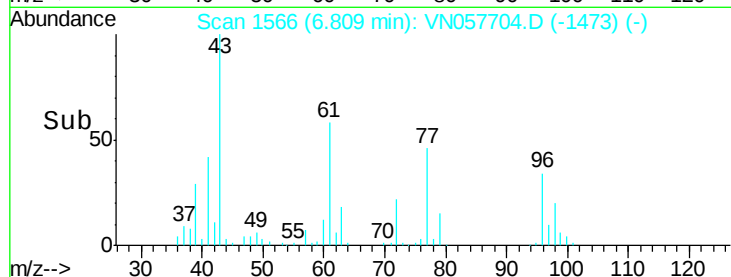
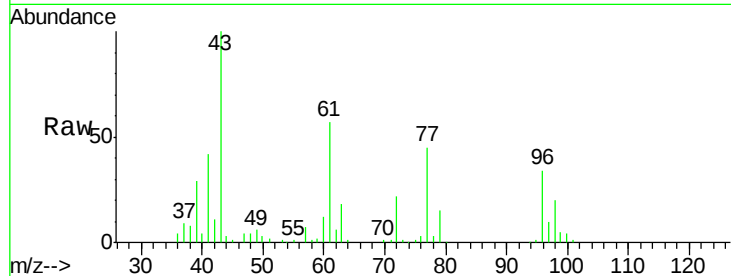
#27
 cis-1,2-Dichloroethene
 Concen: 23.668 ug/l
 RT: 6.81 min Scan# 1566
 Delta R.T. 0.00 min
 Lab File: VN057704.D
 Acq: 5 Sep 2019 18:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
96	100	72973		
61	175.9		0.0	360.6
98	63.3		0.0	130.6

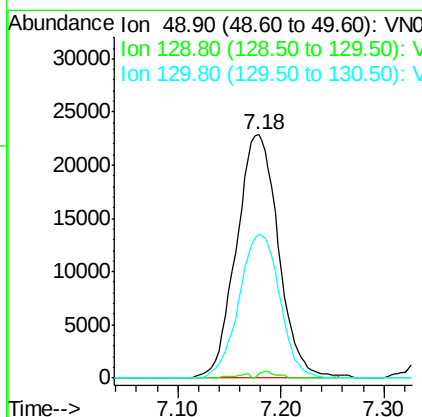
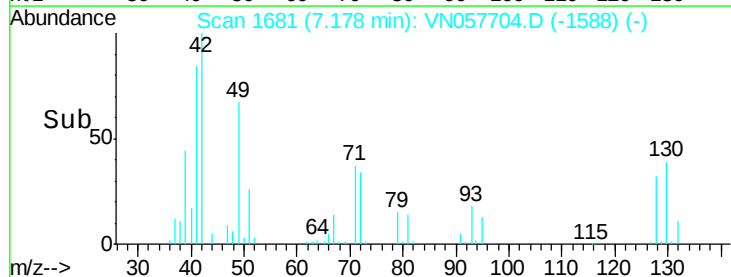
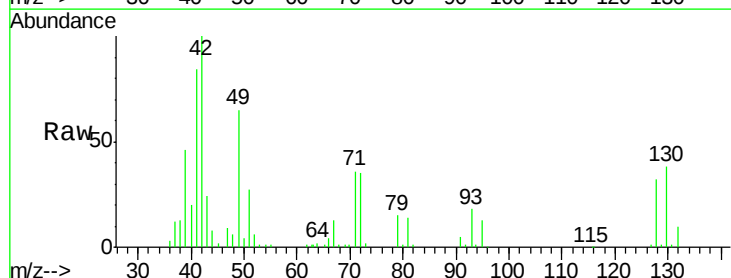
Manual Integrations
 APPROVED

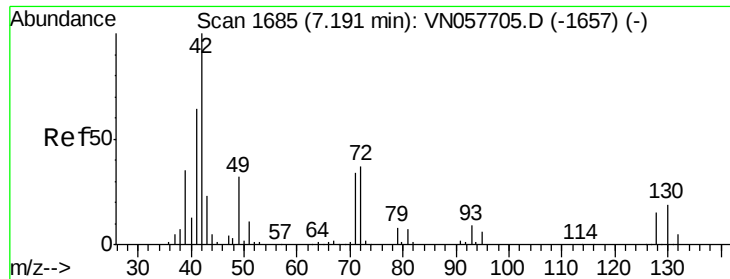
MMDadoda
 9/9/2019 1:10:27 PM



#28
 Bromochloromethane
 Concen: 21.141 ug/l
 RT: 7.18 min Scan# 1681
 Delta R.T. 0.00 min
 Lab File: VN057704.D
 Acq: 5 Sep 2019 18:32

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	64727		
129	1.1		0.0	2.4
130	57.2		45.8	68.8





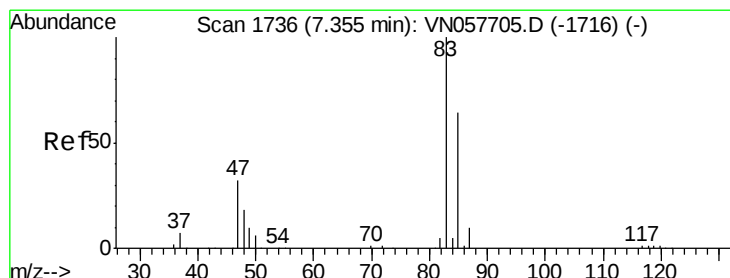
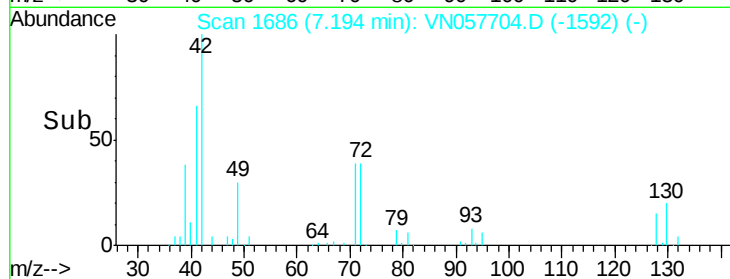
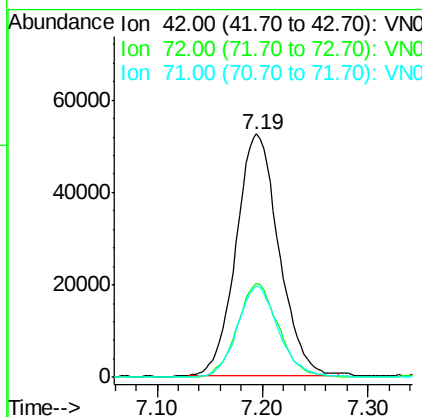
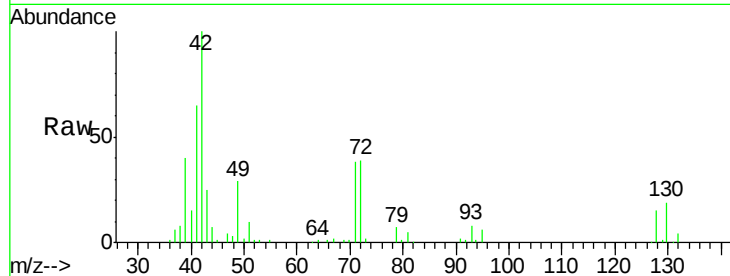
#29
Tetrahydrofuran
Concen: 115.824 ug/l
RT: 7.19 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VN057704.D
Acq: 5 Sep 2019 18:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.8	29.2	43.8
71	36.7	27.0	40.4

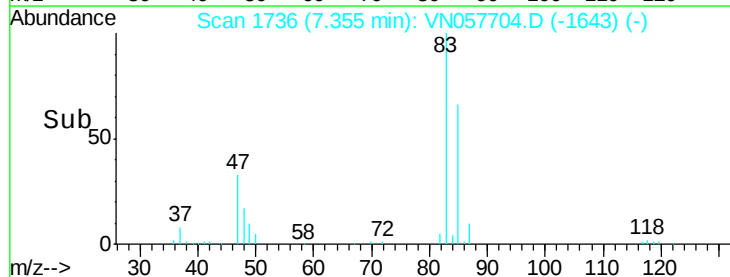
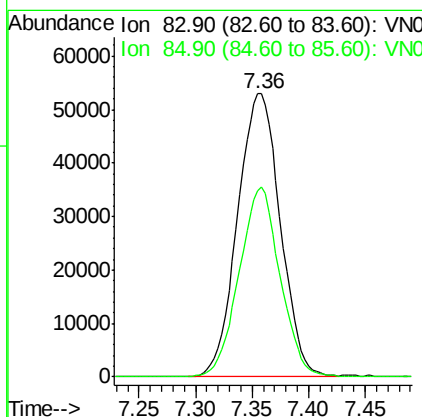
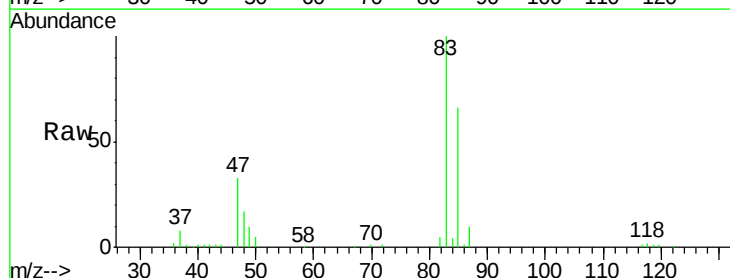
Manual Integrations
APPROVED

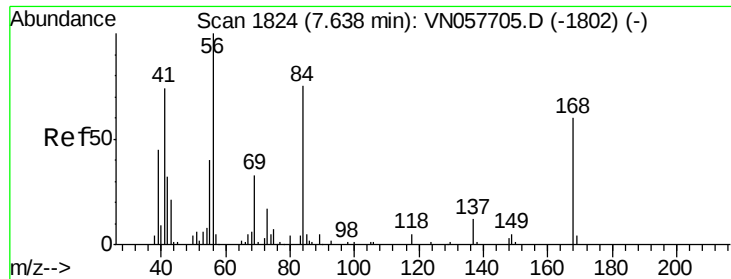
MMDadoda
9/9/2019 1:10:27 PM



#30
Chloroform
Concen: 22.425 ug/l
RT: 7.36 min Scan# 1736
Delta R.T. 0.00 min
Lab File: VN057704.D
Acq: 5 Sep 2019 18:32

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.9	51.3	76.9





#31

Cyclohexane

Concen: 22.958 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. 0.00 min

Lab File: VN057704.D

Acq: 5 Sep 2019 18:32

Instrument :

MSVOA_N

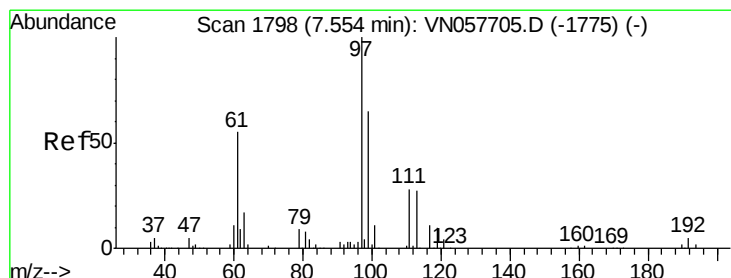
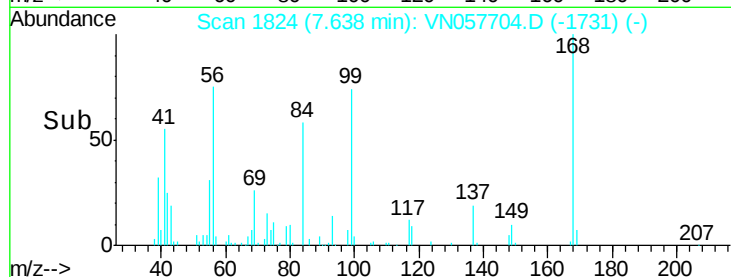
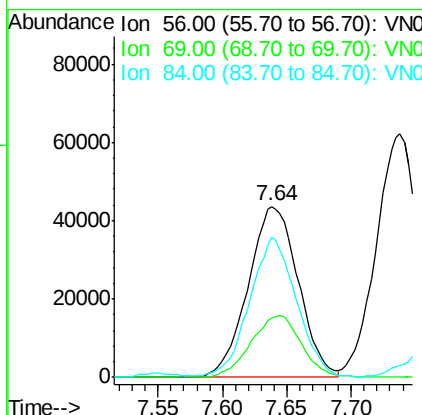
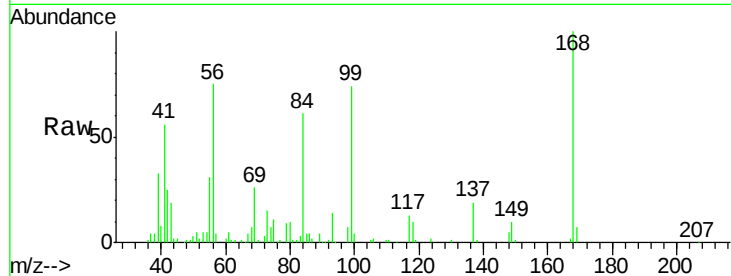
ClientSampleId :

VSTDIC020

Tot Ion:	56	Resp:	117971
Ion	Ratio	Lower	Upper
56	100		
69	34.4	26.2	39.2
84	80.5	59.8	89.8

Manual Integrations
APPROVED

MMDadoda
9/9/2019 1:10:27 PM



#32

1,1,1-Trichloroethane

Concen: 22.606 ug/l

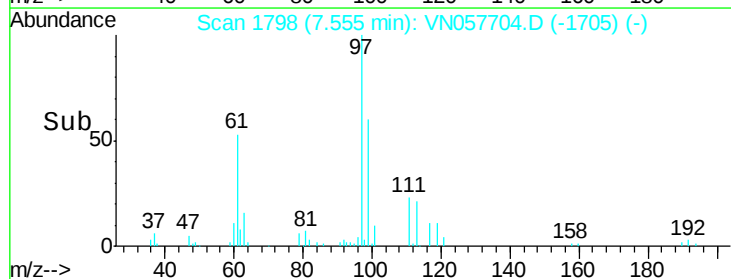
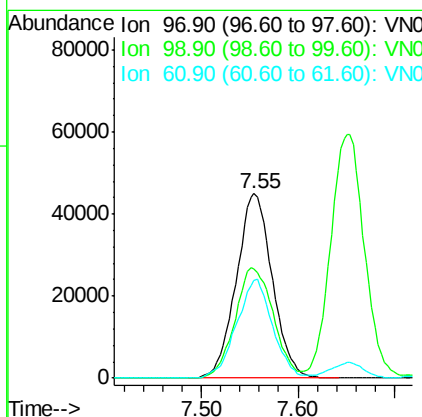
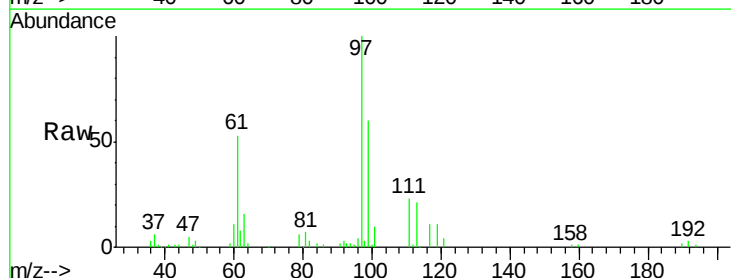
RT: 7.55 min Scan# 1798

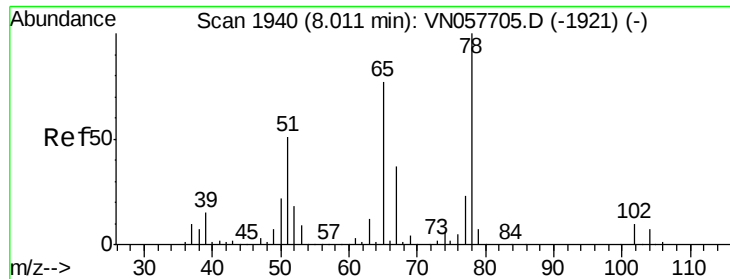
Delta R.T. 0.00 min

Lab File: VN057704.D

Acq: 5 Sep 2019 18:32

Tgt Ion:	97	Resp:	116327
Ion	Ratio	Lower	Upper
97	100		
99	63.5	51.2	76.8
61	53.4	42.8	64.2





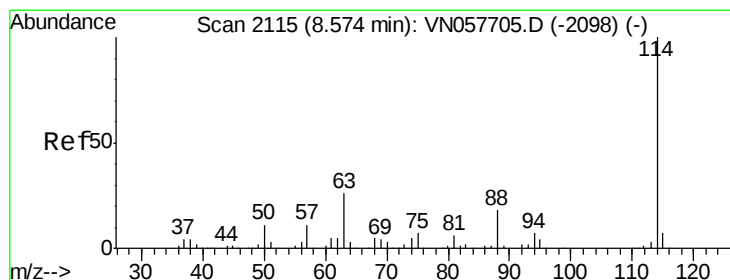
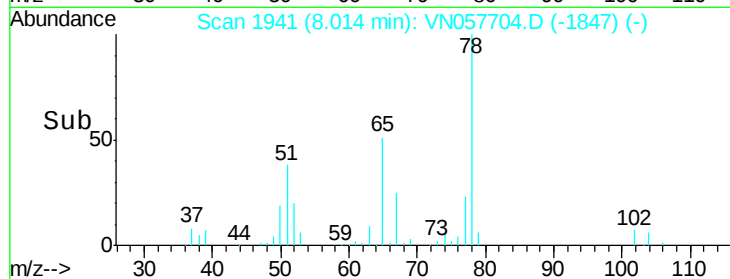
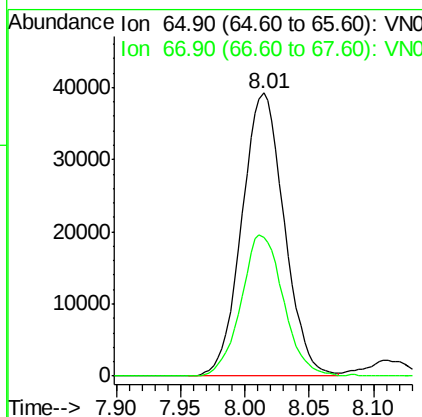
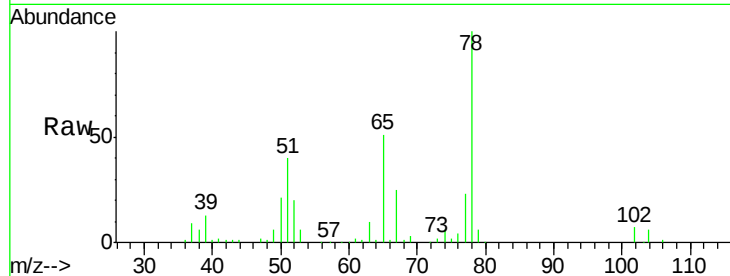
#33
 1,2-Dichloroethane-d4
 Concen: 19.735 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN057704.D
 Acq: 5 Sep 2019 18:32

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	49.9	0.0	98.2	

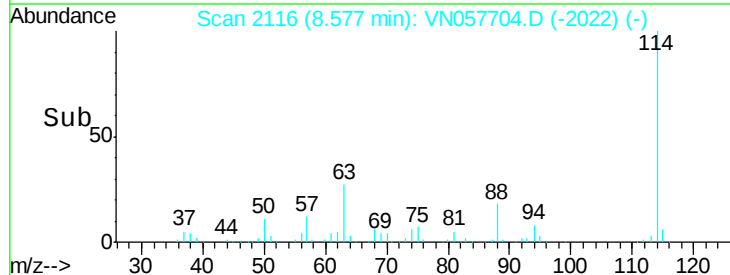
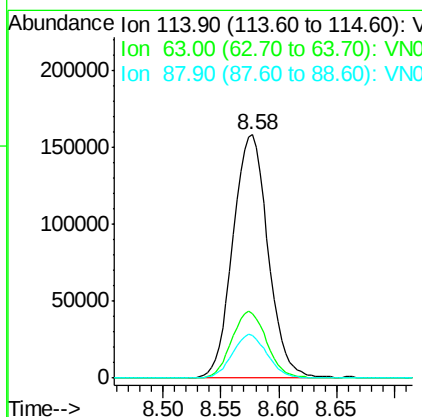
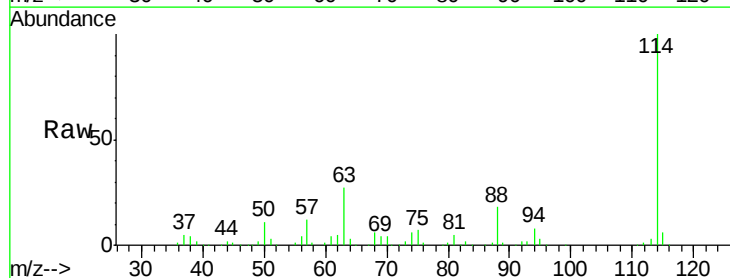
Manual Integrations
 APPROVED

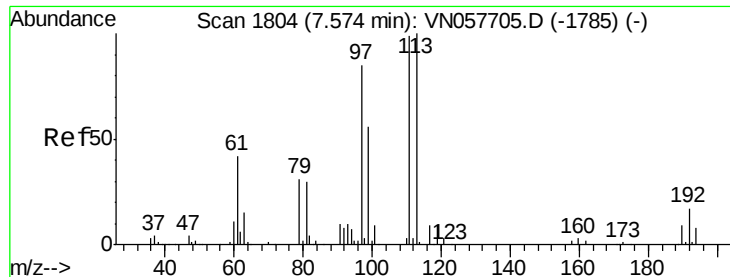
MMDadoda
 9/9/2019 1:10:27 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057704.D
 Acq: 5 Sep 2019 18:32

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	26.6	0.0	52.4	
88	17.5	0.0	35.4	





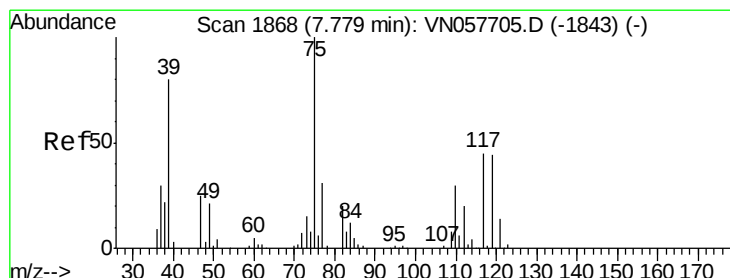
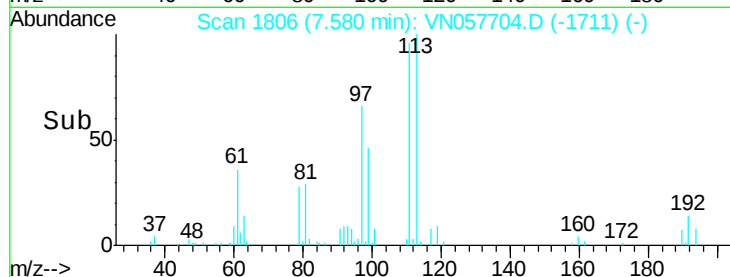
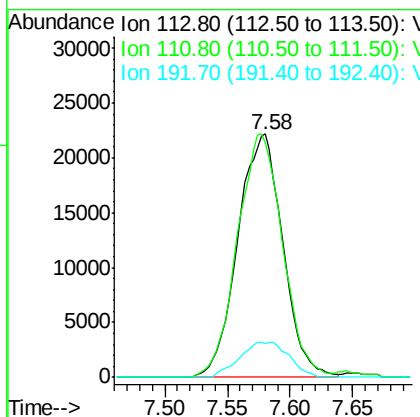
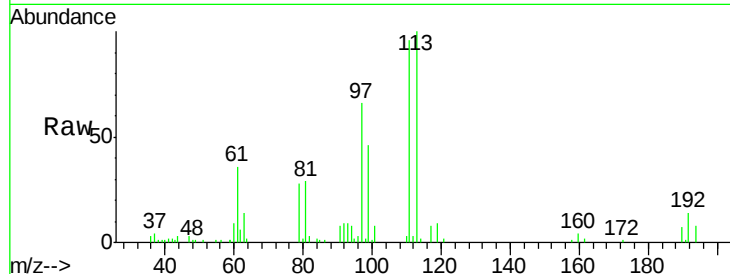
#35
 Dibromofluoromethane
 Concen: 18.297 ug/l
 RT: 7.58 min Scan# 1806
 Delta R.T. 0.01 min
 Lab File: VN057704.D
 Acq: 5 Sep 2019 18:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
113	100		
111	100.2	82.7	124.1
192	15.8	13.8	20.6

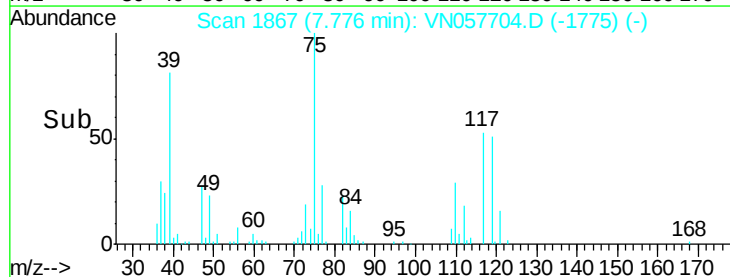
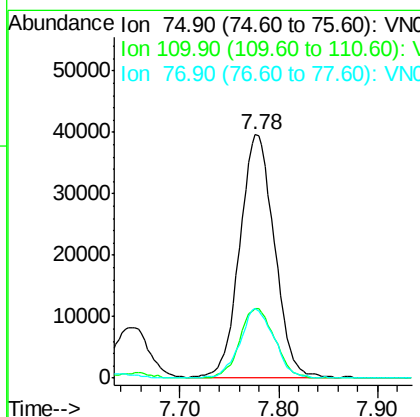
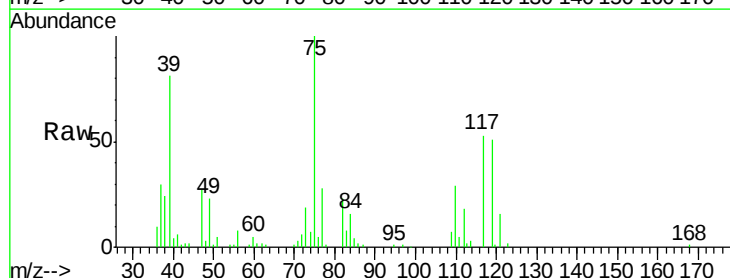
Manual Integrations
 APPROVED

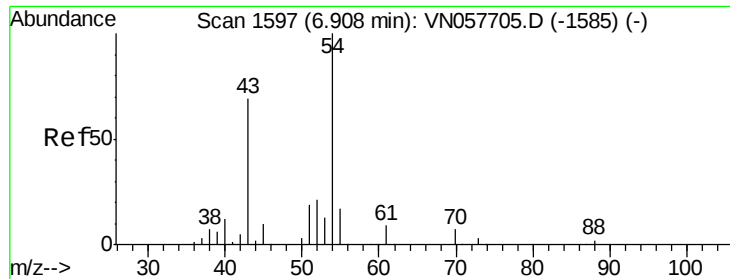
MMDadoda
 9/9/2019 1:10:27 PM



#36
 1,1-Dichloropropene
 Concen: 23.047 ug/l
 RT: 7.78 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN057704.D
 Acq: 5 Sep 2019 18:32

Tgt Ion	Ratio	Lower	Upper
75	100		
110	28.7	15.0	45.0
77	28.1	24.6	37.0





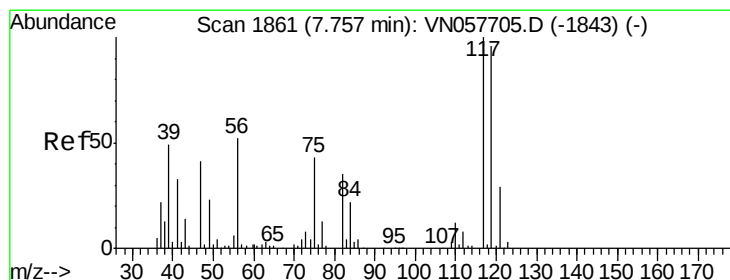
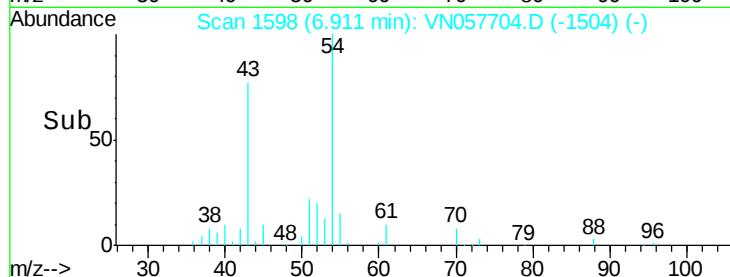
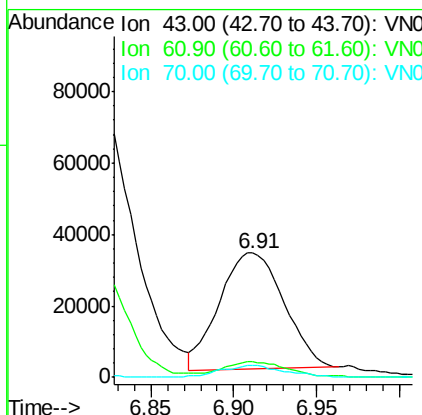
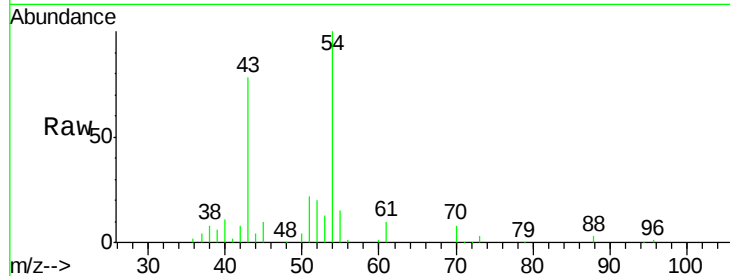
#37
Ethyl Acetate
Concen: 20.781 ug/l
RT: 6.91 min Scan# 1598
Delta R.T. 0.00 min
Lab File: VN057704.D
Acq: 5 Sep 2019 18:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.6	9.8	14.8
70	10.3	6.7	10.1

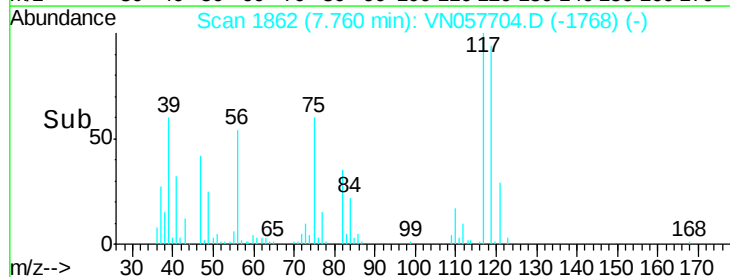
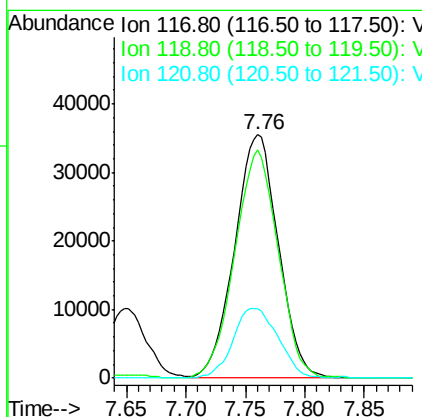
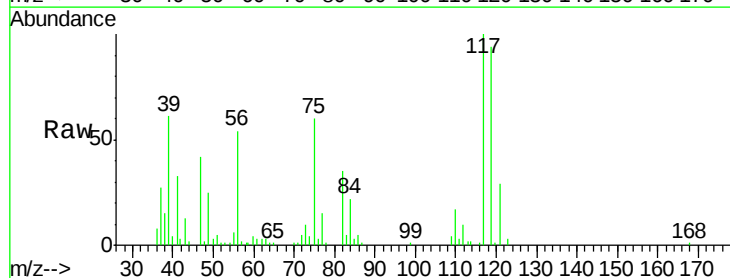
Manual Integrations
APPROVED

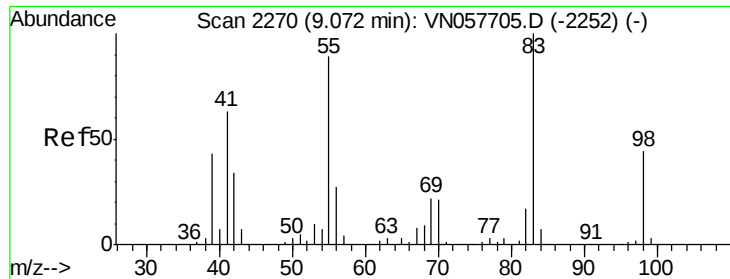
MMDadoda
9/9/2019 1:10:27 PM



#38
Carbon Tetrachloride
Concen: 21.162 ug/l
RT: 7.76 min Scan# 1862
Delta R.T. 0.00 min
Lab File: VN057704.D
Acq: 5 Sep 2019 18:32

Tgt Ion	Ratio	Lower	Upper
117	100		
119	93.2	76.1	114.1
121	28.8	23.4	35.2





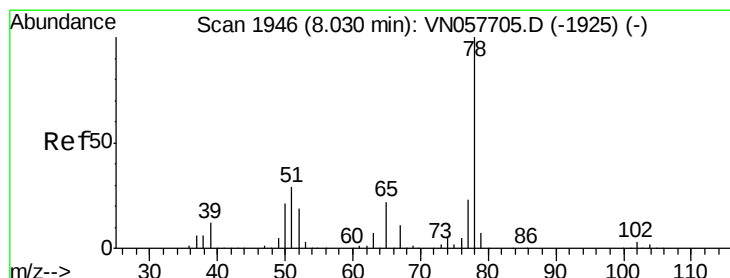
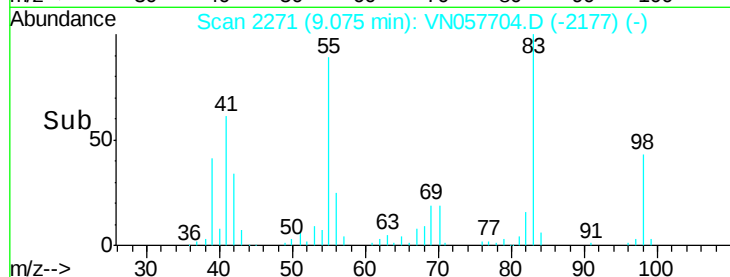
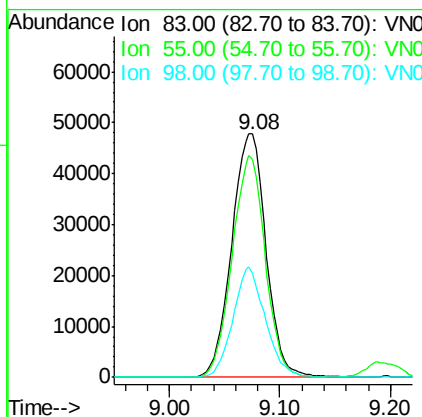
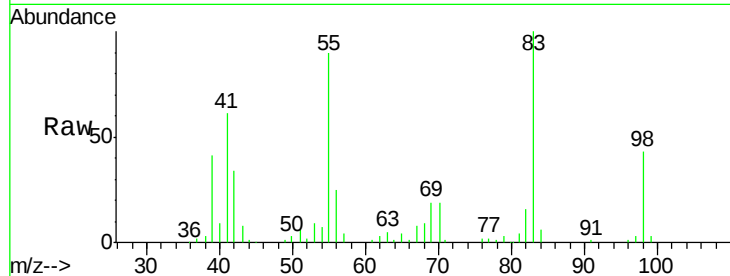
#39
Methvlcvclohexane
Concen: 22.137 ug/l
RT: 9.08 min Scan# 2271
Delta R.T. 0.00 min
Lab File: VN057704.D
Acq: 5 Sep 2019 18:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	83	Resp	102978
Ion Ratio	100	Lower	Upper
83	100		
55	89.8	71.4	107.0
98	42.6	35.3	52.9

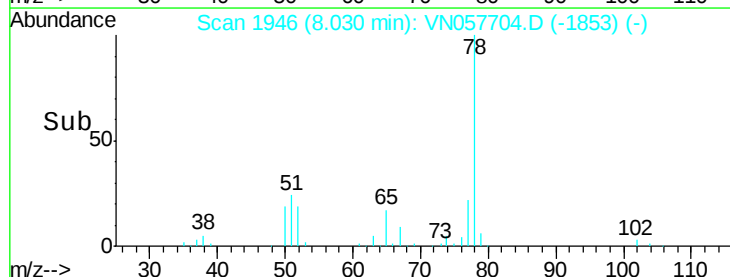
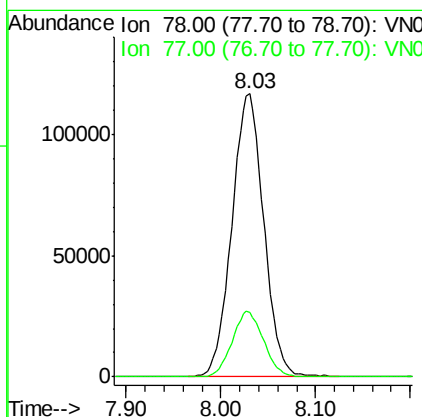
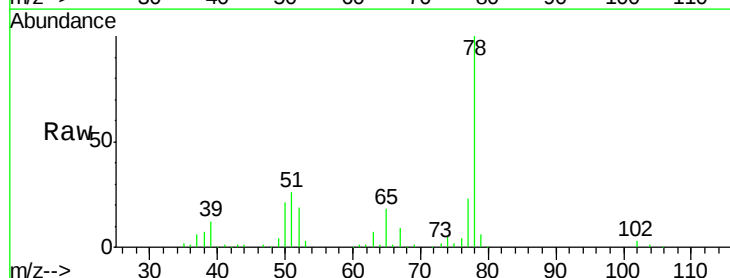
Manual Integrations
APPROVED

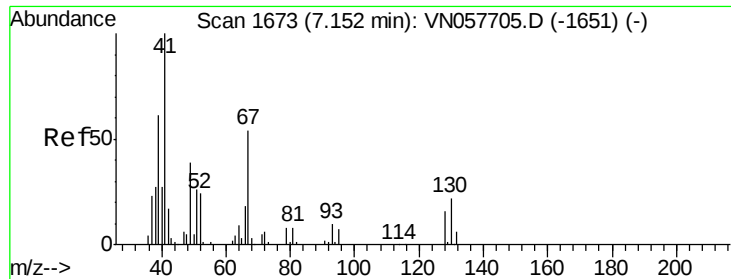
MMDadoda
9/9/2019 1:10:27 PM



#40
Benzene
Concen: 22.442 ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.00 min
Lab File: VN057704.D
Acq: 5 Sep 2019 18:32

Tgt Ion	78	Resp	273504
Ion Ratio	100	Lower	Upper
78	100		
77	22.6	18.6	28.0





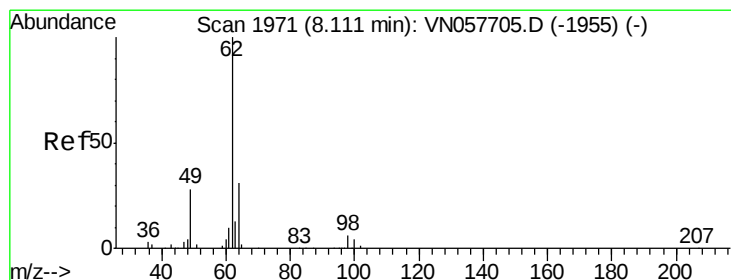
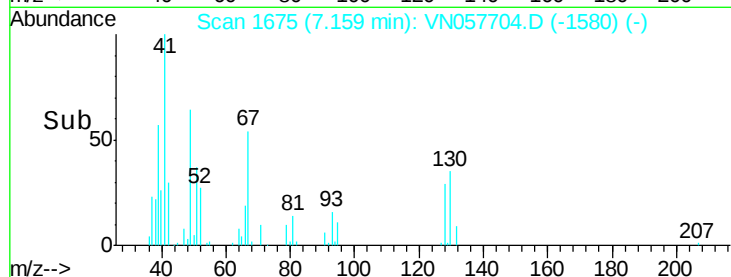
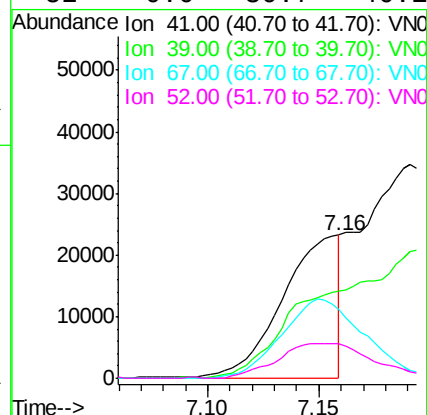
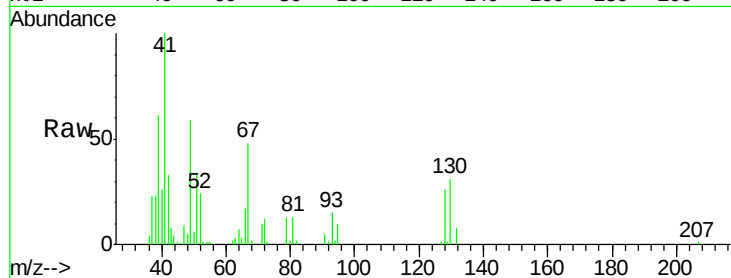
#41
Methacrylonitrile
Concen: 23.310 ug/l m
RT: 7.16 min Scan# 1675
Delta R.T. 0.01 min
Lab File: VN057704.D
Acq: 5 Sep 2019 18:32

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	41	Resp:	41556
Ion	Ratio	Lower	Upper
41	100		
39	214.9	43.6	65.4#
67	0.0	59.8	89.6#
52	0.0	30.7	46.1#

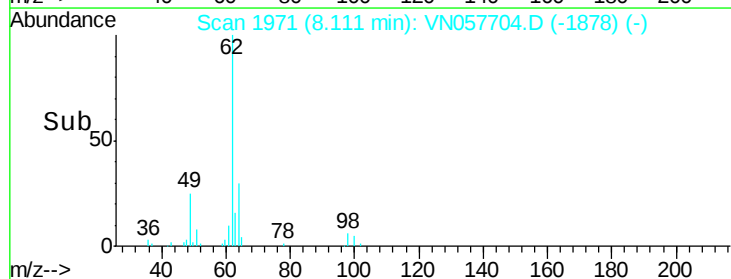
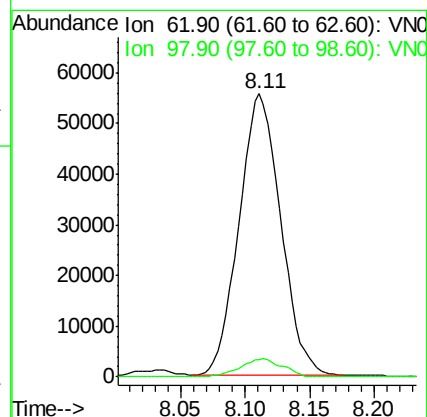
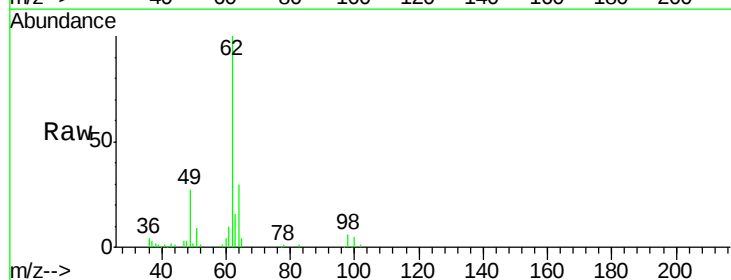
Manual Integrations
APPROVED

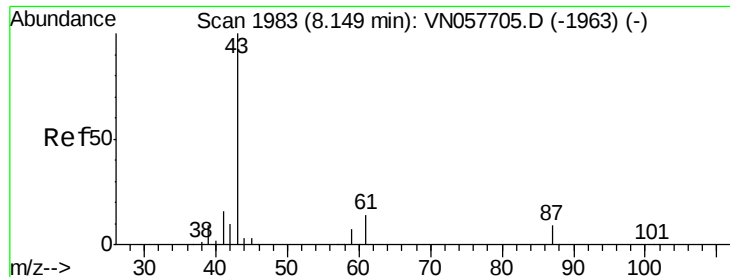
MMDadoda
9/9/2019 1:10:27 PM



#42
1,2-Dichloroethane
Concen: 22.225 ug/l
RT: 8.11 min Scan# 1971
Delta R.T. 0.00 min
Lab File: VN057704.D
Acq: 5 Sep 2019 18:32

Tgt Ion	62	Resp:	124629
Ion	Ratio	Lower	Upper
62	100		
98	6.4	0.0	12.6





#43

Isopropyl Acetate

Concen: 23.286 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN057704.D

Acq: 5 Sep 2019 18:32

Instrument :

MSVOA_N

ClientSampleId :

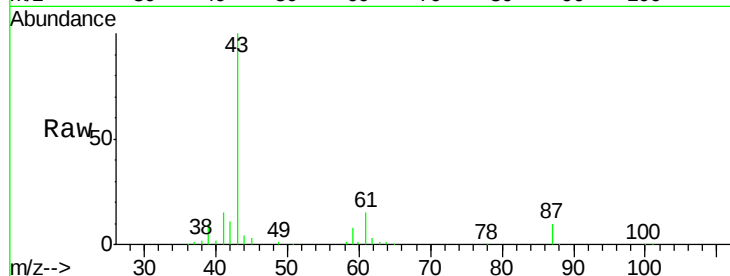
VSTDIC020

Tot Ion: 43 Resp: 182797

Ion	Ratio	Lower	Upper
43	100		
61	23.1	12.8	19.2#
87	9.8	7.8	11.8

Manual Integrations
APPROVED

MMDadoda
9/9/2019 1:10:27 PM

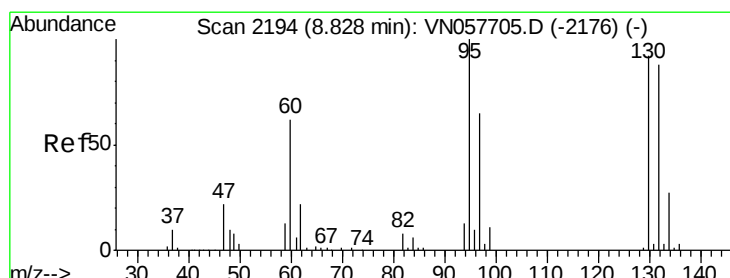
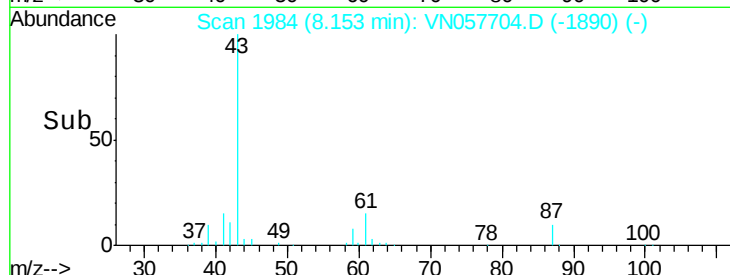
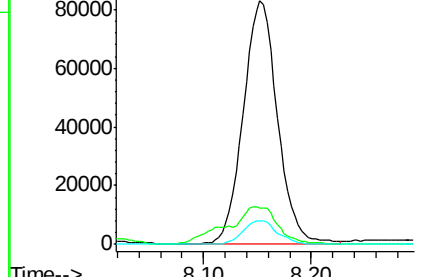


Abundance Ion 43.00 (42.70 to 43.70): VN057705.D (-1963) (-)

Ion 61.00 (60.70 to 61.70): VN057705.D (-1963) (-)

Ion 87.00 (86.70 to 87.70): VN057705.D (-1963) (-)

8.15



#44

Trichloroethene

Concen: 20.773 ug/l

RT: 8.82 min Scan# 2193

Delta R.T. -0.00 min

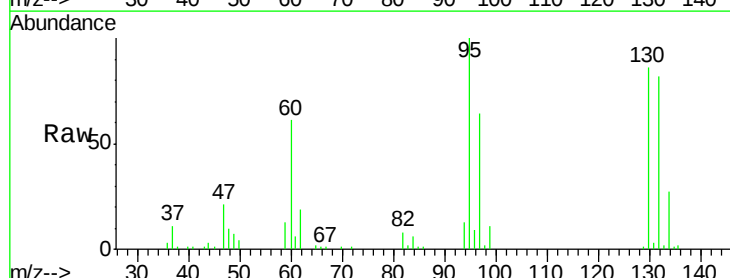
Lab File: VN057704.D

Acq: 5 Sep 2019 18:32

Tgt Ion: 130 Resp: 60600

Ion	Ratio	Lower	Upper
130	100		
95	116.4	0.0	217.8

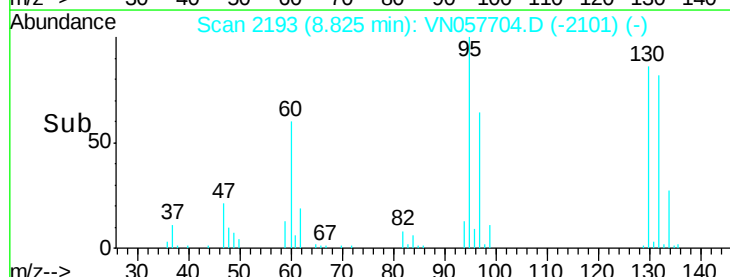
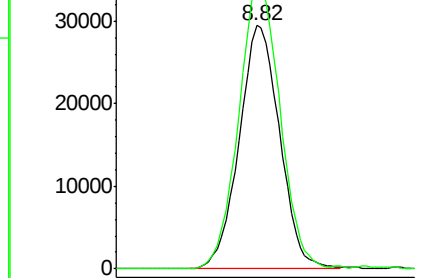
95 116.4 0.0 217.8

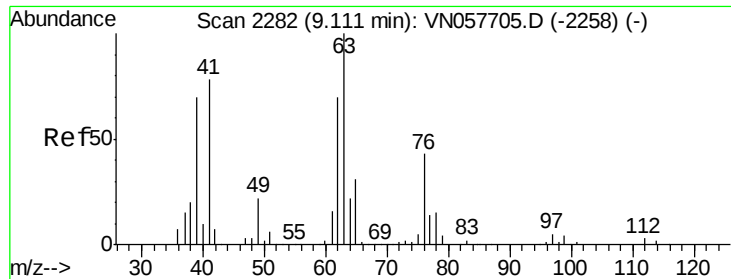


Abundance Ion 129.80 (129.50 to 130.50): VN057705.D (-2176) (-)

Ion 94.90 (94.60 to 95.60): VN057705.D (-2176) (-)

8.82





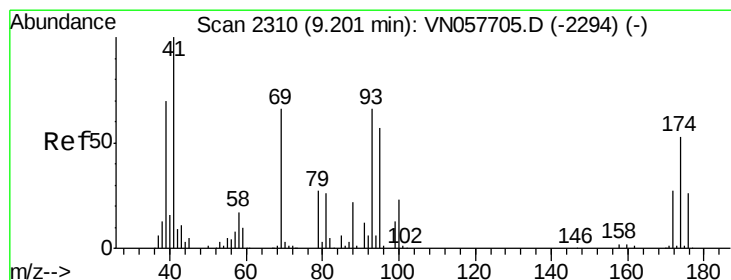
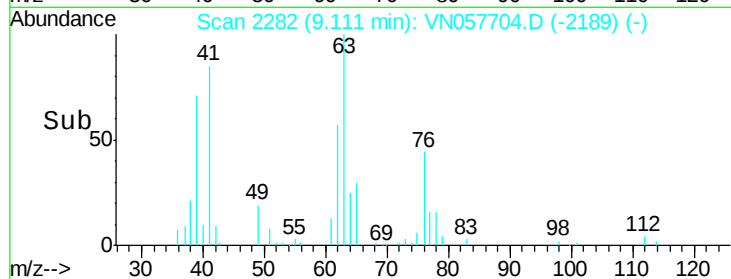
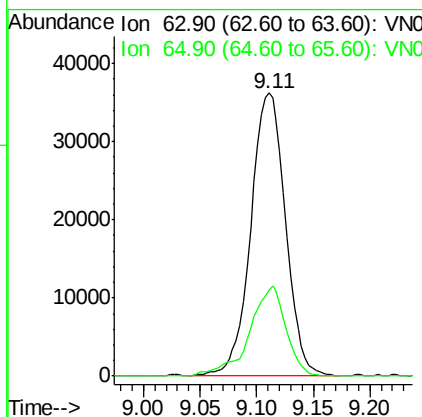
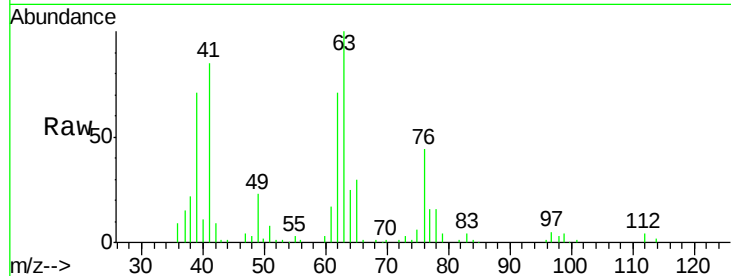
#45
 1,2-Dichloropropane
 Concen: 22.706 ug/l
 RT: 9.11 min Scan# 2282
 Delta R.T. 0.00 min
 Lab File: VN057704.D
 Acq: 5 Sep 2019 18:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion: 63 Resp: 77294
 Ion Ratio Lower Upper
 63 100
 65 30.5 24.5 36.7

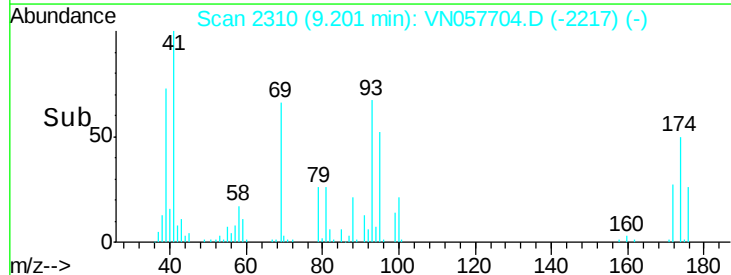
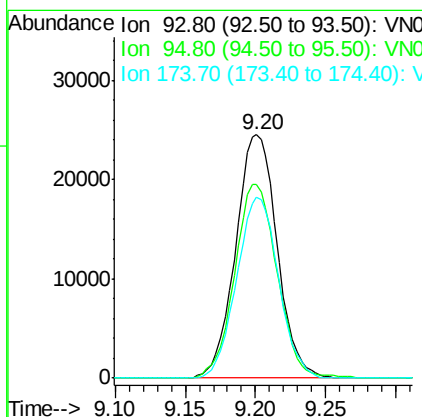
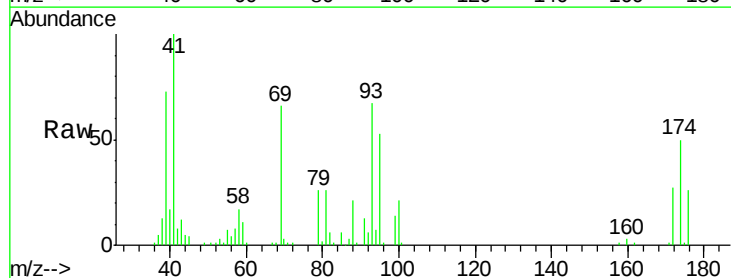
Manual Integrations
 APPROVED

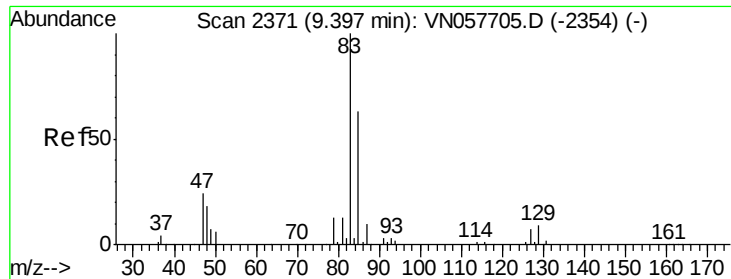
MMDadoda
 9/9/2019 1:10:27 PM



#46
 Dibromomethane
 Concen: 22.807 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. 0.00 min
 Lab File: VN057704.D
 Acq: 5 Sep 2019 18:32

Tgt Ion: 93 Resp: 50569
 Ion Ratio Lower Upper
 93 100
 95 81.7 66.1 99.1
 174 74.7 63.4 95.2





#47

Bromodichloromethane

Concen: 22.391 ug/l

RT: 9.40 min Scan# 2371

Delta R.T. 0.00 min

Lab File: VN057704.D

Acq: 5 Sep 2019 18:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 83 Resp: 102713
Ion Ratio Lower Upper

83 100

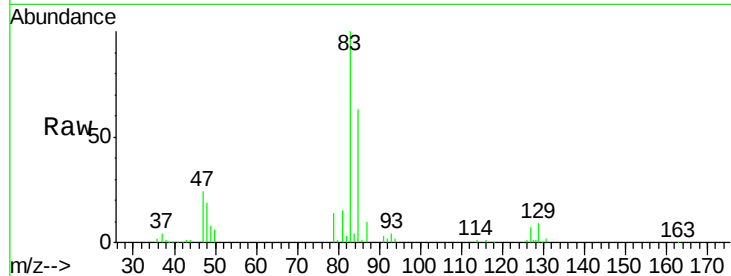
85 62.8 50.7 76.1

127 6.5 5.6 8.4

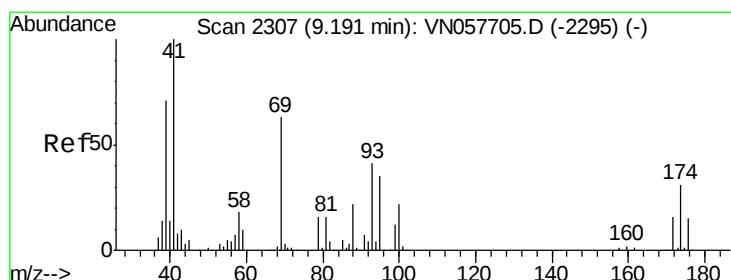
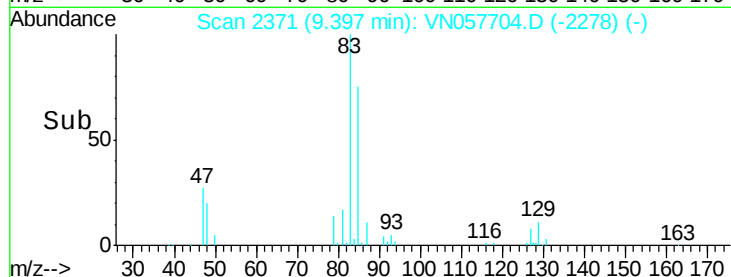
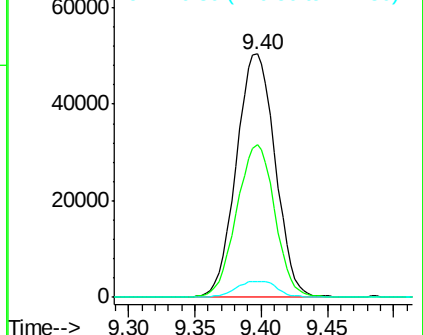
Manual Integrations
APPROVED

MMDadoda

9/9/2019 1:10:27 PM



Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 84.90 (84.60 to 85.60): VNO
Ion 126.80 (126.50 to 127.50): VNO



#48

Methyl methacrylate

Concen: 24.554 ug/l

RT: 9.19 min Scan# 2307

Delta R.T. 0.00 min

Lab File: VN057704.D

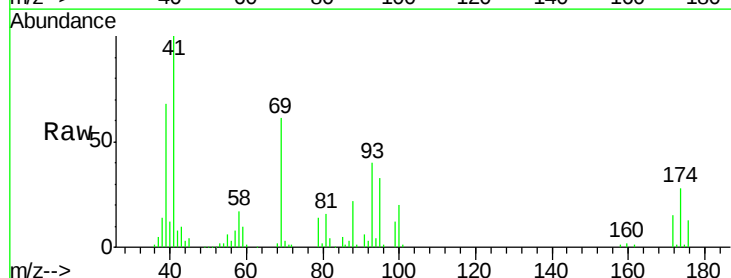
Acq: 5 Sep 2019 18:32

Tgt Ion: 41 Resp: 93058
Ion Ratio Lower Upper

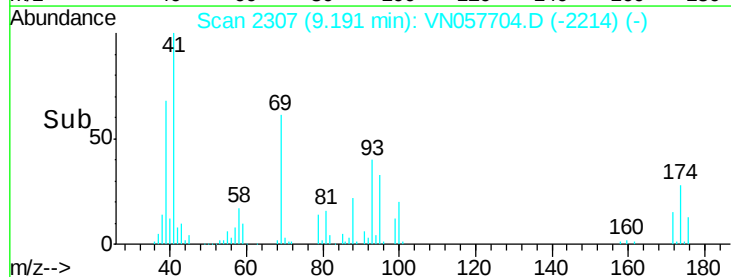
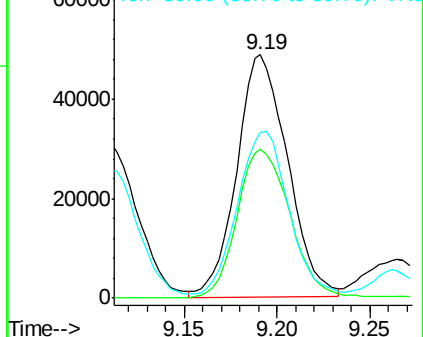
41 100

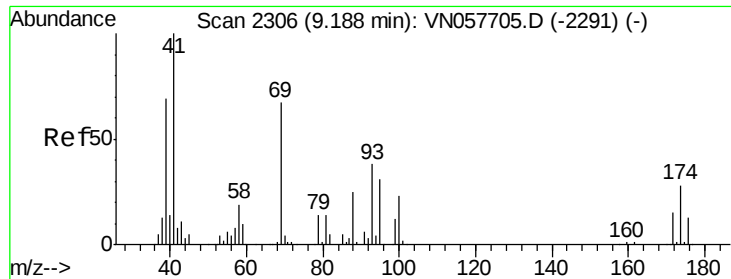
69 64.0 51.2 76.8

39 69.3 57.3 85.9



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 39.00 (38.70 to 39.70): VNO





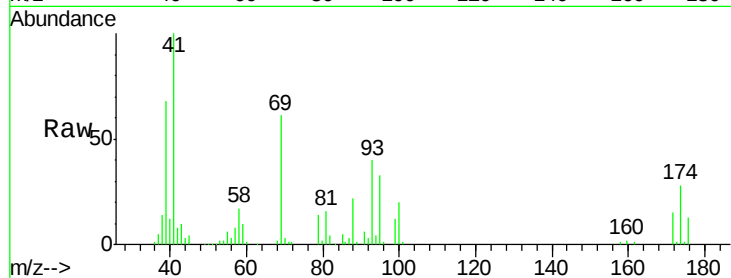
#49
1,4-Dioxane
Concen: 413.537 ug/l
RT: 9.19 min Scan# 2307
Delta R.T. 0.00 min
Lab File: VN057704.D
Acq: 5 Sep 2019 18:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
88	100		
43	47.5	35.4	53.2
58	79.6	61.5	92.3

Manual Integrations
APPROVED

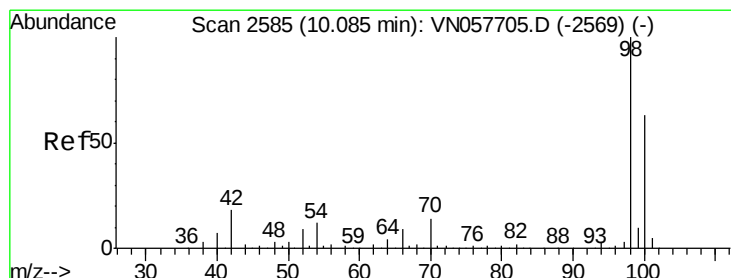
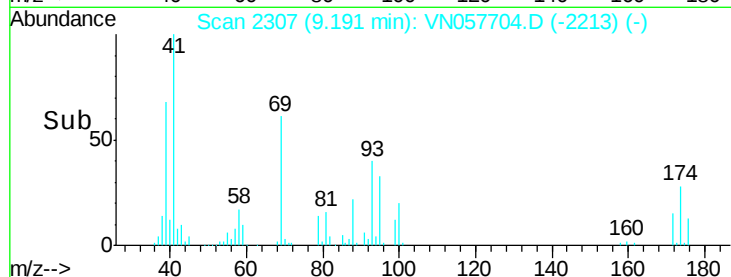
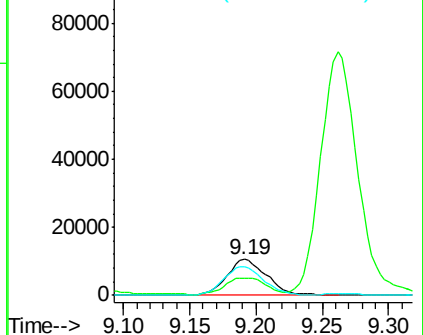
MMDadoda
9/9/2019 1:10:27 PM



Abundance Ion 88.00 (87.70 to 88.70): VN057704.D (-2213) (-)

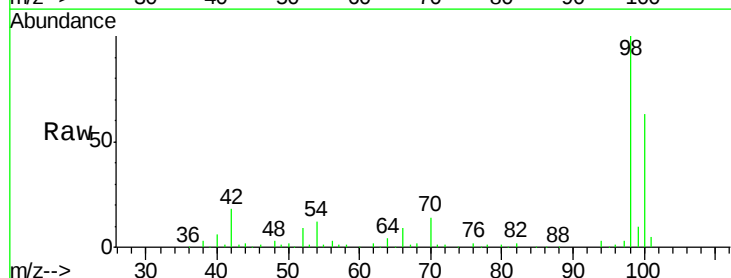
Ion 43.00 (42.70 to 43.70): VN057704.D (-2213) (-)

Ion 58.00 (57.70 to 58.70): VN057704.D (-2213) (-)



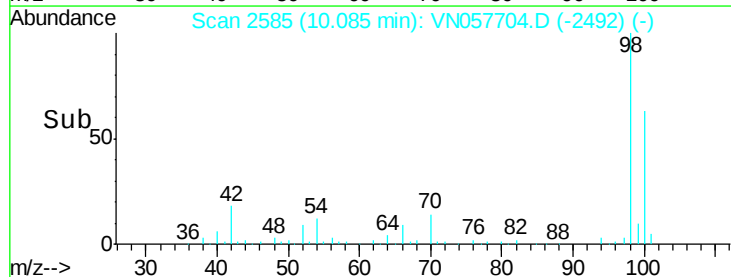
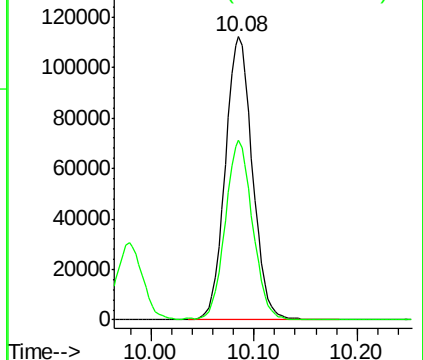
#50
Toluene-d8
Concen: 18.314 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. 0.00 min
Lab File: VN057704.D
Acq: 5 Sep 2019 18:32

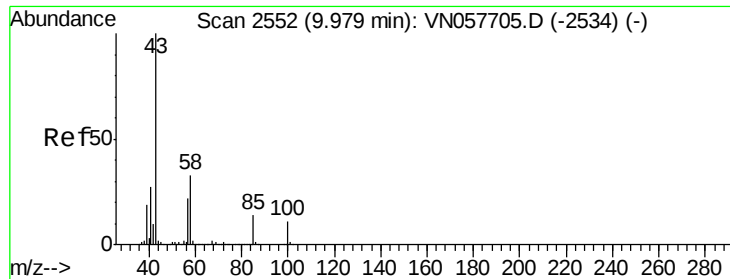
Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.3	50.7	76.1



Abundance Ion 98.00 (97.70 to 98.70): VN057704.D (-2492) (-)

Ion 100.00 (99.70 to 100.70): VN057704.D (-2492) (-)





#51

4-Methyl-2-Pentanone

Concen: 121.726 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN057704.D

Acq: 5 Sep 2019 18:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 527341

Ion Ratio Lower Upper

43 100

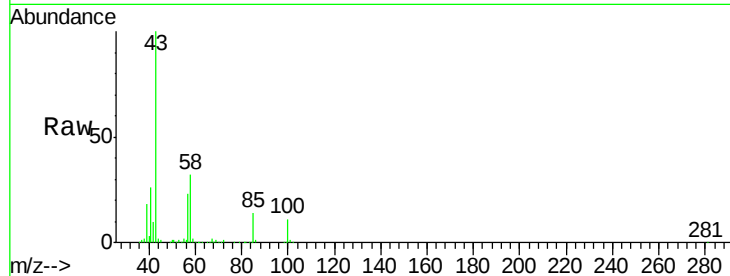
58 32.0 25.8 38.8

Manual Integrations

APPROVED

MMDadoda

9/9/2019 1:10:27 PM



Abundance Ion 43.00 (42.70 to 43.70): VN057705.D (-2534) (-)

Ion 58.00 (57.70 to 58.70): VN057705.D (-2534) (-)

9.98

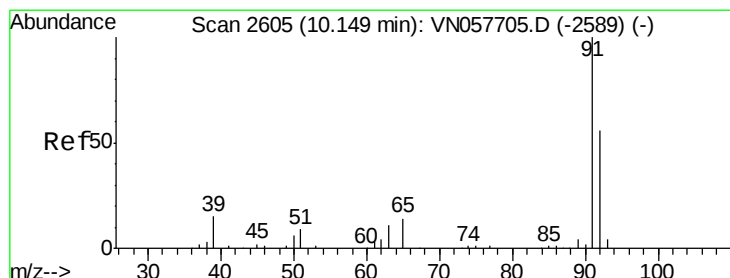
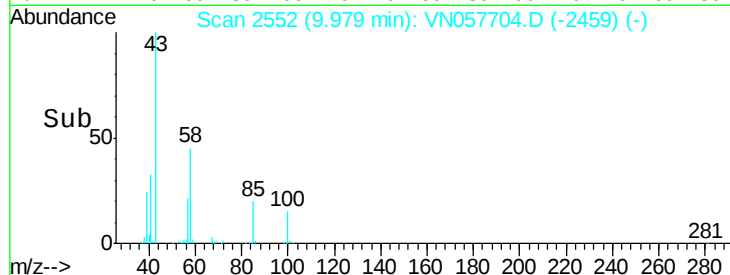
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 21.661 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. 0.00 min

Lab File: VN057704.D

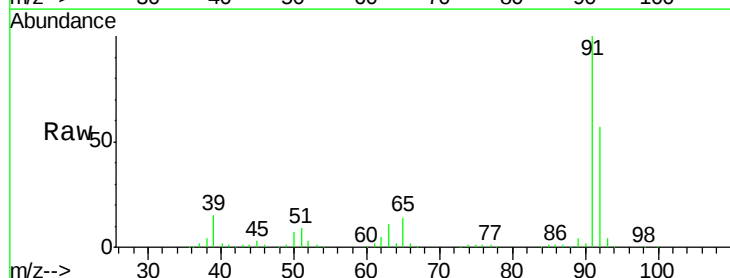
Acq: 5 Sep 2019 18:32

Tgt Ion: 92 Resp: 163514

Ion Ratio Lower Upper

92 100

91 175.8 141.5 212.3



Abundance Ion 92.00 (91.70 to 92.70): VN057705.D (-2589) (-)

Ion 91.00 (90.70 to 91.70): VN057705.D (-2589) (-)

10.15

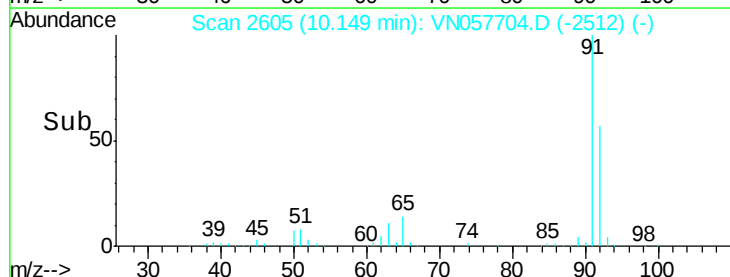
150000

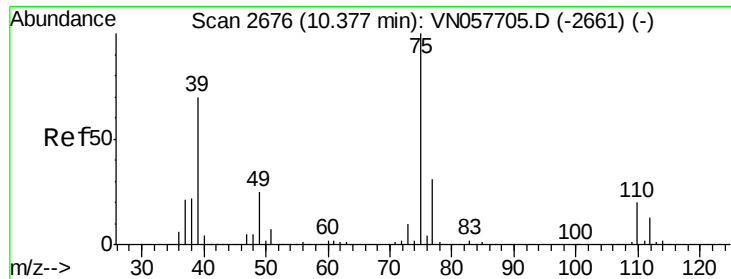
100000

50000

0

Time-->





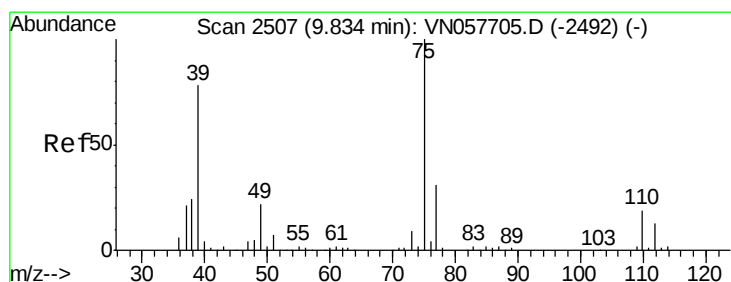
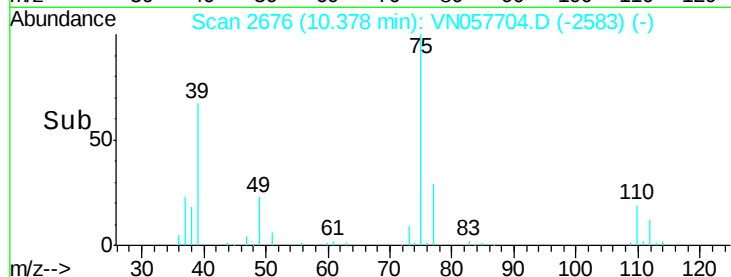
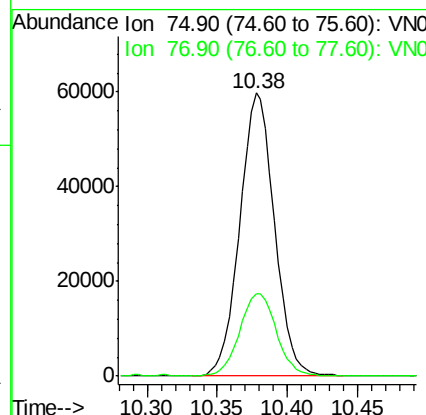
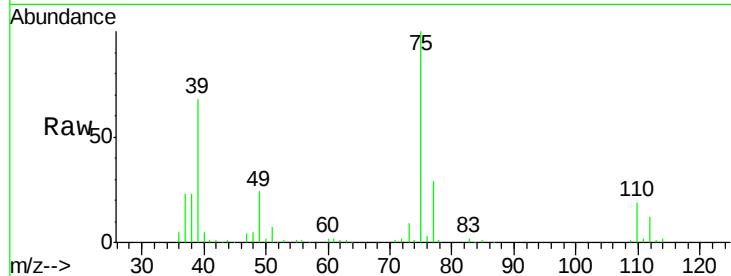
#53
t-1,3-Dichloropropene
Concen: 21.940 ug/l
RT: 10.38 min Scan# 2676
Delta R.T. 0.00 min
Lab File: VN057704.D
Acq: 5 Sep 2019 18:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
75	100		
77	29.1	25.1	37.7

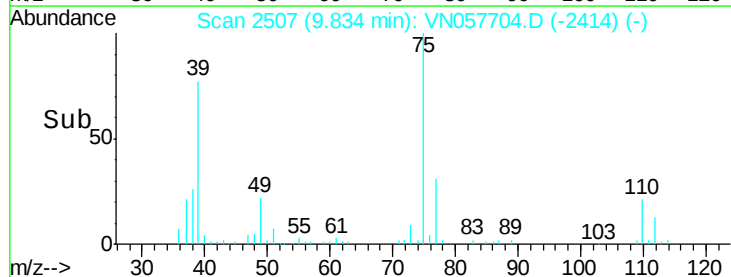
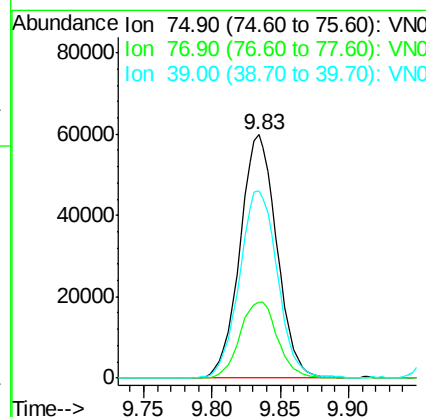
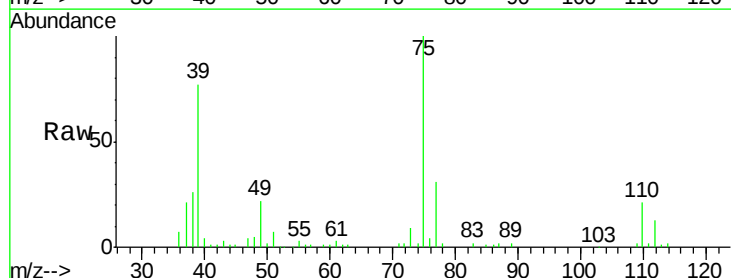
Manual Integrations
APPROVED

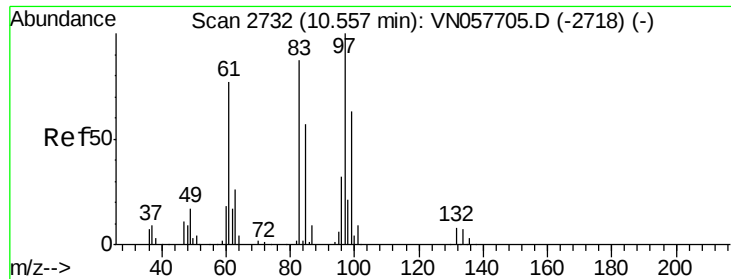
MMDadoda
9/9/2019 1:10:27 PM



#54
cis-1,3-Dichloropropene
Concen: 21.901 ug/l
RT: 9.83 min Scan# 2507
Delta R.T. 0.00 min
Lab File: VN057704.D
Acq: 5 Sep 2019 18:32

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.2	25.1	37.7
39	77.2	62.4	93.6





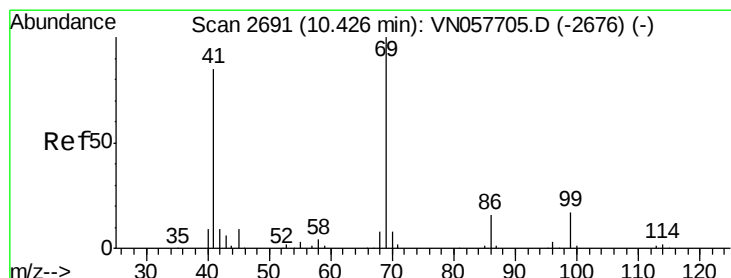
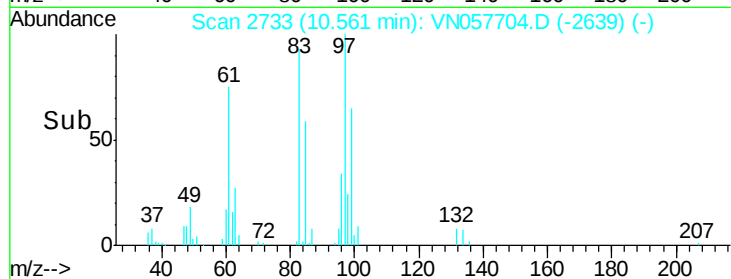
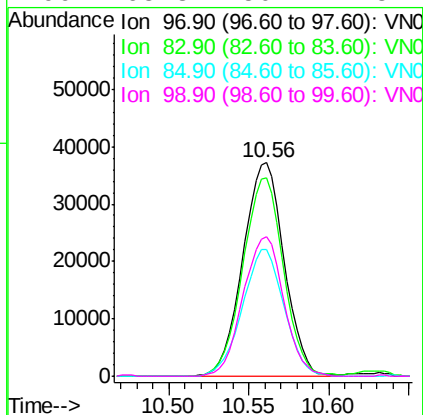
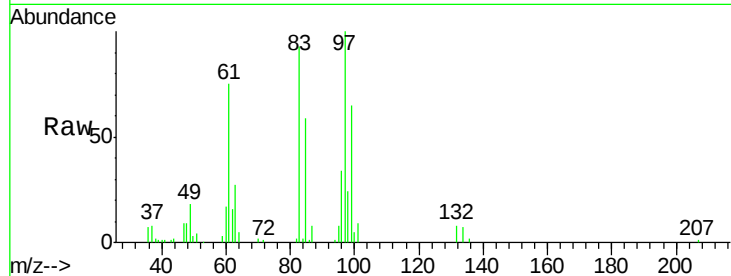
#55
 1,1,2-Trichloroethane
 Concen: 21.849 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN057704.D
 Acq: 5 Sep 2019 18:32

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC020

Tot Ion:	97	Resp:	65707
Ion	Ratio	Lower	Upper
97	100		
83	92.9	69.5	104.3
85	59.4	45.7	68.5
99	65.3	50.2	75.4

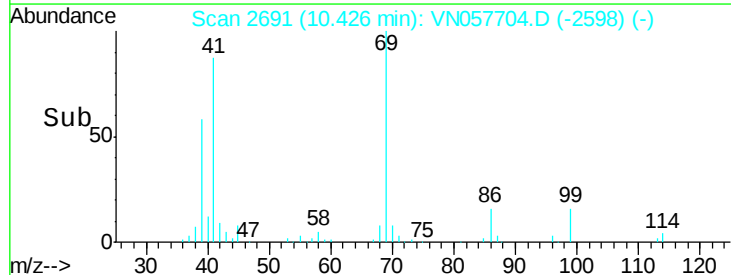
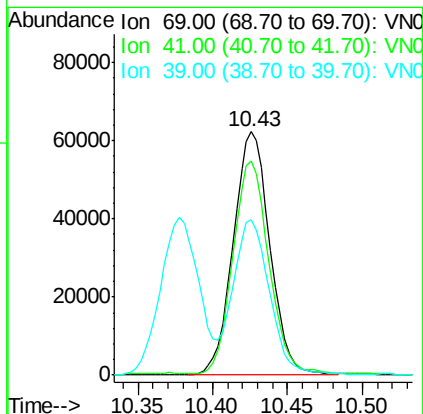
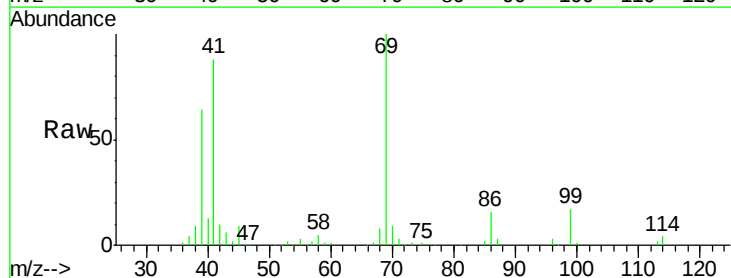
Manual Integrations
 APPROVED

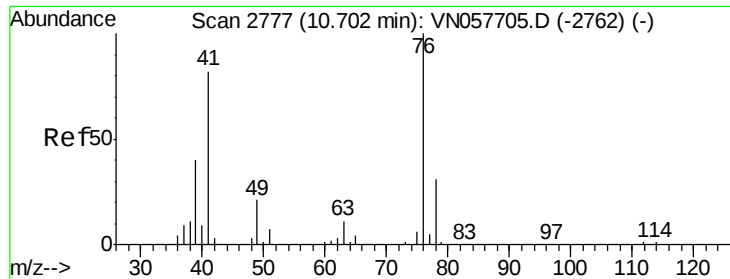
MMDadoda
 9/9/2019 1:10:27 PM



#56
 Ethyl methacrylate
 Concen: 22.963 ug/l
 RT: 10.43 min Scan# 2691
 Delta R.T. 0.00 min
 Lab File: VN057704.D
 Acq: 5 Sep 2019 18:32

Tgt Ion:	69	Resp:	106144
Ion	Ratio	Lower	Upper
69	100		
41	85.7	69.0	103.4
39	63.7	49.2	73.8





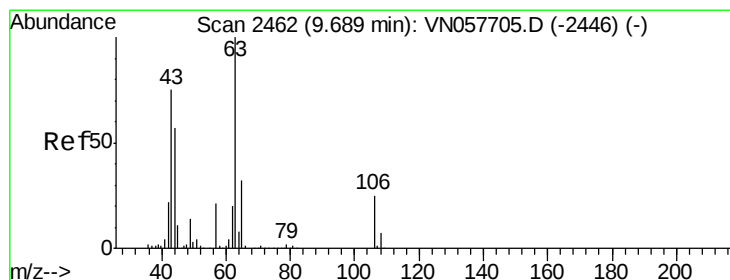
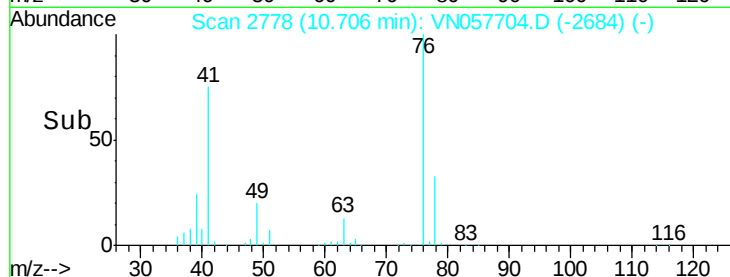
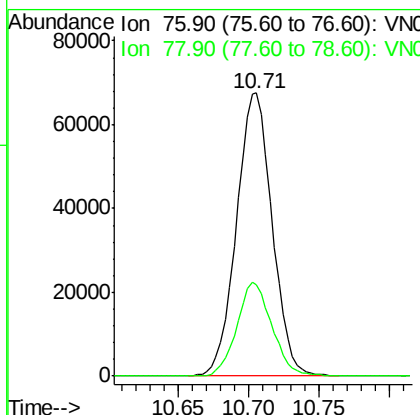
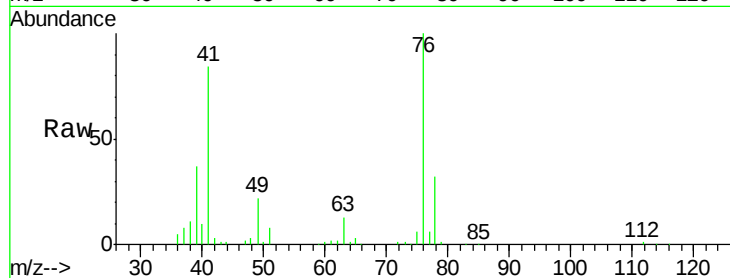
#57
 1,3-Dichloropropane
 Concen: 22.513 ug/l
 RT: 10.71 min Scan# 2778
 Delta R.T. 0.00 min
 Lab File: VN057704.D
 Acq: 5 Sep 2019 18:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion: 76 Resp: 119484
 Ion Ratio Lower Upper
 76 100
 78 32.7 25.5 38.3

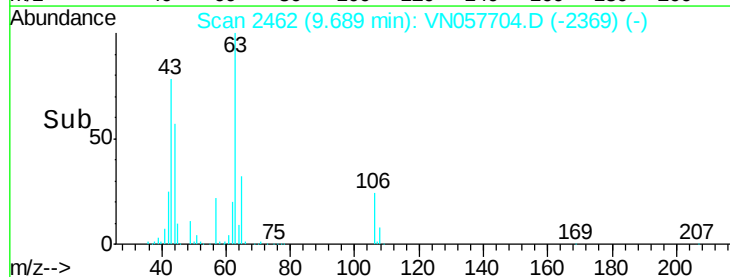
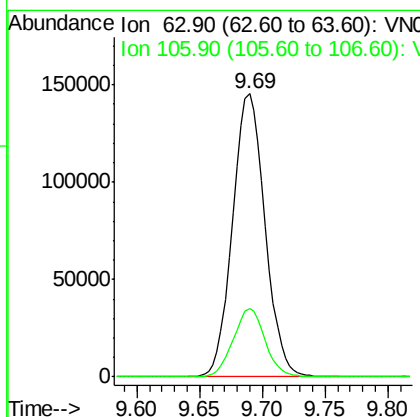
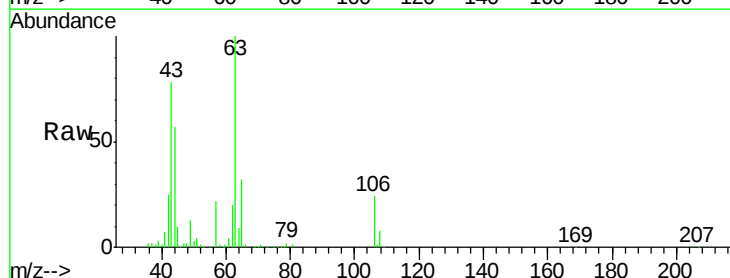
Manual Integrations
 APPROVED

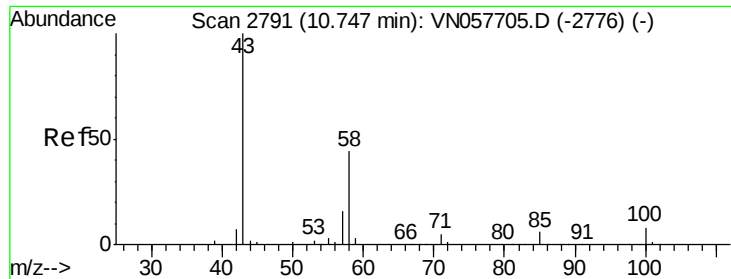
MMDadoda
 9/9/2019 1:10:27 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 159.300 ug/l
 RT: 9.69 min Scan# 2462
 Delta R.T. 0.00 min
 Lab File: VN057704.D
 Acq: 5 Sep 2019 18:32

Tgt Ion: 63 Resp: 261677
 Ion Ratio Lower Upper
 63 100
 106 23.7 19.4 29.2





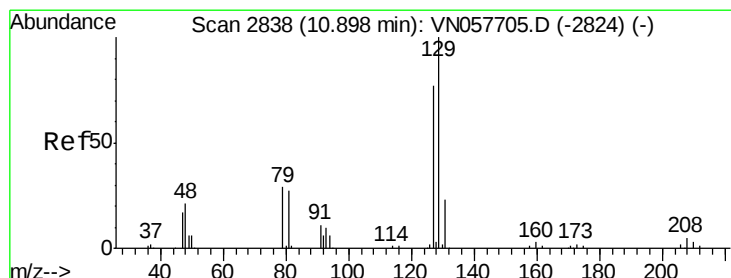
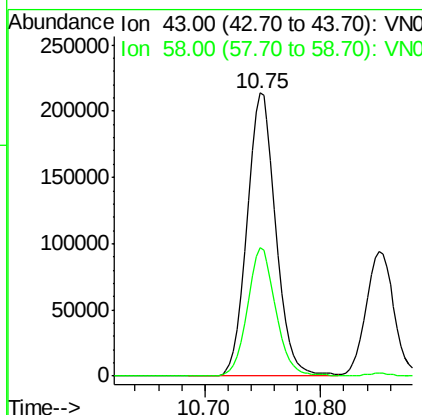
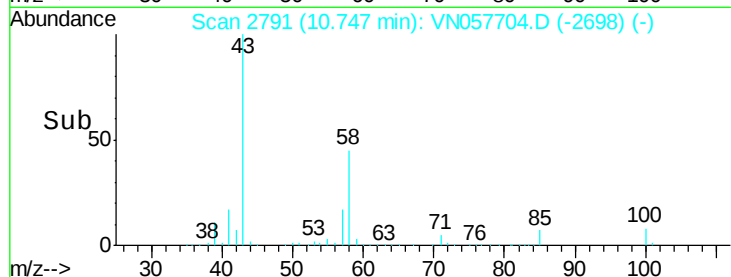
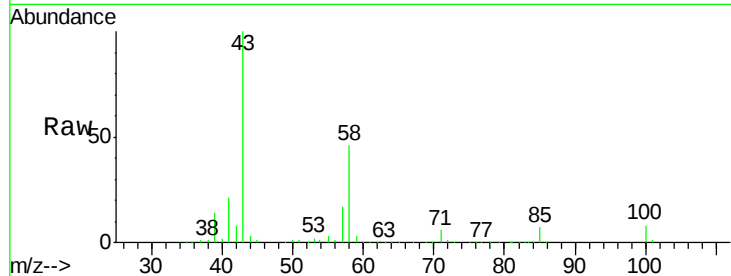
#59
2-Hexanone
Concen: 121.598 ug/l
RT: 10.75 min Scan# 2791
Delta R.T. 0.00 min
Lab File: VN057704.D
Acq: 5 Sep 2019 18:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion: 43 Resp: 369282
Ion Ratio Lower Upper
43 100
58 44.8 22.1 66.5

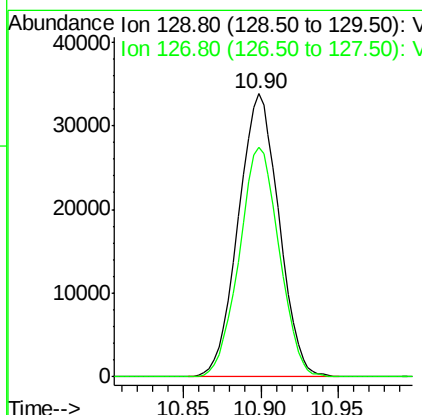
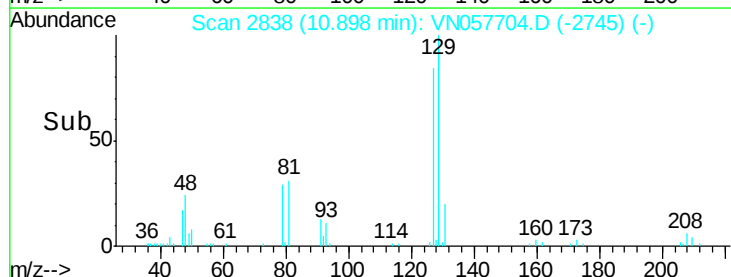
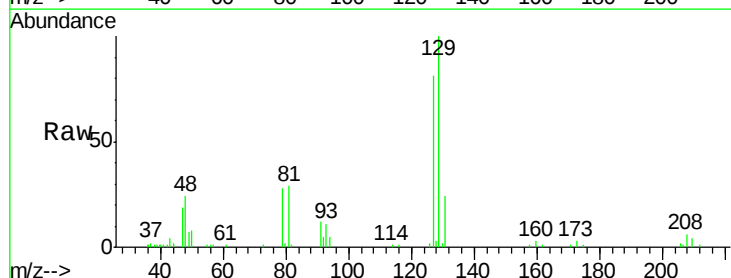
Manual Integrations
APPROVED

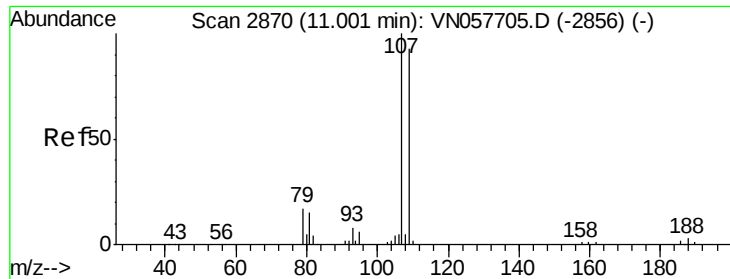
MMDadoda
9/9/2019 1:10:27 PM



#60
Dibromochloromethane
Concen: 20.884 ug/l
RT: 10.90 min Scan# 2838
Delta R.T. 0.00 min
Lab File: VN057704.D
Acq: 5 Sep 2019 18:32

Tgt Ion: 129 Resp: 61636
Ion Ratio Lower Upper
129 100
127 80.1 38.4 115.2





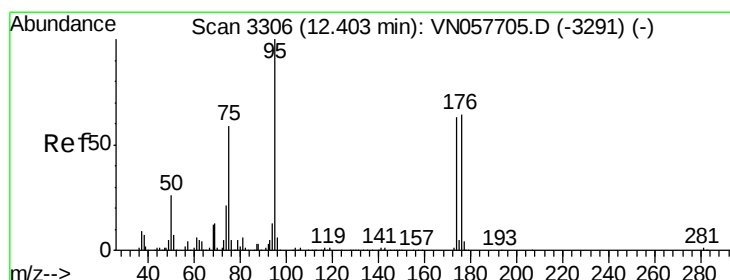
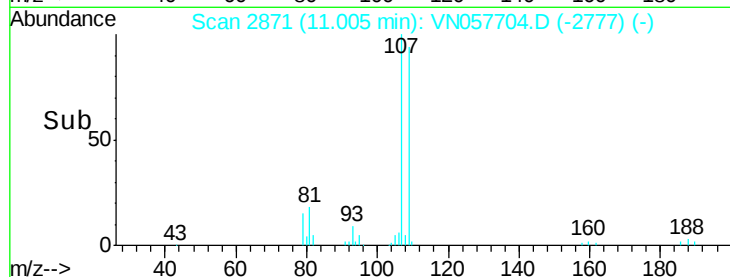
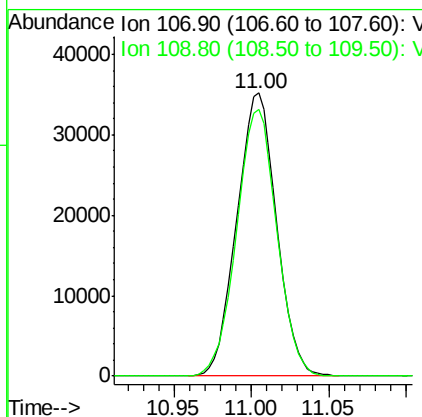
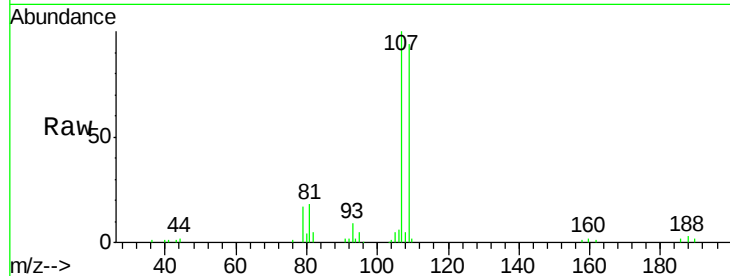
#61
 1,2-Dibromoethane
 Concen: 21.309 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. 0.00 min
 Lab File: VN057704.D
 Acq: 5 Sep 2019 18:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion:107 Resp: 62749
 Ion Ratio Lower Upper
 107 100
 109 95.4 74.6 112.0

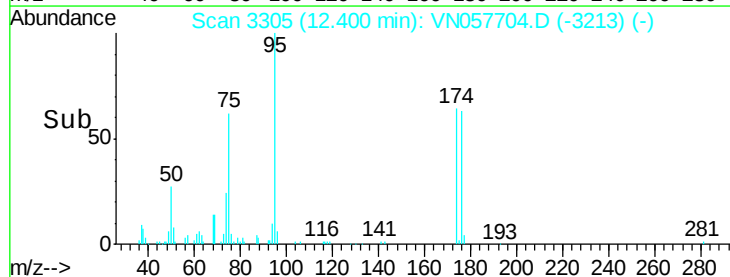
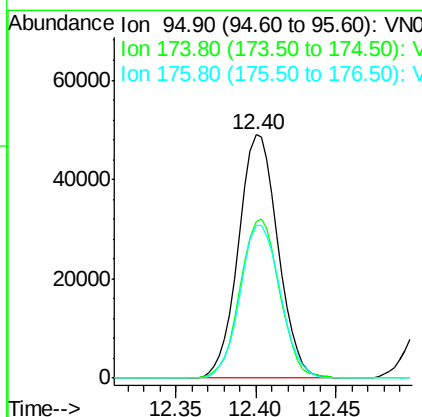
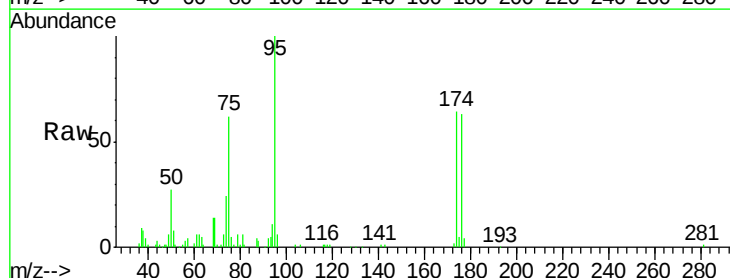
Manual Integrations
 APPROVED

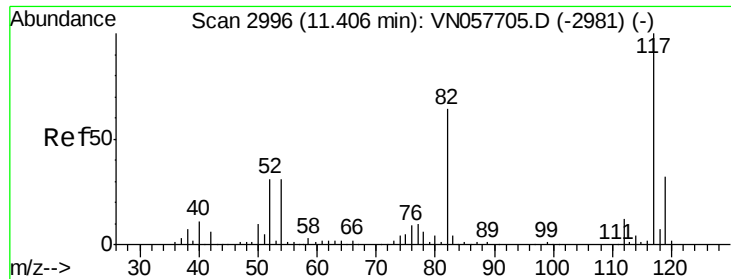
MMDadoda
 9/9/2019 1:10:27 PM



#62
 4-Bromofluorobenzene
 Concen: 19.266 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN057704.D
 Acq: 5 Sep 2019 18:32

Tgt Ion: 95 Resp: 82384
 Ion Ratio Lower Upper
 95 100
 174 65.4 0.0 128.0
 176 64.3 0.0 128.0





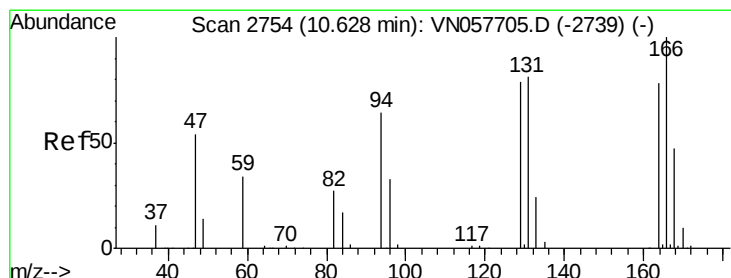
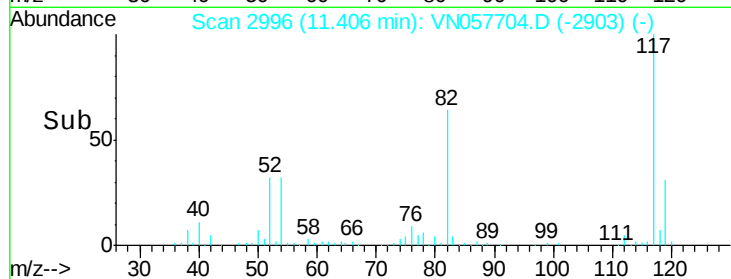
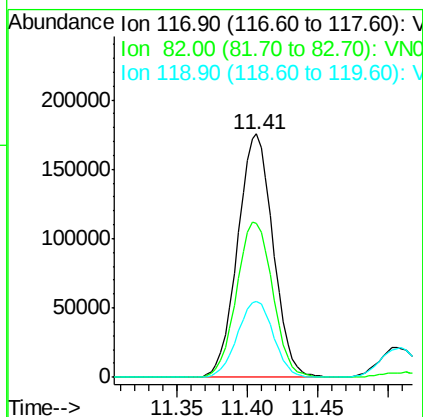
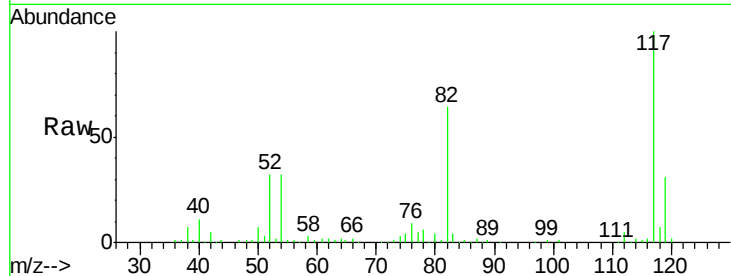
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN057704.D
Acq: 5 Sep 2019 18:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
117	100		
82	63.5	51.4	77.0
119	31.4	25.4	38.2

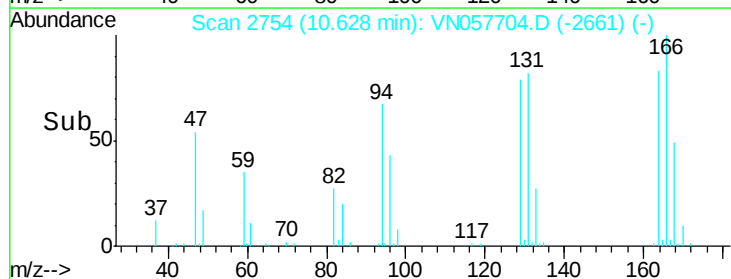
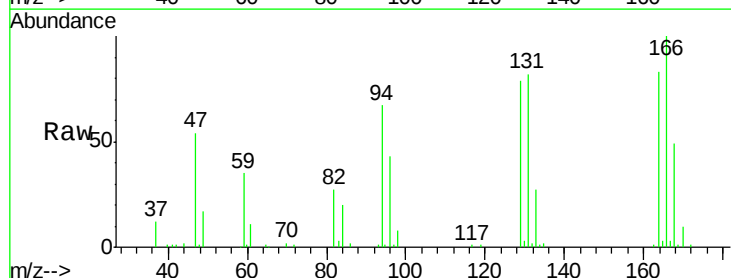
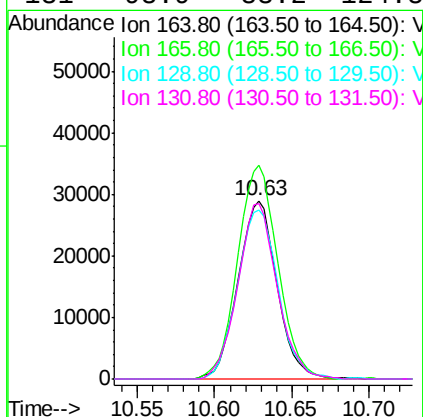
Manual Integrations
APPROVED

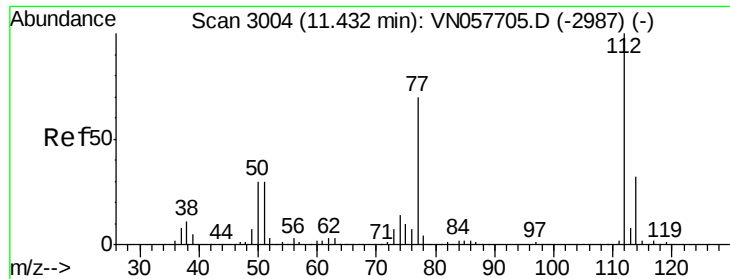
MMDadoda
9/9/2019 1:10:27 PM



#64
Tetrachloroethene
Concen: 18.997 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. 0.00 min
Lab File: VN057704.D
Acq: 5 Sep 2019 18:32

Tgt Ion	Ratio	Lower	Upper
164	100		
166	120.0	103.0	154.6
129	95.0	81.1	121.7
131	98.9	83.2	124.8





#65

Chlorobenzene

Concen: 21.170 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN057704.D

Acq: 5 Sep 2019 18:32

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion:112 Resp: 165885

Ion Ratio Lower Upper

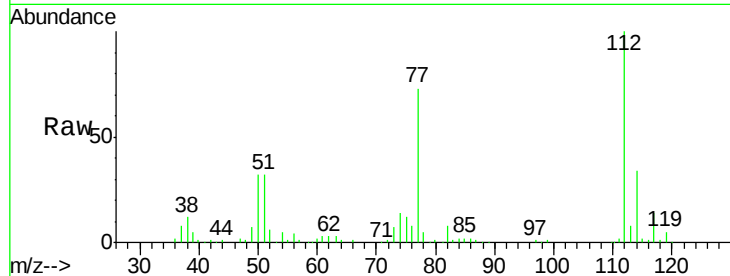
112 100

114 34.2 25.8 38.8

Manual Integrations
APPROVED

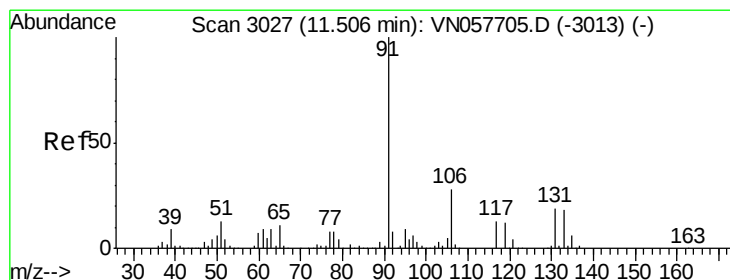
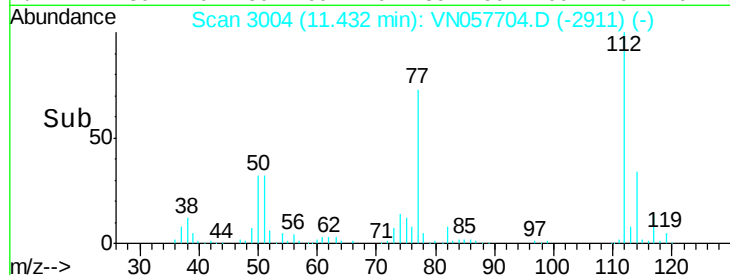
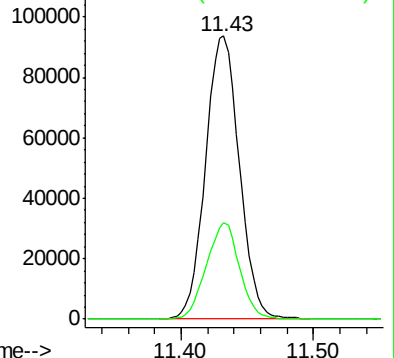
MMDadoda

9/9/2019 1:10:27 PM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 20.860 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN057704.D

Acq: 5 Sep 2019 18:32

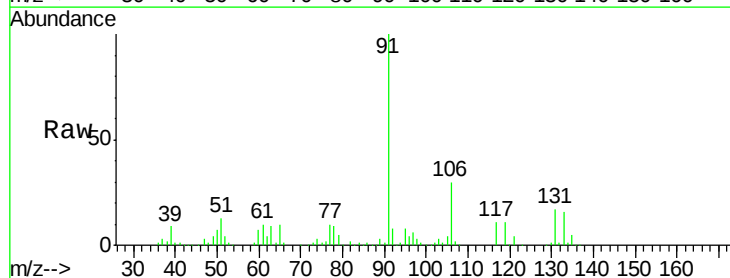
Tgt Ion:131 Resp: 59405

Ion Ratio Lower Upper

131 100

133 95.4 47.6 142.9

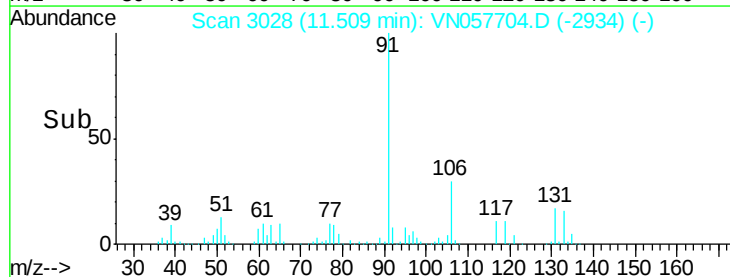
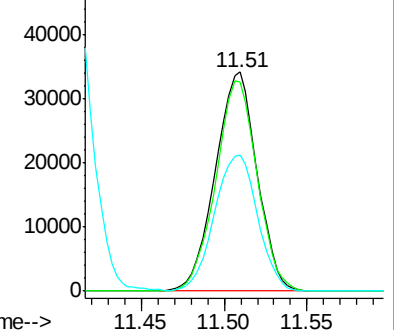
119 64.5 32.8 98.3

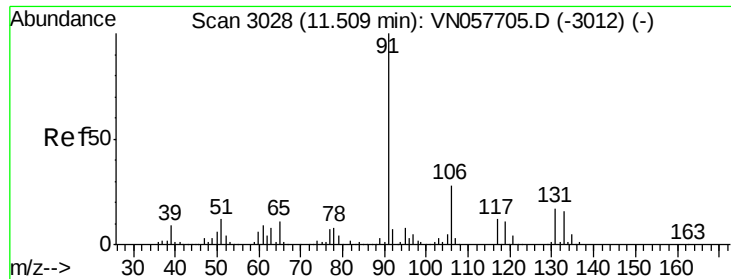


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





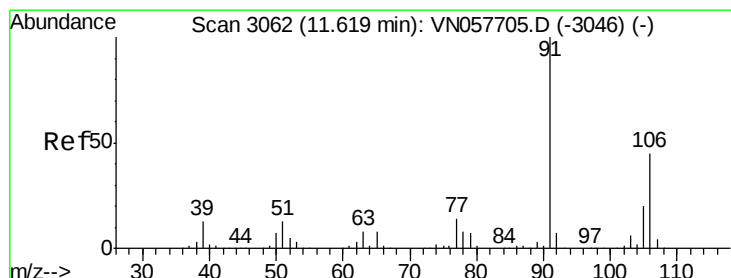
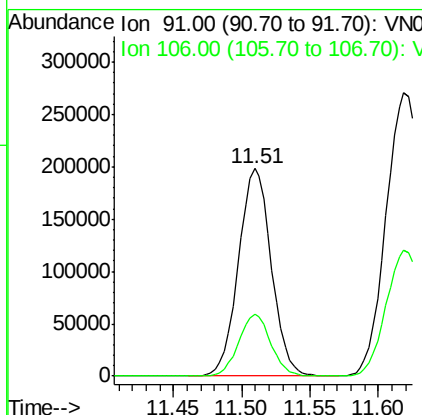
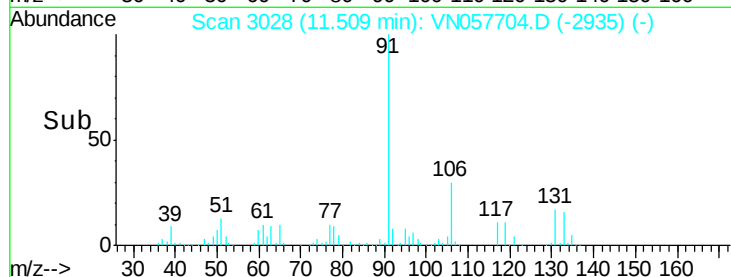
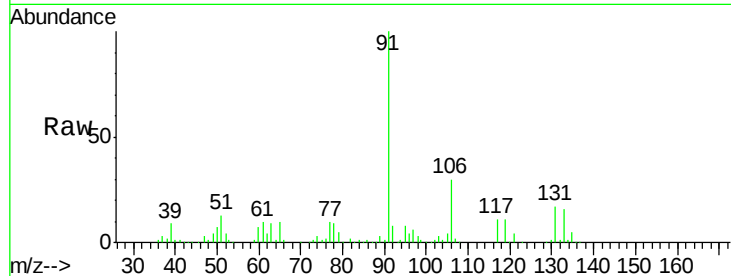
#67
Ethyl Benzene
Concen: 22.173 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN057704.D
Acq: 5 Sep 2019 18:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion: 91 Resp: 331676
Ion Ratio Lower Upper
91 100
106 29.6 22.8 34.2

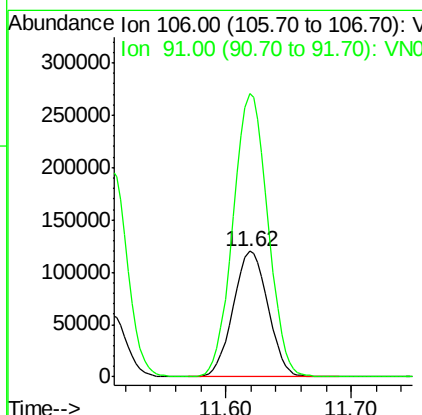
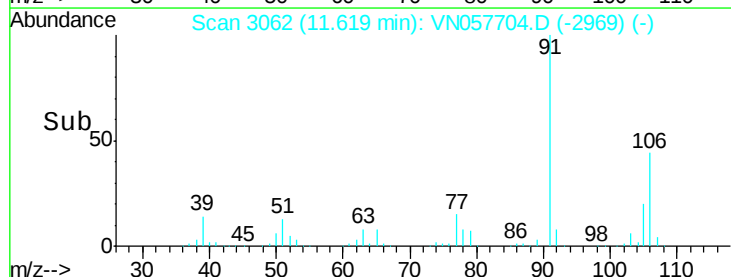
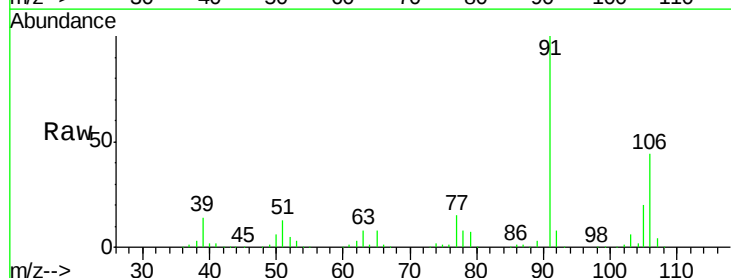
Manual Integrations
APPROVED

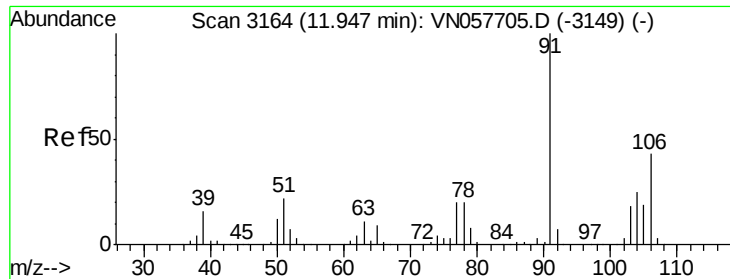
MMDadoda
9/9/2019 1:10:27 PM



#68
m/p-Xylenes
Concen: 45.011 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN057704.D
Acq: 5 Sep 2019 18:32

Tgt Ion: 106 Resp: 231942
Ion Ratio Lower Upper
106 100
91 224.1 179.8 269.8





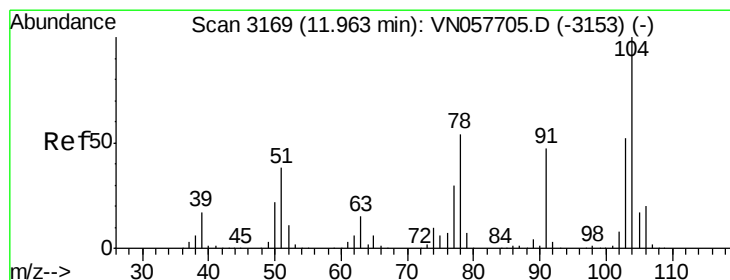
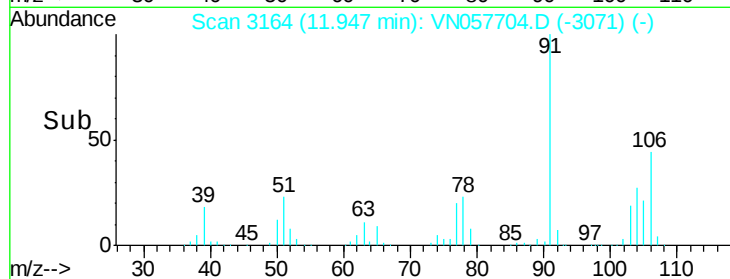
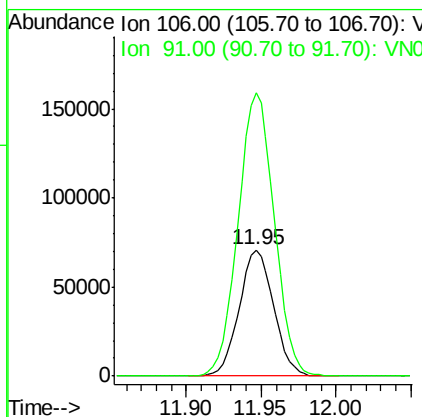
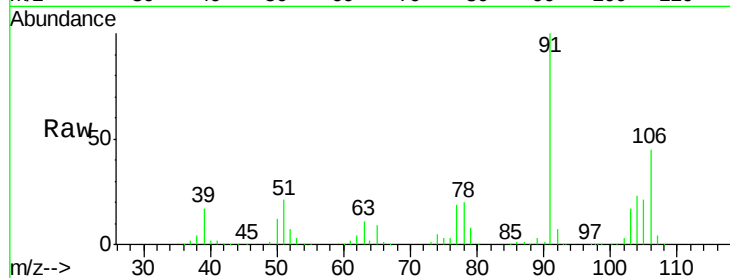
#69
o-Xylene
Concen: 22.130 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN057704.D
Acq: 5 Sep 2019 18:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion:106 Resp: 113638
Ion Ratio Lower Upper
106 100
91 234.9 116.8 350.4

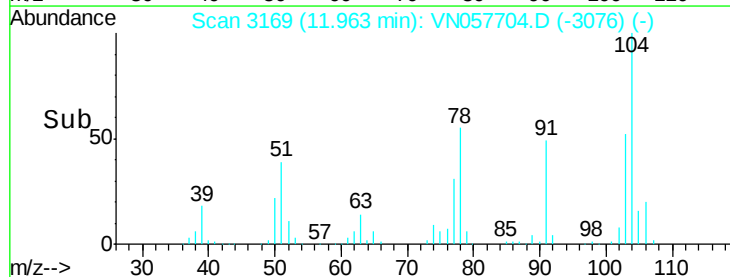
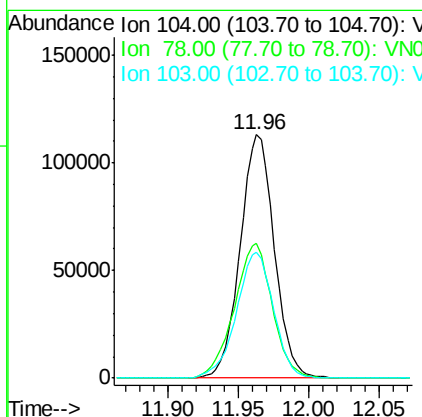
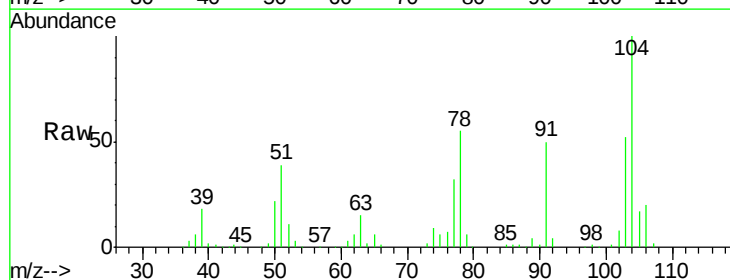
Manual Integrations
APPROVED

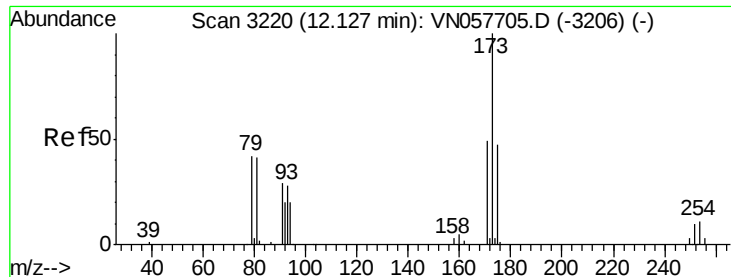
MMDadoda
9/9/2019 1:10:27 PM



#70
Styrene
Concen: 23.514 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN057704.D
Acq: 5 Sep 2019 18:32

Tgt Ion:104 Resp: 192358
Ion Ratio Lower Upper
104 100
78 61.5 48.5 72.7
103 56.2 45.0 67.4





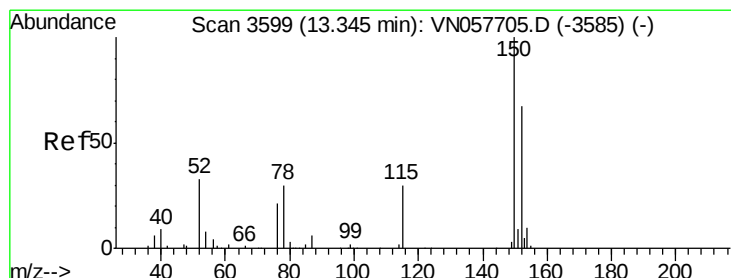
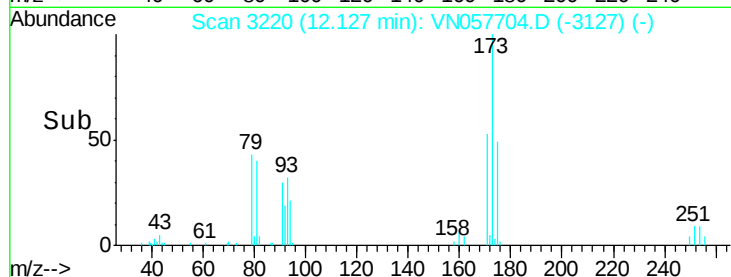
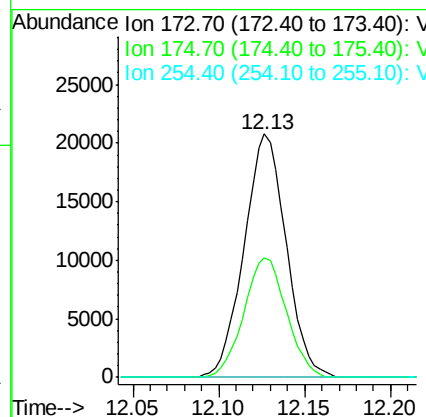
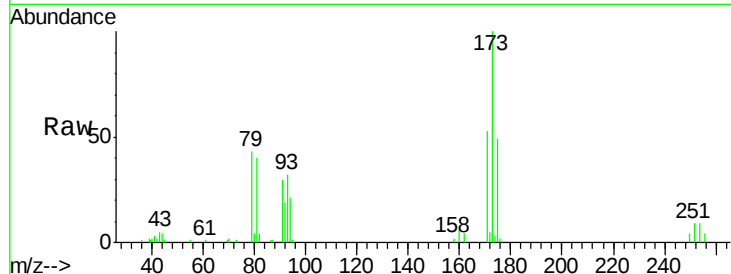
#71
Bromoform
Concen: 19.756 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN057704.D
Acq: 5 Sep 2019 18:32

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.9	24.6	73.8
254	0.0	0.0	0.0

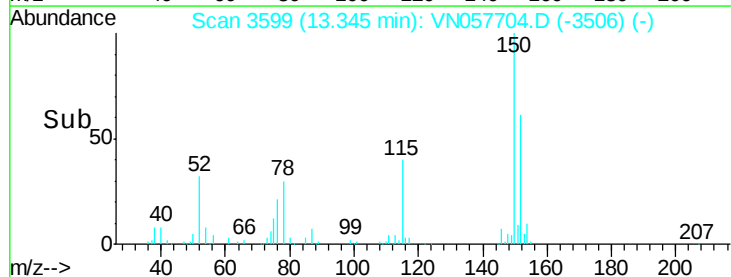
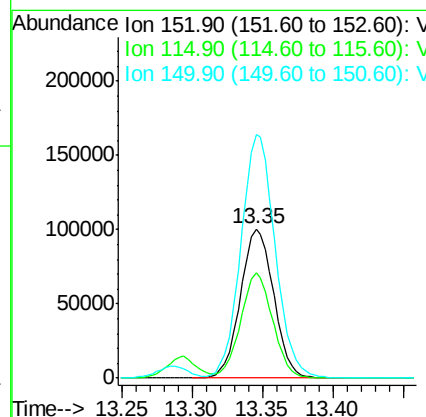
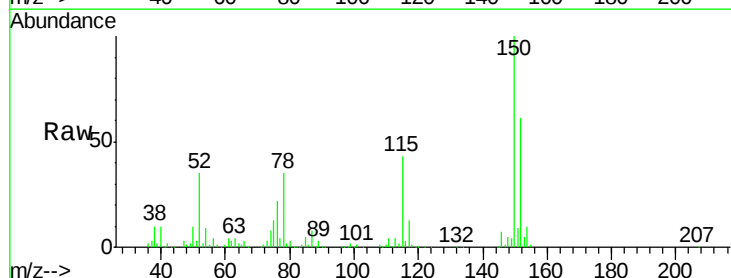
Manual Integrations
APPROVED

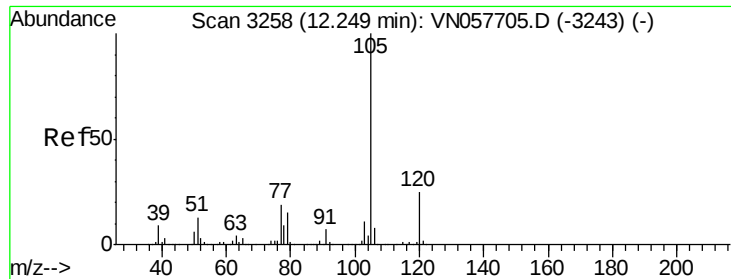
MMDadoda
9/9/2019 1:10:27 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN057704.D
Acq: 5 Sep 2019 18:32

Tgt Ion	Ratio	Lower	Upper
152	100		
115	68.0	33.8	101.3
150	168.1	0.0	345.4





#73

Isopropylbenzene

Concen: 16.198 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN057704.D

Acq: 5 Sep 2019 18:32

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion: 105 Resp: 322659

Ion Ratio Lower Upper

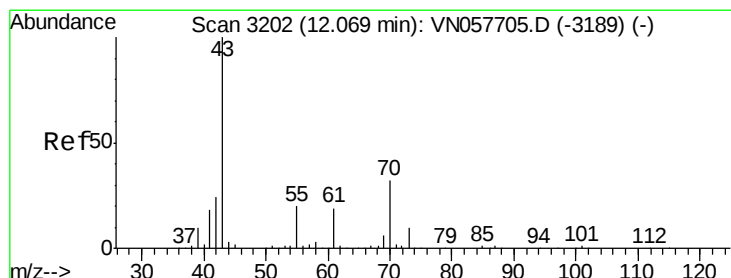
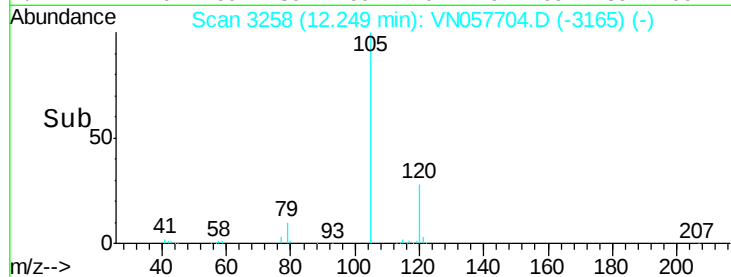
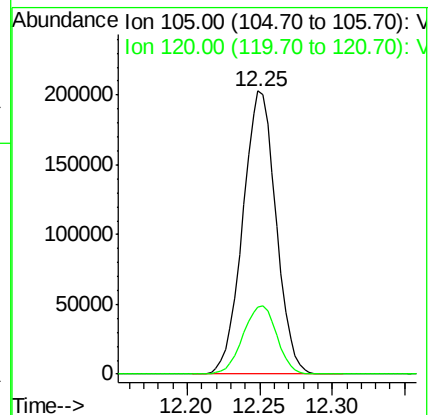
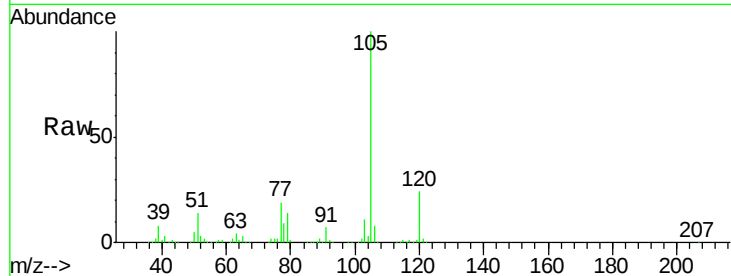
105 100

120 24.6 12.2 36.6

Manual Integrations
APPROVED

MMDadoda

9/9/2019 1:10:27 PM



#74

N-ethyl acetate

Concen: 19.293 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN057704.D

Acq: 5 Sep 2019 18:32

Tgt Ion: 43 Resp: 159686

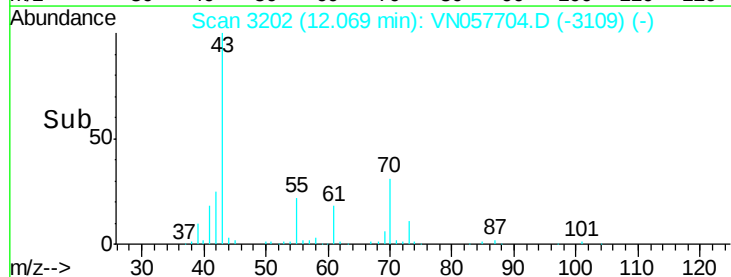
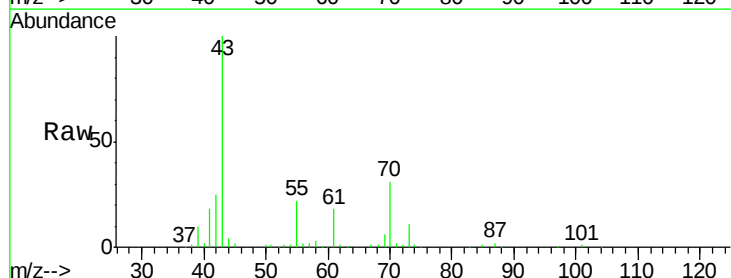
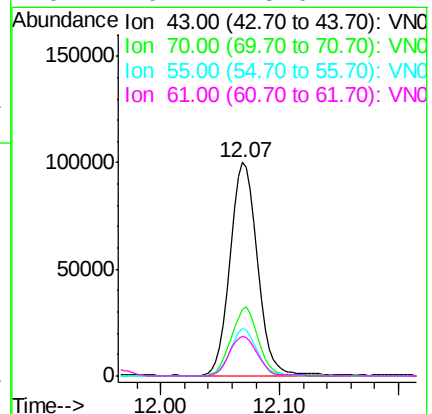
Ion Ratio Lower Upper

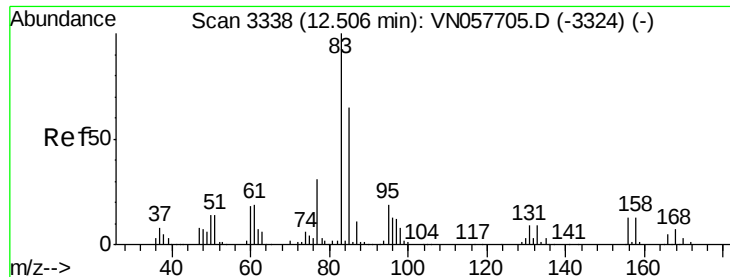
43 100

70 32.0 26.1 39.1

55 21.6 16.3 24.5

61 19.4 15.0 22.4





#75

1,1,2,2-Tetrachloroethane

Concen: 18.376 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN057704.D

Acq: 5 Sep 2019 18:32

Instrument :

MSVOA_N

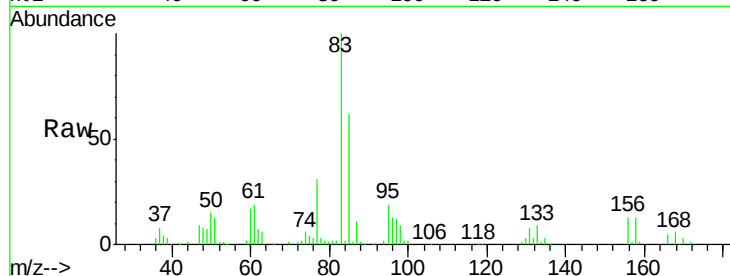
ClientSampleId :

VSTDIC020

Tot Ion:	83	Resp:	99223
Ion Ratio	Lower	Upper	
83	100		
131	8.9	4.5	13.5
85	62.6	31.8	95.3

Manual Integrations
APPROVED

MMDadoda
9/9/2019 1:10:27 PM



Abundance Ion 82.90 (82.60 to 83.60): VN057705.D (-3324) (-)

Ion 130.80 (130.50 to 131.50): VN057705.D (-3324) (-)

Ion 84.90 (84.60 to 85.60): VN057705.D (-3324) (-)

Time-->

12.51

60000

40000

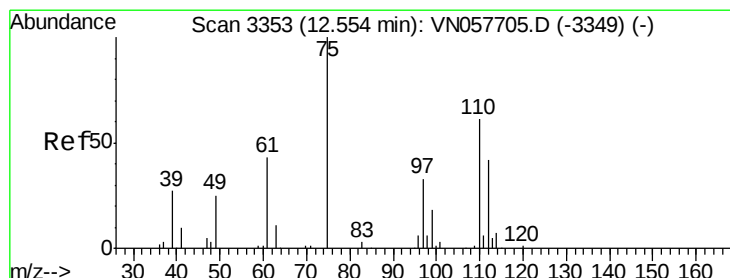
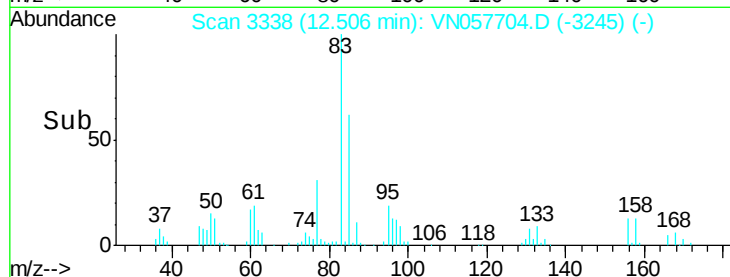
20000

0

12.45

12.50

12.55



#76

1,2,3-Trichloropropane

Concen: 17.269 ug/l m

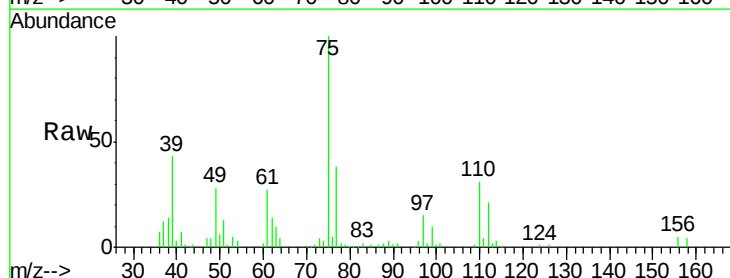
RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VN057704.D

Acq: 5 Sep 2019 18:32

Tgt Ion:	75	Resp:	78763
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VN057705.D (-3349) (-)

Ion 77.00 (76.70 to 77.70): VN057705.D (-3349) (-)

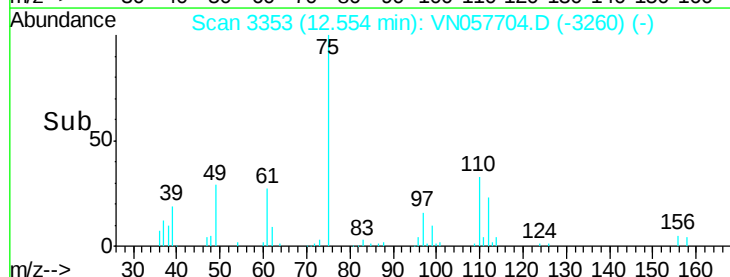
Time-->

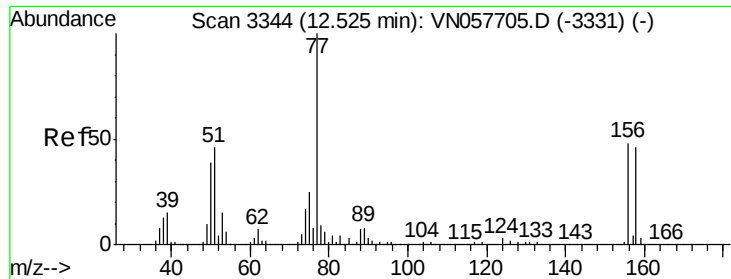
12.52

12.54

12.56

12.58





#77

Bromobenzene

Concen: 16.360 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. 0.00 min

Lab File: VN057704.D

Acq: 5 Sep 2019 18:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:156 Resp: 69538

Ion Ratio Lower Upper

156 100

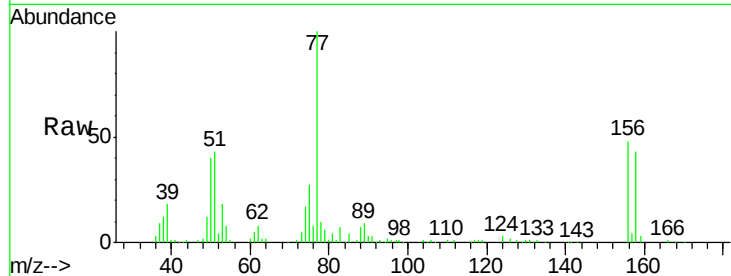
77 248.7 125.4 376.2

158 94.8 49.3 147.9

Manual Integrations
APPROVED

MMDadoda

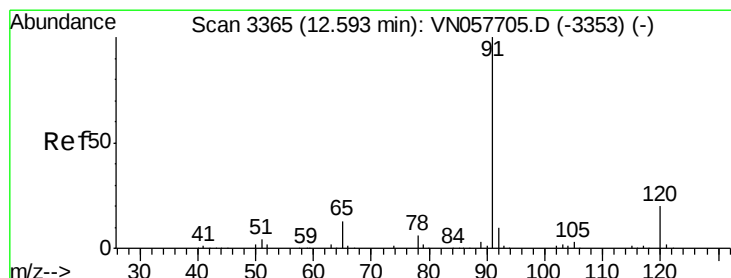
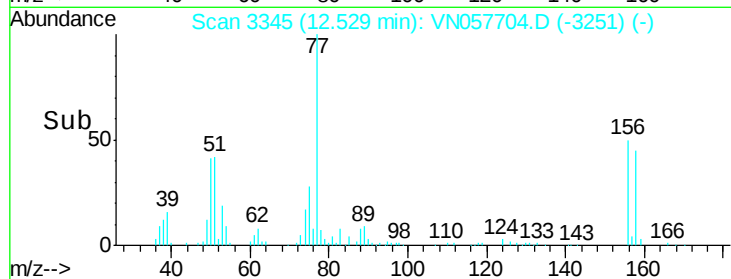
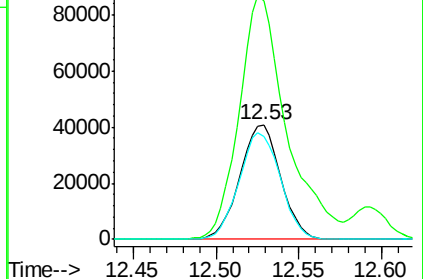
9/9/2019 1:10:27 PM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 17.616 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN057704.D

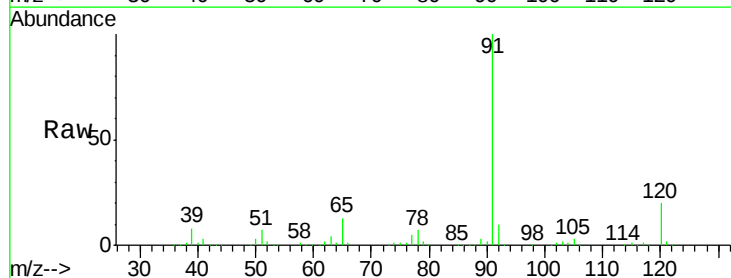
Acq: 5 Sep 2019 18:32

Tgt Ion: 91 Resp: 382792

Ion Ratio Lower Upper

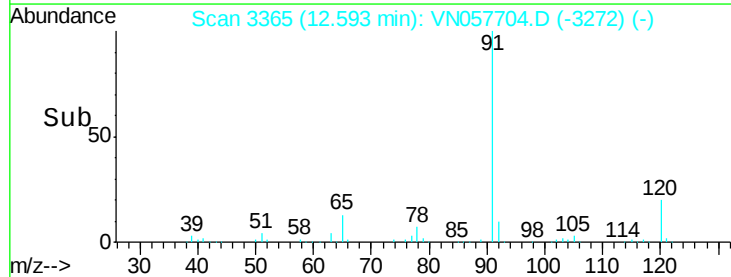
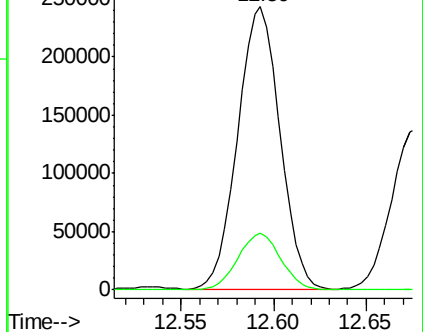
91 100

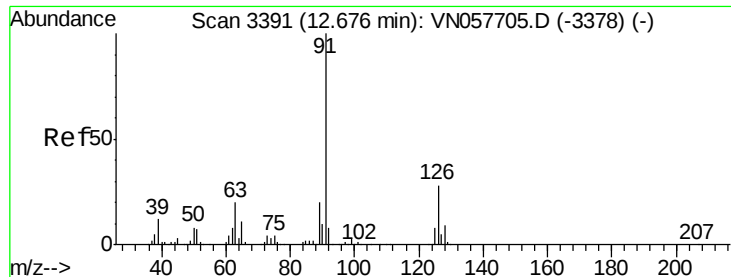
120 20.4 10.0 30.0



Abundance Ion 91.00 (90.70 to 91.70): VN

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 17.079 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN057704.D

Acq: 5 Sep 2019 18:32

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion: 91 Resp: 228962

Ion Ratio Lower Upper

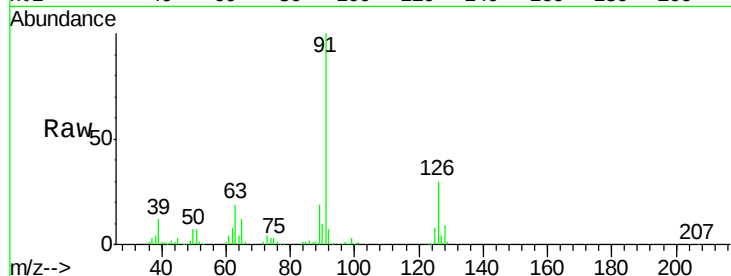
91 100

126 29.4 14.5 43.5

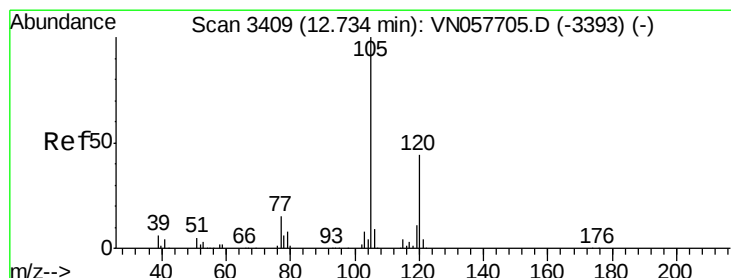
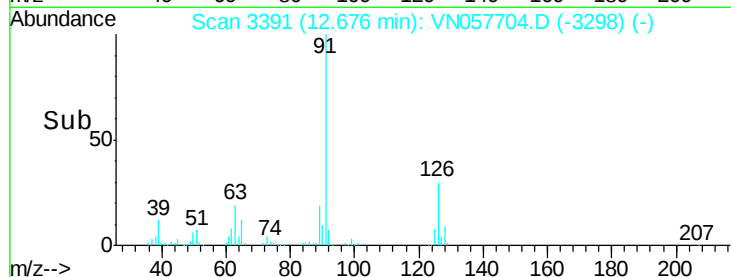
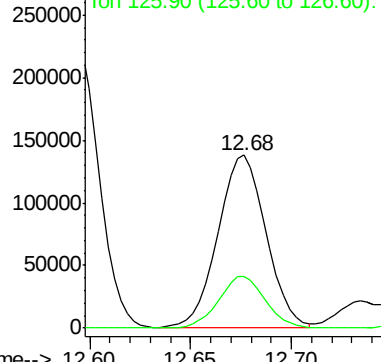
Manual Integrations
APPROVED

MMDadoda

9/9/2019 1:10:27 PM



Abundance Ion 91.00 (90.70 to 91.70): VN057705.D (-3378) (-)



#80

1,3,5-Trimethylbenzene

Concen: 16.913 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN057704.D

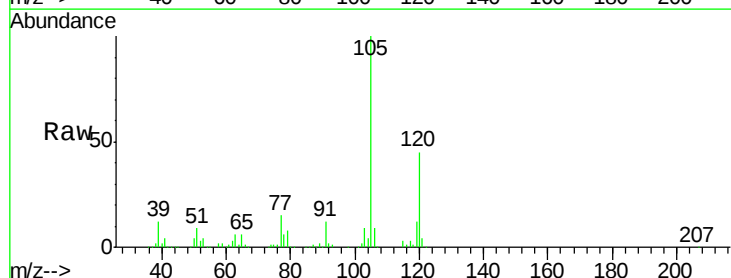
Acq: 5 Sep 2019 18:32

Tgt Ion: 105 Resp: 274212

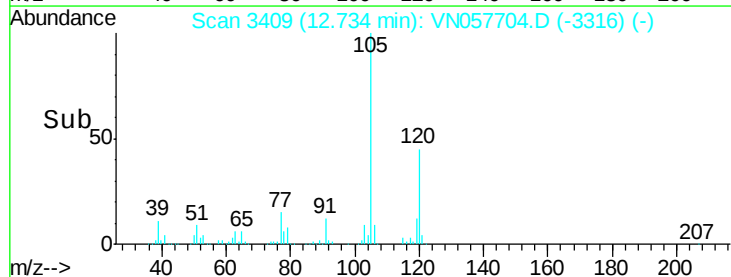
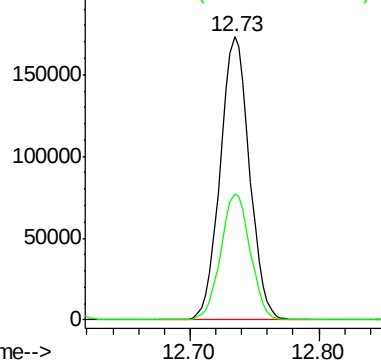
Ion Ratio Lower Upper

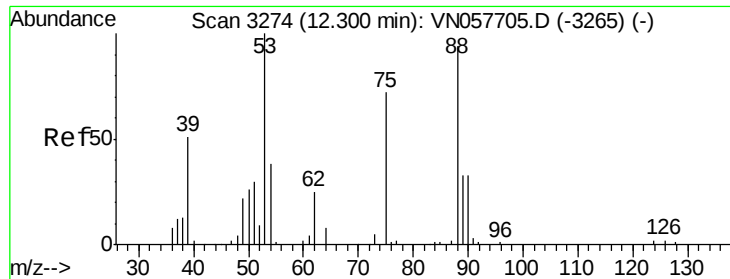
105 100

120 44.8 22.3 66.8



Abundance Ion 105.00 (104.70 to 105.70): VN057705.D (-3393) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 17.825 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN057704.D

Acq: 5 Sep 2019 18:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 75 Resp: 23866

Ion Ratio Lower Upper

75 100

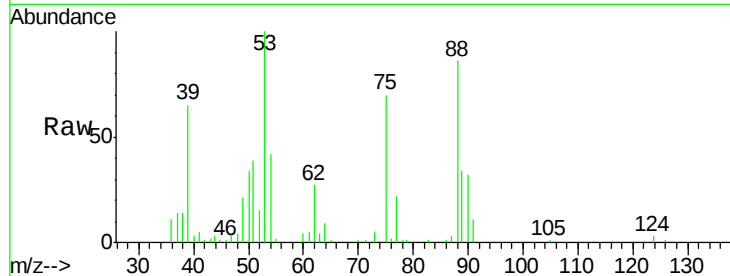
53 145.4 107.0 160.6

89 47.5 36.5 54.7

Manual Integrations
APPROVED

MMDadoda

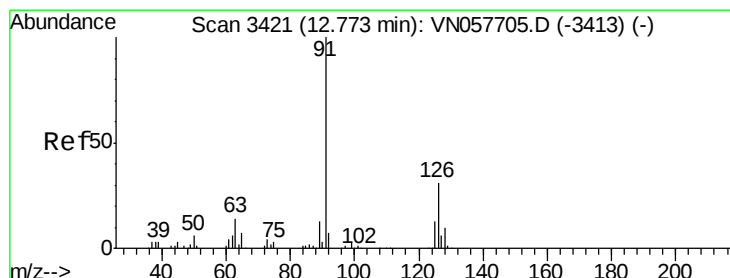
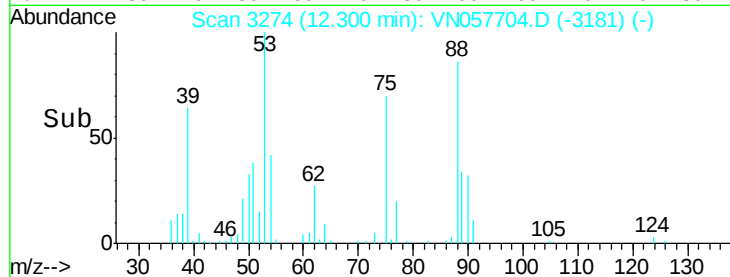
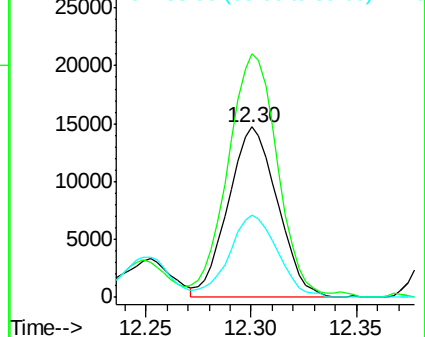
9/9/2019 1:10:27 PM



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#82

4-Chlorotoluene

Concen: 18.369 ug/l

RT: 12.78 min Scan# 3422

Delta R.T. 0.00 min

Lab File: VN057704.D

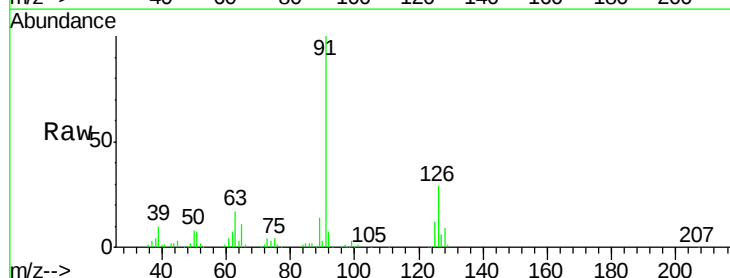
Acq: 5 Sep 2019 18:32

Tgt Ion: 91 Resp: 233280

Ion Ratio Lower Upper

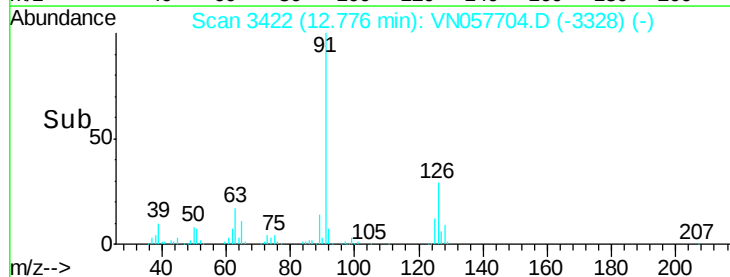
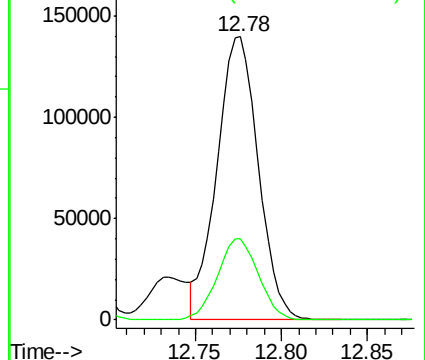
91 100

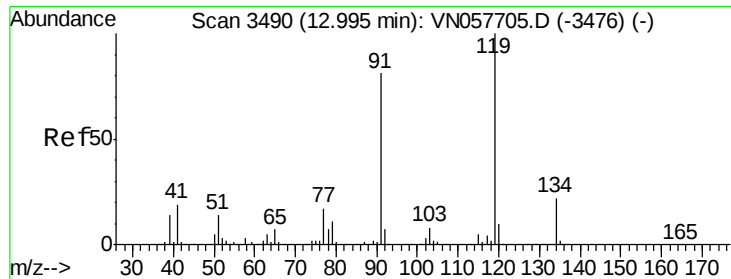
126 28.7 14.4 43.4



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





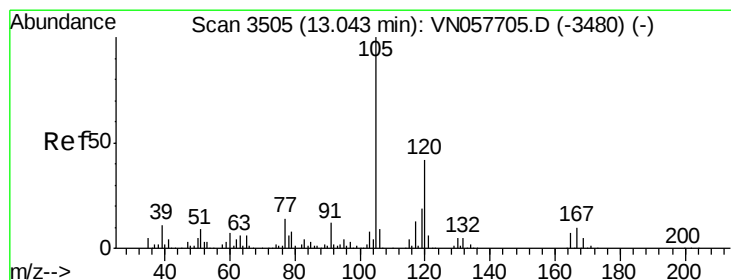
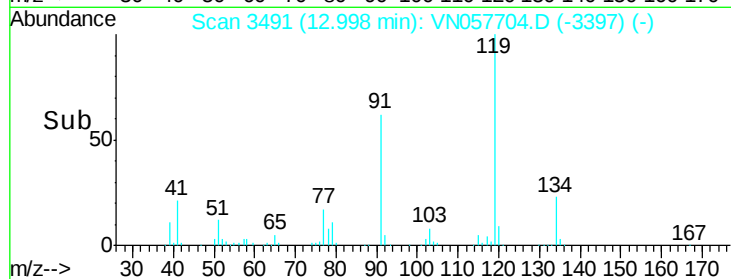
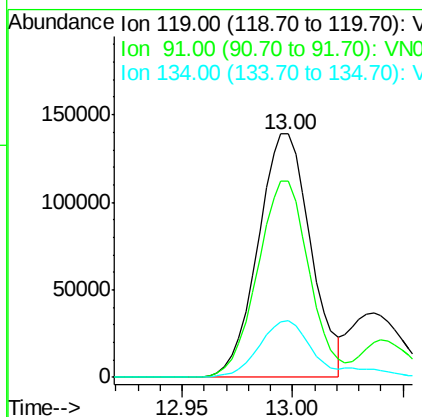
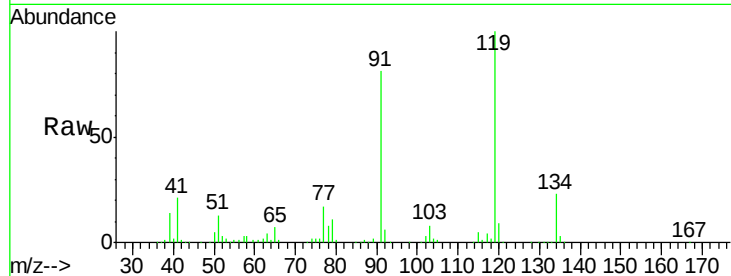
#83
tert-Butylbenzene
Concen: 16.074 ug/l
RT: 13.00 min Scan# 3491
Delta R.T. 0.00 min
Lab File: VN057704.D
Acq: 5 Sep 2019 18:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
119	100		
91	79.0	39.6	118.8
134	22.6	11.3	33.8

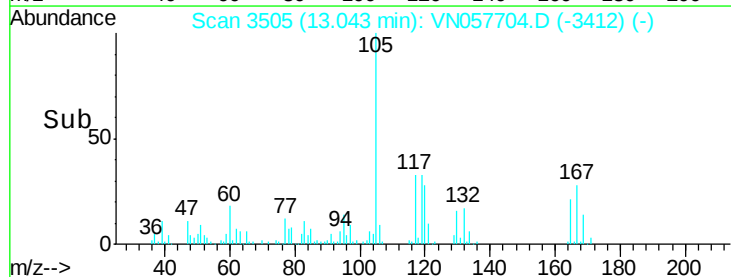
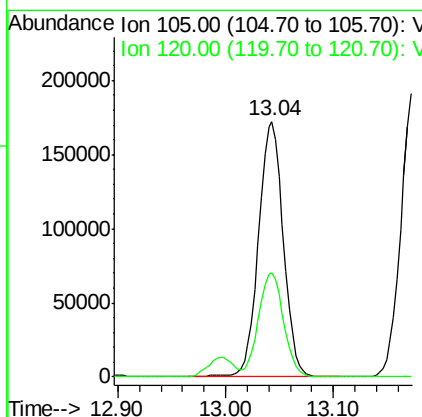
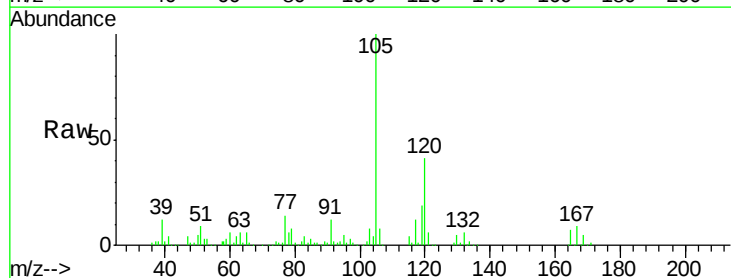
Manual Integrations
APPROVED

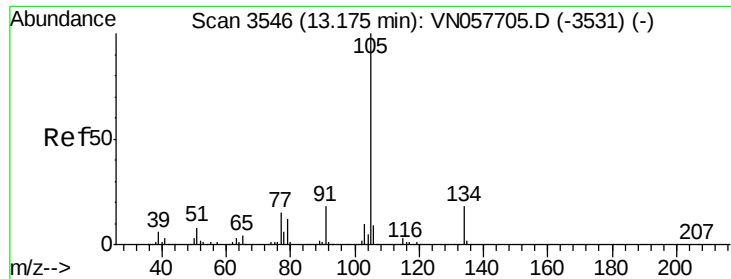
MMDadoda
9/9/2019 1:10:27 PM



#84
1,2,4-Trimethylbenzene
Concen: 18.464 ug/l
RT: 13.04 min Scan# 3505
Delta R.T. 0.00 min
Lab File: VN057704.D
Acq: 5 Sep 2019 18:32

Tgt Ion	Ratio	Lower	Upper
105	100		
120	41.2	20.8	62.5





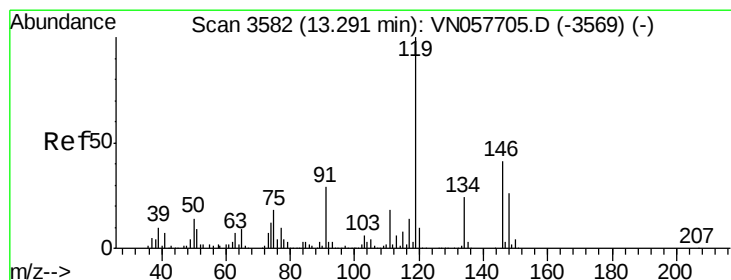
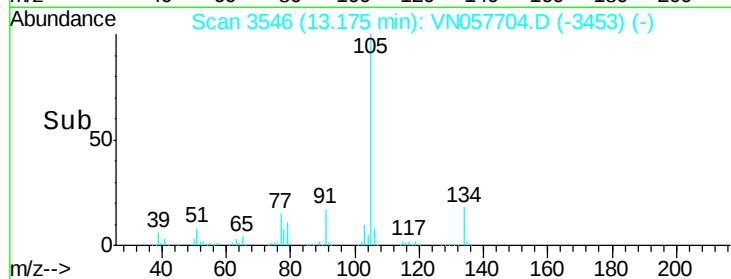
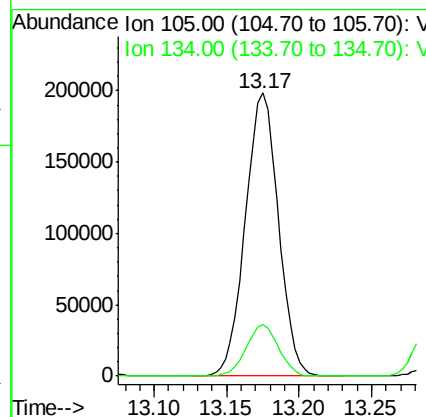
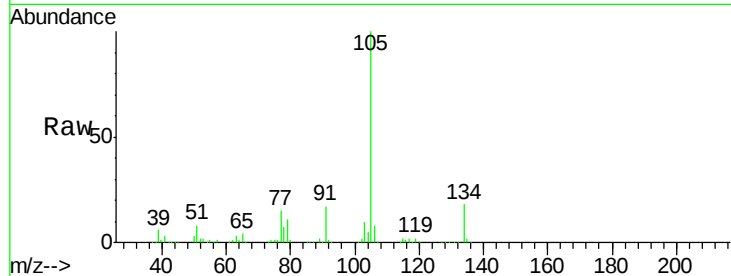
#85
 sec-Butylbenzene
 Concen: 17.578 ug/l
 RT: 13.17 min Scan# 3546
 Delta R.T. 0.00 min
 Lab File: VN057704.D
 Acq: 5 Sep 2019 18:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
105	100	315791		
134	17.7	8.8	26.5	

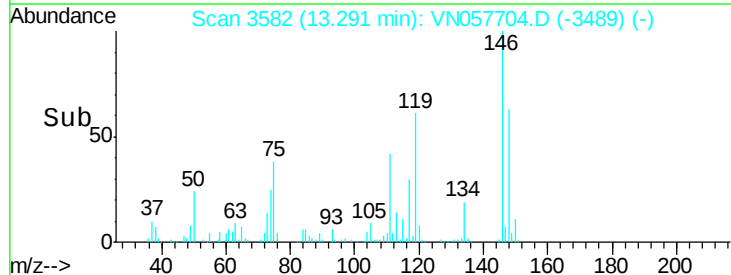
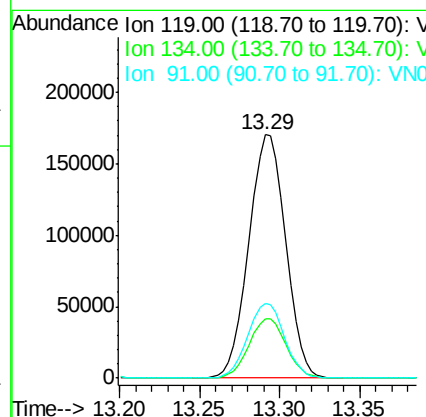
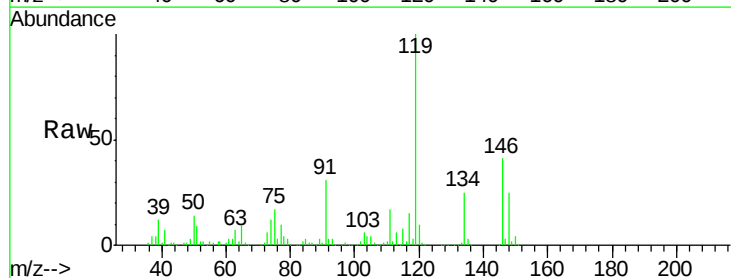
Manual Integrations
 APPROVED

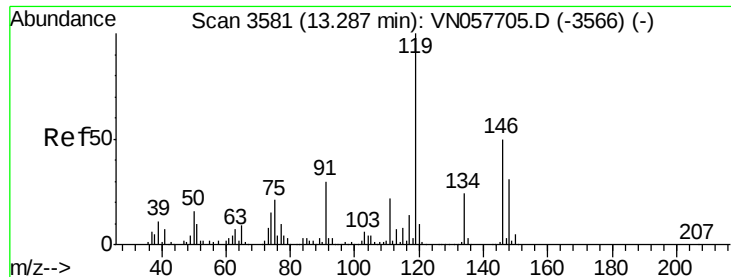
MMDadoda
 9/9/2019 1:10:27 PM



#86
 p-Isopropyltoluene
 Concen: 18.104 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN057704.D
 Acq: 5 Sep 2019 18:32

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	268234		
134	24.6	12.4	37.0	
91	30.4	14.8	44.3	





#87

1,3-Dichlorobenzene

Concen: 21.771 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.00 min

Lab File: VN057704.D

Acq: 5 Sep 2019 18:32

Instrument :

MSVOA_N

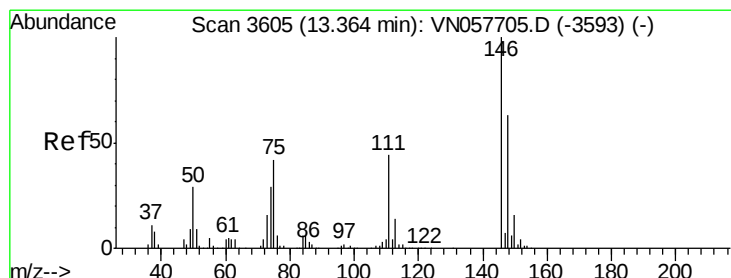
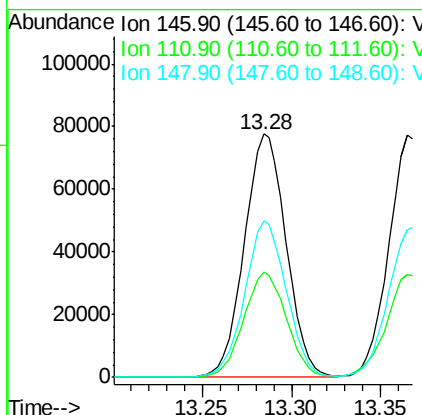
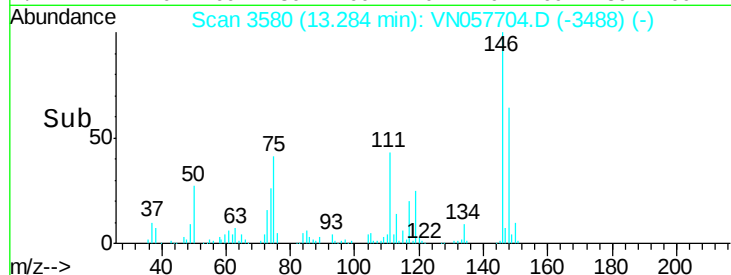
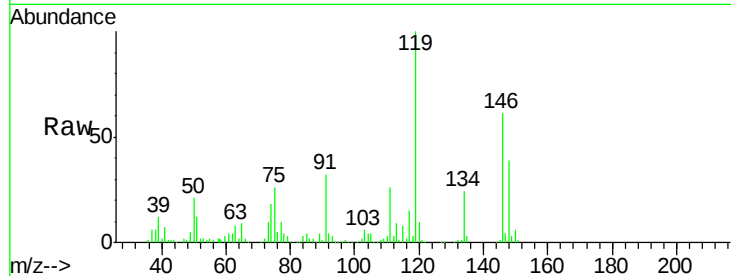
ClientSampled :

VSTDIC020

Tot Ion:	146	Resp:	127372
Ion Ratio	Lower	Upper	
146	100		
111	44.1	22.3	66.8
148	64.1	31.5	94.5

Manual Integrations
APPROVED

MMDadoda
9/9/2019 1:10:27 PM



#88

1,4-Dichlorobenzene

Concen: 21.061 ug/l

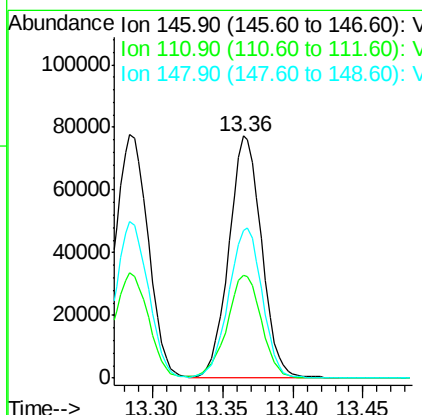
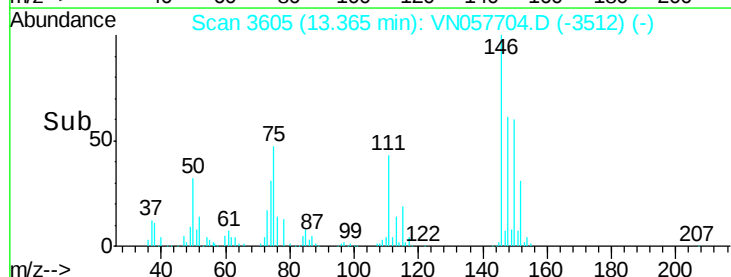
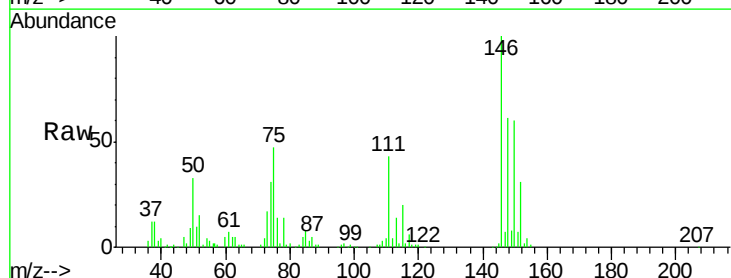
RT: 13.36 min Scan# 3605

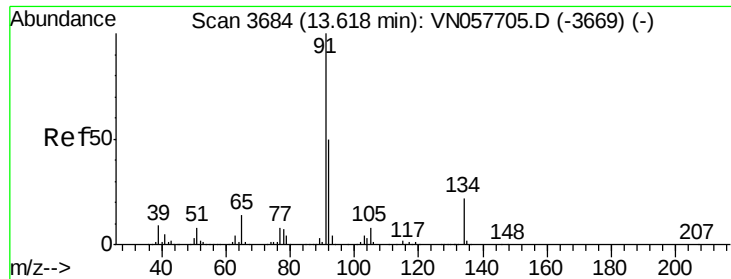
Delta R.T. 0.00 min

Lab File: VN057704.D

Acq: 5 Sep 2019 18:32

Tgt Ion:	146	Resp:	125474
Ion Ratio	Lower	Upper	
146	100		
111	44.7	22.3	66.9
148	63.6	31.9	95.7





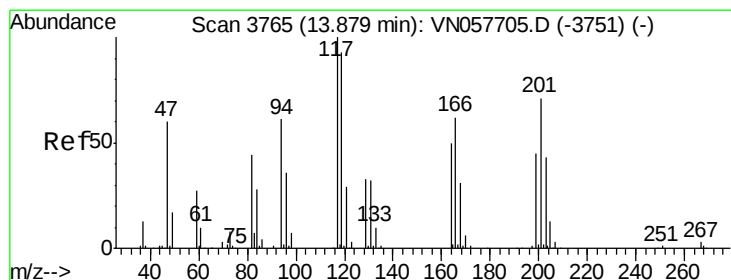
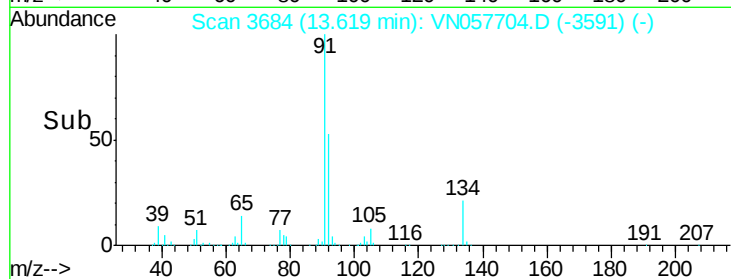
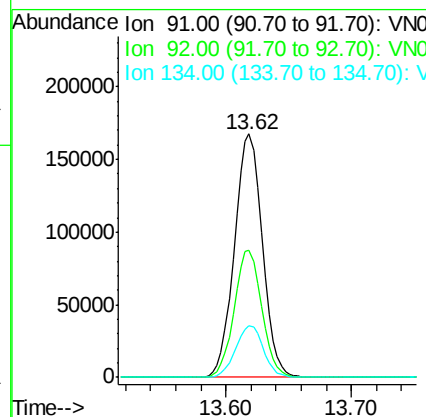
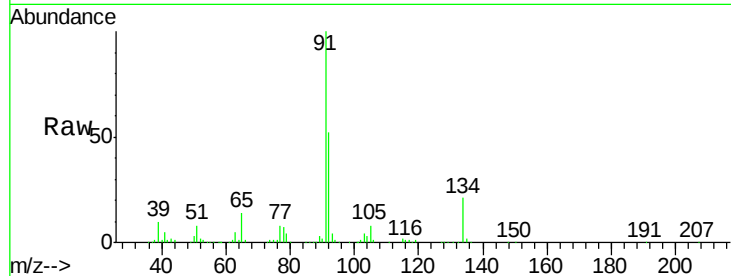
#89
n-Butylbenzene
Concen: 20.011 ug/l
RT: 13.62 min Scan# 3684
Delta R.T. 0.00 min
Lab File: VN057704.D
Acq: 5 Sep 2019 18:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.5	25.6	76.8
134	21.2	11.2	33.5

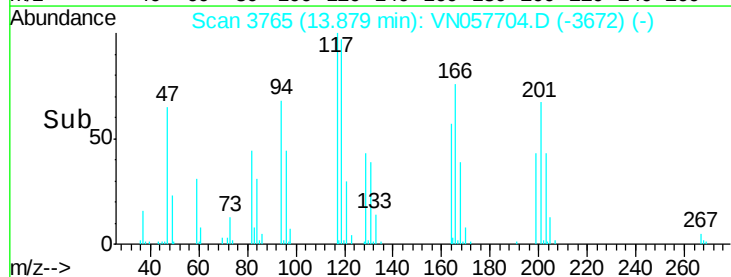
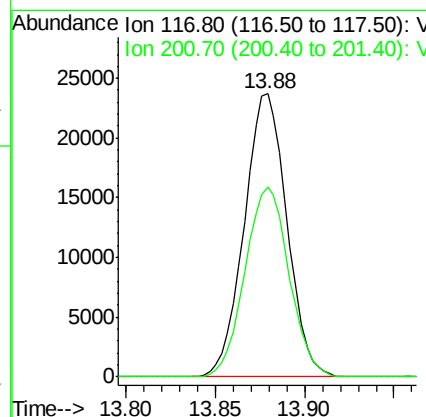
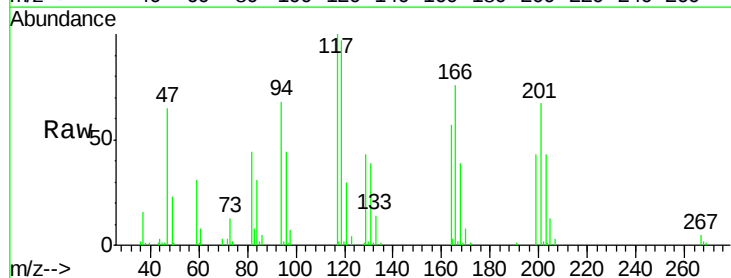
Manual Integrations
APPROVED

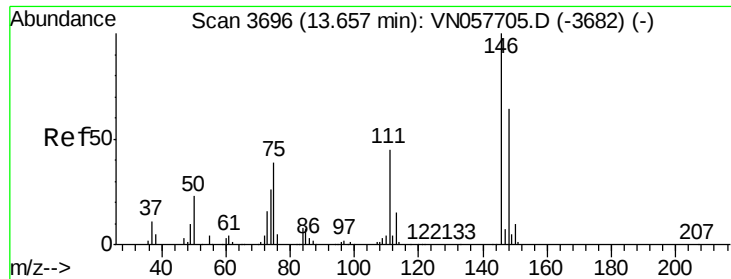
MMDadoda
9/9/2019 1:10:27 PM



#90
Hexachloroethane
Concen: 14.988 ug/l
RT: 13.88 min Scan# 3765
Delta R.T. 0.00 min
Lab File: VN057704.D
Acq: 5 Sep 2019 18:32

Tgt Ion	Ratio	Lower	Upper
117	100		
201	69.3	36.4	109.2





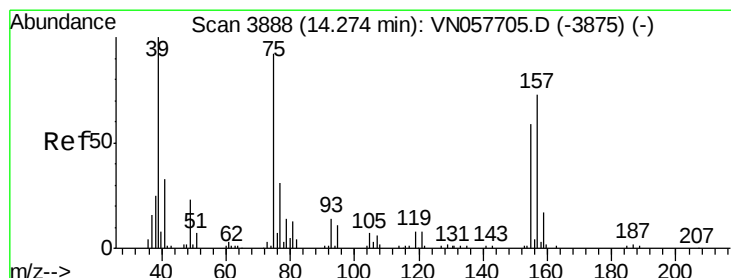
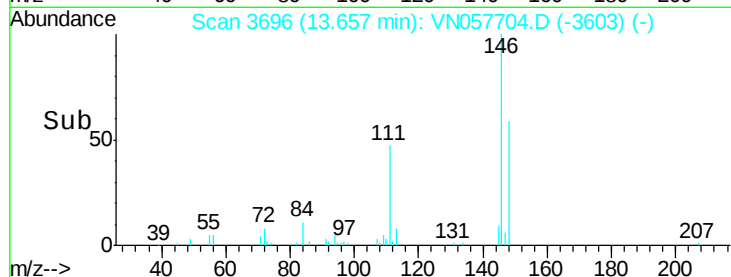
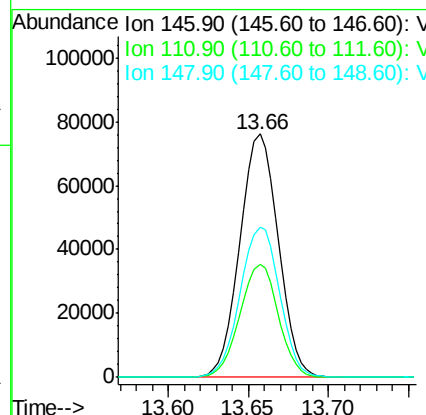
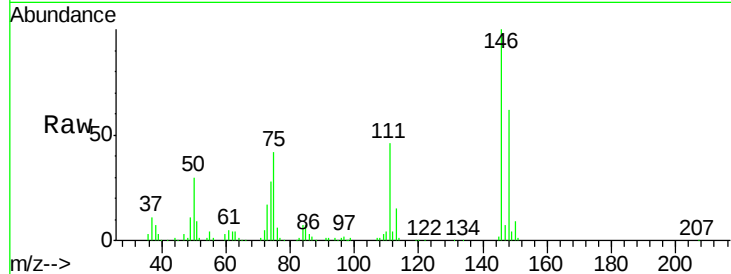
#91
 1,2-Dichlorobenzene
 Concen: 22.443 ug/l
 RT: 13.66 min Scan# 3696
 Delta R.T. 0.00 min
 Lab File: VN057704.D
 Acq: 5 Sep 2019 18:32

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	46.4	22.8	68.3
148	63.5	31.6	95.0

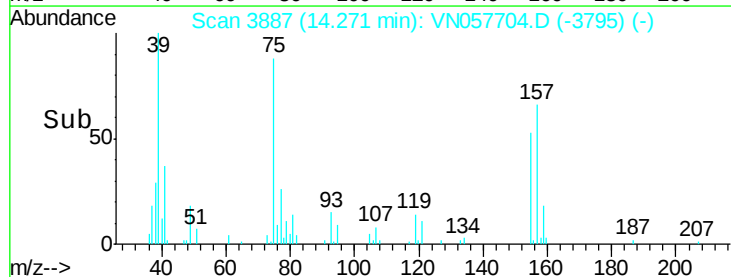
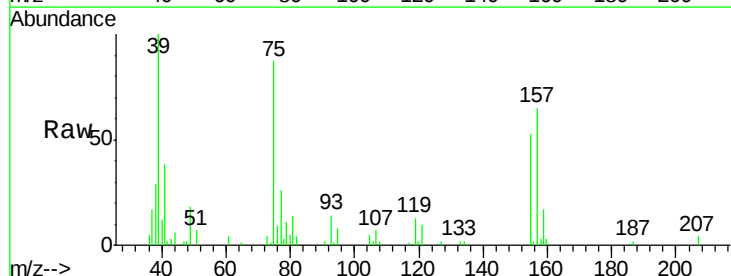
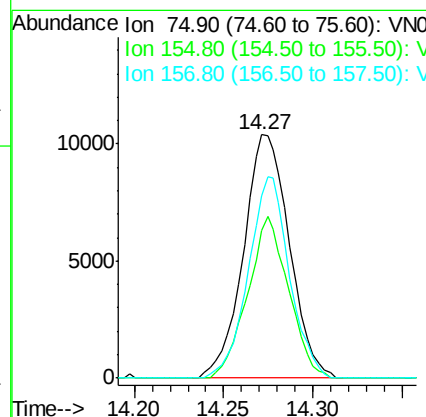
Manual Integrations
 APPROVED

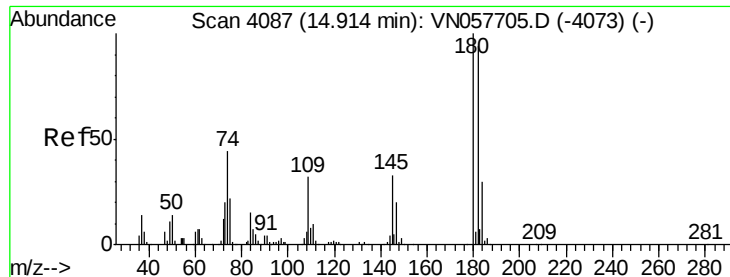
MMDadoda
 9/9/2019 1:10:27 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 23.493 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. -0.00 min
 Lab File: VN057704.D
 Acq: 5 Sep 2019 18:32

Tgt Ion	Ratio	Lower	Upper
75	100		
155	59.1	30.1	90.5
157	74.1	38.1	114.5





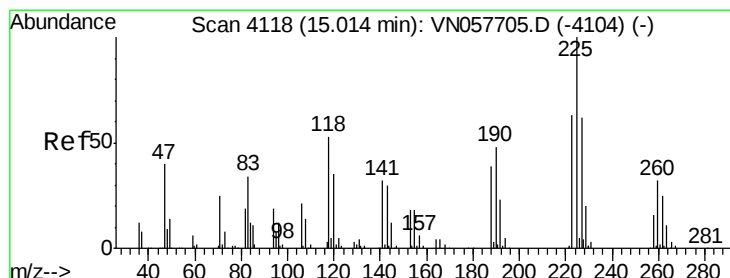
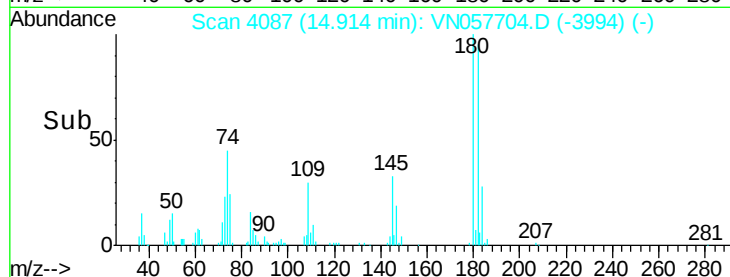
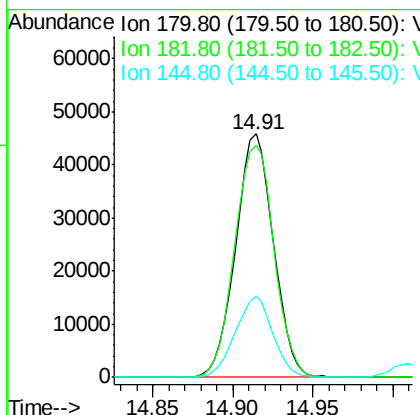
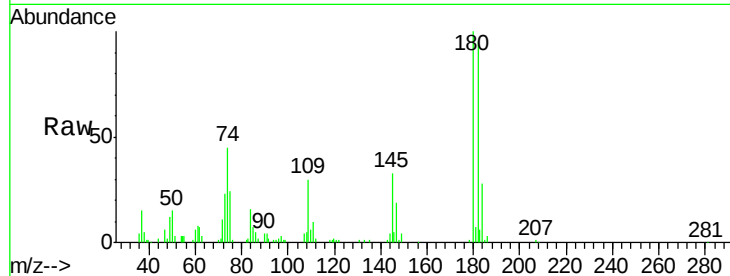
#93
 1,2,4-Trichlorobenzene
 Concen: 36.142 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.00 min
 Lab File: VN057704.D
 Acq: 5 Sep 2019 18:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
180	100		
182	99.3	47.6	142.9
145	32.7	16.6	49.7

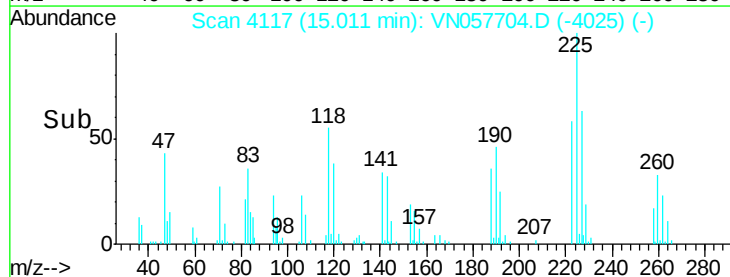
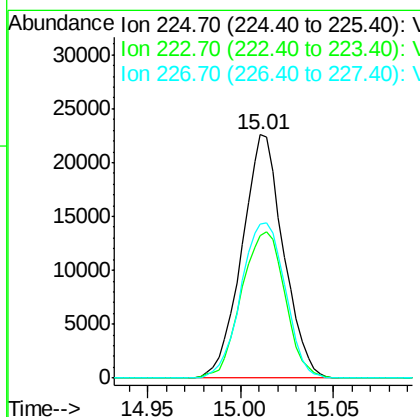
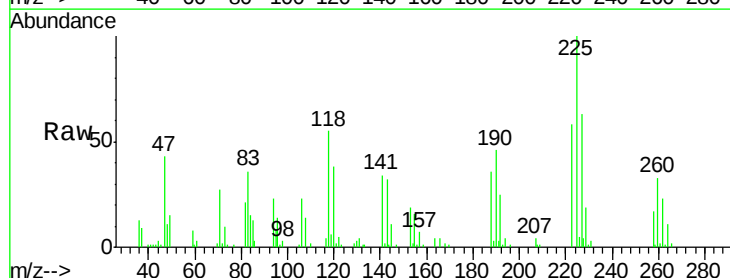
Manual Integrations
 APPROVED

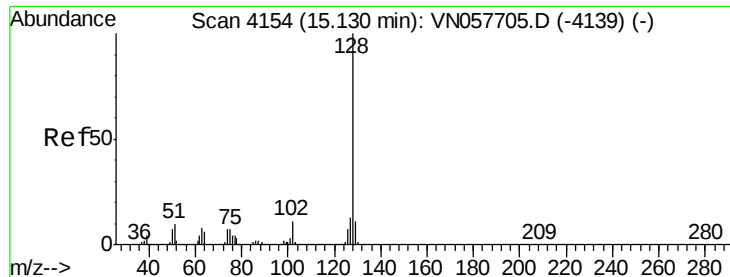
MMDadoda
 9/9/2019 1:10:27 PM



#94
 Hexachlorobutadiene
 Concen: 15.544 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. -0.00 min
 Lab File: VN057704.D
 Acq: 5 Sep 2019 18:32

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.2	31.6	95.0
227	67.7	31.7	95.1





#95

Naphthalene

Concen: 39.311 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN057704.D

Acq: 5 Sep 2019 18:32

Instrument :

MSVOA_N

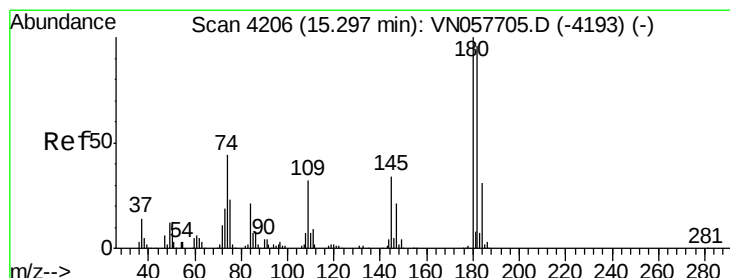
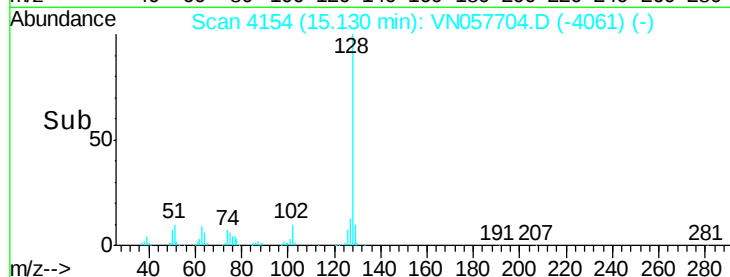
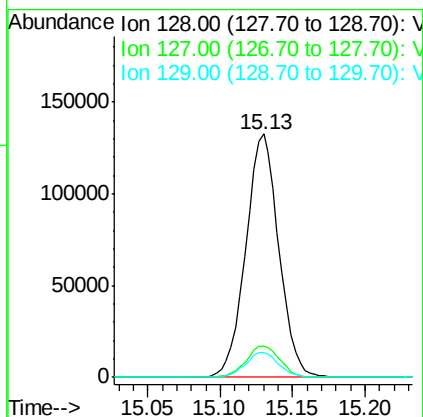
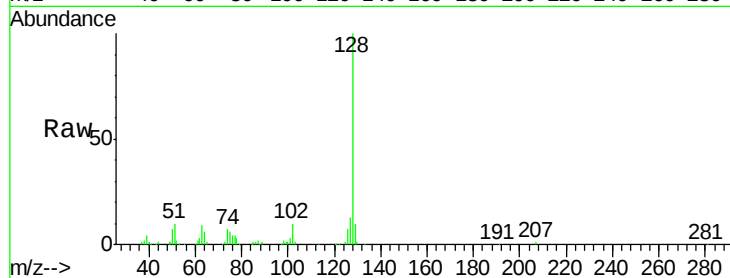
ClientSampleId :

VSTDIC020

Tot Ion:	128	Resp:	209971
Ion Ratio	Lower	Upper	
128	100		
127	13.2	10.6	15.8
129	10.4	8.4	12.6

Manual Integrations
APPROVED

MMDadoda
9/9/2019 1:10:27 PM



#96

1,2,3-Trichlorobenzene

Concen: 37.536 ug/l

RT: 15.30 min Scan# 4206

Delta R.T. 0.00 min

Lab File: VN057704.D

Acq: 5 Sep 2019 18:32

Tgt Ion:	180	Resp:	71360
Ion Ratio	Lower	Upper	
180	100		
182	93.7	47.0	141.2
145	34.8	17.5	52.6

