

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV012219\
 Data File : VV009232.D
 Acq On : 22 Jan 2019 12:57
 Operator : SY/MD
 Sample : VSTDIC020
 Misc : 5.00 G/5ML/MSVOA V/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

MMDadoda
 1/24/2019 11:43:50 AM

Quant Time: Jan 23 01:07:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\82V012219S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 23 00:37:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.73	168	89407	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.66	114	149909	50.00	ug/l	0.00
63) Chlorobenzene-d5	8.89	117	137629	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.30	152	69260	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.07	65	23562	19.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	38.90%	
35) Dibromofluoromethane	4.64	113	21155	21.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	42.56%	
50) Toluene-d8	7.36	98	83317	21.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	43.58%	
62) 4-Bromofluorobenzene	10.12	95	30851	21.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	42.00%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.14	85	15114	21.284	ug/l	95
3) Chloromethane	1.25	50	19694	19.020	ug/l	99
4) Vinyl Chloride	1.32	62	22723	22.446	ug/l	98
5) Bromomethane	1.52	94	13041	19.628	ug/l	98
6) Chloroethane	1.59	64	12743	19.985	ug/l	98
7) Trichlorofluoromethane	1.76	101	15764	25.451	ug/l	98
8) Diethyl Ether	1.96	74	10121	20.183	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	2.14	101	20009	21.706	ug/l	98
10) Methyl Iodide	2.25	142	32189	21.254	ug/l	99
11) Tert butyl alcohol	2.65	59	7323	82.706	ug/l	95
12) 1,1-Dichloroethene	2.13	96	19865	21.462	ug/l	97
13) Acrolein	2.06	56	6952	108.326	ug/l	97
14) Allyl chloride	2.42	41	33872	20.816	ug/l	97
15) Acrylonitrile	2.76	53	21389	98.629	ug/l	100
16) Acetone	2.17	43	30137	101.739	ug/l	99
17) Carbon Disulfide	2.31	76	59645	21.593	ug/l	100
18) Methyl Acetate	2.44	43	15167	19.716	ug/l	96
19) Methyl tert-butyl Ether	2.79	73	30166	20.807	ug/l	98
20) Methylene Chloride	2.52	84	22645	20.215	ug/l	97
21) trans-1,2-Dichloroethene	2.78	96	21287	21.269	ug/l	99
22) Diisopropyl ether	3.32	45	71715	19.795	ug/l	99
23) Vinyl Acetate	3.30	43	191019	95.523	ug/l	100
24) 1,1-Dichloroethane	3.22	63	44048	20.043	ug/l	97
25) 2-Butanone	4.01	43	33536	95.441	ug/l	98
26) 2,2-Dichloropropane	3.95	77	25438	21.895	ug/l	98
27) cis-1,2-Dichloroethene	3.95	96	25188	19.948	ug/l	99
28) Bromochloromethane	4.29	49	16757	19.859	ug/l	97
29) Tetrahydrofuran	4.38	42	18615	92.477	ug/l	97
30) Chloroform	4.42	83	44644	19.546	ug/l	98
31) Cyclohexane	4.72	56	39566	20.202	ug/l	95
32) 1,1,1-Trichloroethane	4.65	97	38385	21.063	ug/l	100
36) 1,1-Dichloropropene	4.87	75	33879	20.872	ug/l	98
37) Ethyl Acetate	4.12	43	13054	19.254	ug/l	98
38) Carbon Tetrachloride	4.87	117	34449	21.358	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV012219\
 Data File : VV009232.D
 Acq On : 22 Jan 2019 12:57
 Operator : SY/MD
 Sample : VSTDIC020
 Misc : 5.00 G/5ML/MSVOA V/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

MMDadoda
 1/24/2019 11:43:50 AM

Quant Time: Jan 23 01:07:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\82V012219S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 23 00:37:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.17	83	39902	21.363	ug/l	98
40) Benzene	5.14	78	96652	21.080	ug/l	100
41) Methacrylonitrile	4.31	41	7594	19.128	ug/l	98
42) 1,2-Dichloroethane	5.17	62	30159	19.715	ug/l	100
43) Isopropyl Acetate	5.32	43	25677	19.059	ug/l	99
44) Trichloroethene	5.96	130	25364	21.487	ug/l	97
45) 1,2-Dichloropropane	6.22	63	23267	20.823	ug/l	98
46) Dibromomethane	6.35	93	11571	19.005	ug/l	97
47) Bromodichloromethane	6.55	83	31365	19.748	ug/l	96
48) Methyl methacrylate	6.41	41	12482	18.279	ug/l	98
49) 1,4-Dioxane	6.41	88	2976	376.751	ug/l	92
51) 4-Methyl-2-Pentanone	7.27	43	64046	95.033	ug/l	100
52) Toluene	7.43	92	61623	21.413	ug/l	98
53) t-1,3-Dichloropropene	7.69	75	30215	19.554	ug/l	100
54) cis-1,3-Dichloropropene	7.07	75	34825	19.891	ug/l	96
55) 1,1,2-Trichloroethane	7.88	97	16495	19.996	ug/l	96
56) Ethyl methacrylate	7.83	69	18329	18.342	ug/l	96
57) 1,3-Dichloropropane	8.05	76	29488	19.392	ug/l	98
58) 2-Chloroethyl Vinyl ether	6.94	63	863	44.876	ug/l	91
59) 2-Hexanone	8.18	43	46012	92.111	ug/l	99
60) Dibromochloromethane	8.29	129	18798	19.138	ug/l	99
61) 1,2-Dibromoethane	8.40	107	15931	19.488	ug/l	99
64) Tetrachloroethene	8.02	164	20455	21.836	ug/l	98
65) Chlorobenzene	8.92	112	65404	20.809	ug/l	100
66) 1,1,1,2-Tetrachloroethane	9.02	131	22023	20.391	ug/l	97
67) Ethyl Benzene	9.05	91	117200	20.991	ug/l	98
68) m/p-Xylenes	9.18	106	90445	43.173	ug/l	98
69) o-Xylene	9.59	106	40877	20.944	ug/l	97
70) Styrene	9.60	104	65113	20.462	ug/l	99
71) Bromoform	9.77	173	10321	19.561	ug/l #	100
73) Isopropylbenzene	9.97	105	117922	21.501	ug/l	99
74) N-amyl acetate	9.84	43	19756	17.052	ug/l	98
75) 1,1,2,2-Tetrachloroethane	10.29	83	19432	19.784	ug/l	98
76) 1,2,3-Trichloropropane	10.32	75	14962m	19.578	ug/l	
77) Bromobenzene	10.26	156	24596	20.198	ug/l	99
78) n-propylbenzene	10.40	91	139541	21.471	ug/l	100
79) 2-Chlorotoluene	10.47	91	85978	21.444	ug/l	99
80) 1,3,5-Trimethylbenzene	10.58	105	99907	21.495	ug/l	98
81) trans-1,4-Dichloro-2-buten	10.05	75	5167	18.747	ug/l	96
82) 4-Chlorotoluene	10.58	91	99520	20.840	ug/l	99
83) tert-Butylbenzene	10.91	119	94033	21.278	ug/l	99
84) 1,2,4-Trimethylbenzene	10.96	105	101415	21.172	ug/l	98
85) sec-Butylbenzene	11.13	105	122448	21.556	ug/l	99
86) p-Isopropyltoluene	11.29	119	106840	21.214	ug/l	99
87) 1,3-Dichlorobenzene	11.22	146	51822	20.829	ug/l	99
88) 1,4-Dichlorobenzene	11.32	146	52614	20.838	ug/l	98
89) n-Butylbenzene	11.70	91	103177	20.800	ug/l	100
90) Hexachloroethane	11.95	117	18451	20.312	ug/l	100
91) 1,2-Dichlorobenzene	11.69	146	44862	20.164	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	12.48	75	3138	18.443	ug/l	96

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV012219\
Data File : VV009232.D
Acq On : 22 Jan 2019 12:57
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00 G/5ML/MSVOA V/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

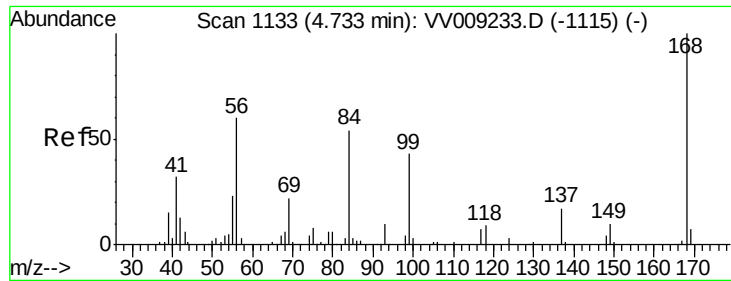
Manual Integrations
APPROVED

MMDadoda
1/24/2019 11:43:50 AM

Quant Time: Jan 23 01:07:21 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_V\METHOD\82V012219S.M
Quant Title : SW846 8260
QLast Update : Wed Jan 23 00:37:29 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.31	180	27804	18.324	ug/l	98
94) Hexachlorobutadiene	13.49	225	18386	21.460	ug/l	98
95) Naphthalene	13.55	128	45559	17.110	ug/l	98
96) 1,2,3-Trichlorobenzene	13.79	180	23734	18.427	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.73 min Scan# 1132

Delta R.T. -0.00 min

Lab File: VV009232.D

Acq: 22 Jan 2019 12:57

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC020

Tot Ion:168 Resp: 89407

Ion Ratio Lower Upper

168 100

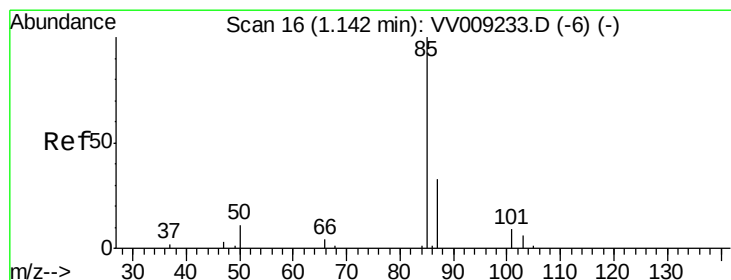
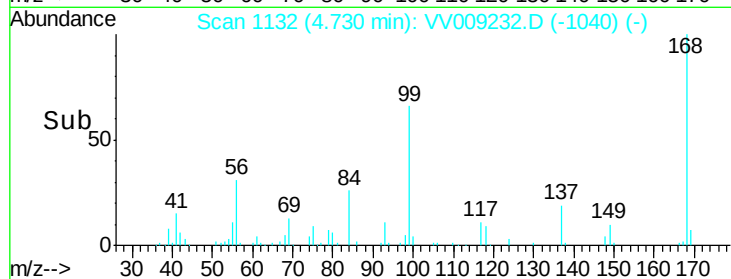
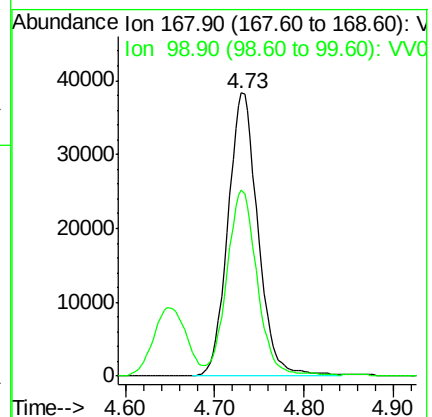
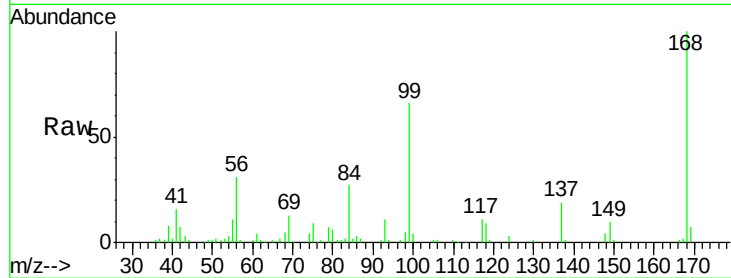
99 65.4 50.9 76.3

Manual Integrations

APPROVED

MMDadoda

1/24/2019 11:43:50 AM



#2

Dichlorodifluoromethane

Concen: 21.284 ug/l

RT: 1.14 min Scan# 16

Delta R.T. 0.00 min

Lab File: VV009232.D

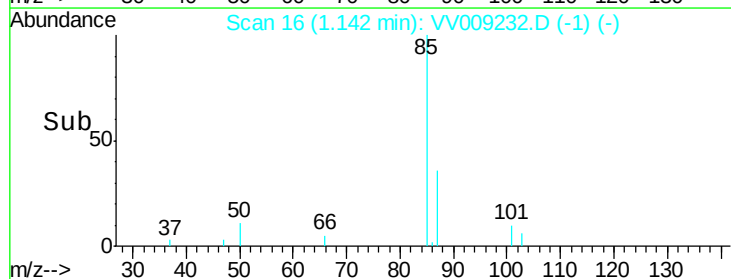
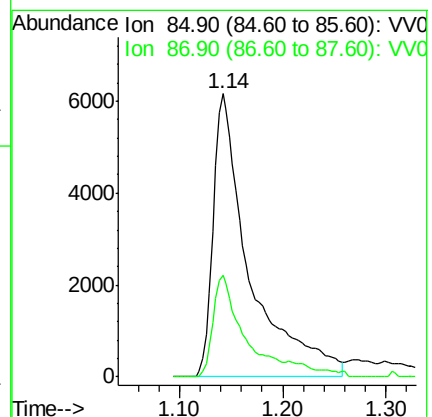
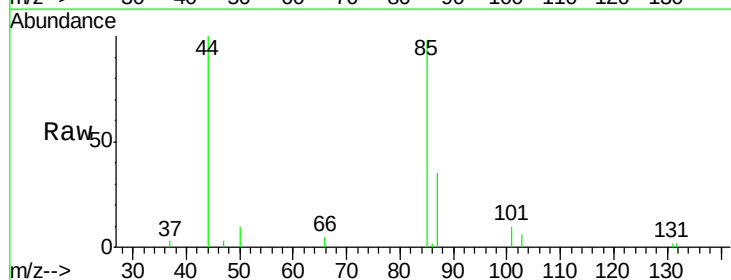
Acq: 22 Jan 2019 12:57

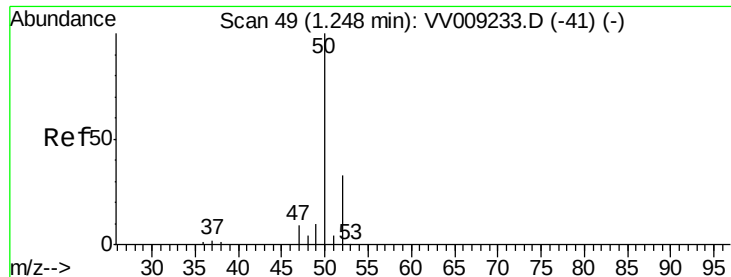
Tgt Ion: 85 Resp: 15114

Ion Ratio Lower Upper

85 100

87 35.8 16.6 49.7





#3

Chloromethane

Concen: 19.020 ug/l

RT: 1.25 min Scan# 49

Delta R.T. 0.00 min

Lab File: VV009232.D

Acq: 22 Jan 2019 12:57

Tot Ion: 50 Resp: 19694

Ion Ratio Lower Upper

50 100

52 33.4 26.3 39.5

Instrument :

MSVOA_V

ClientSampleId :

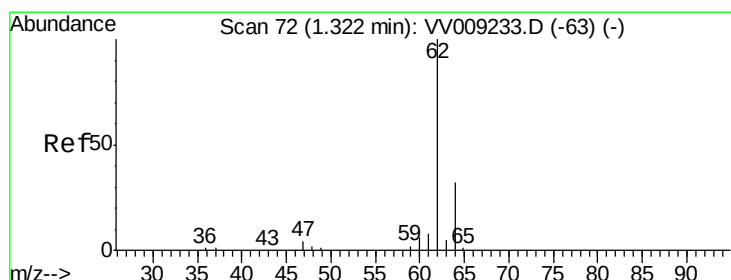
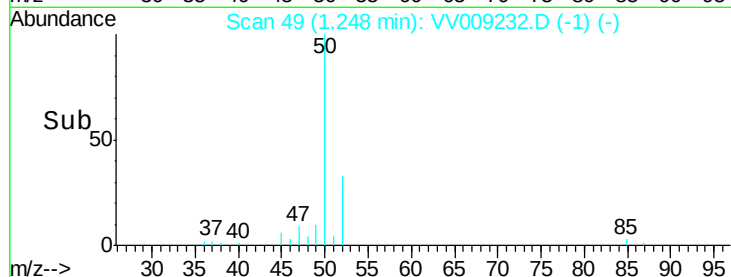
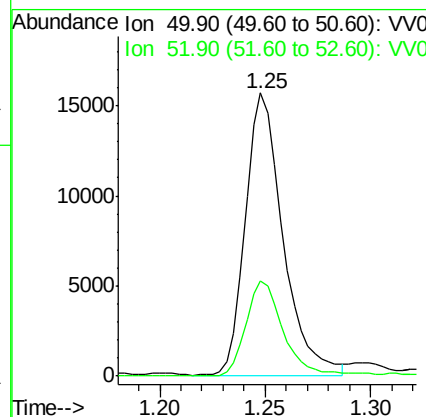
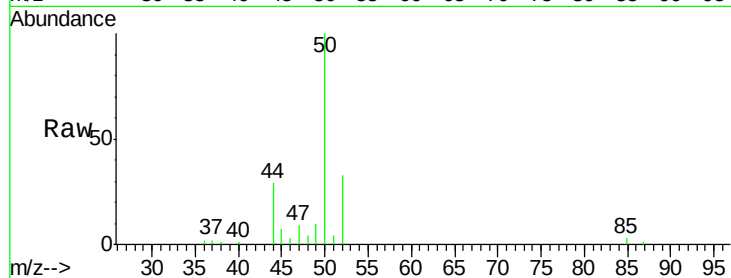
VSTDIC020

Manual Integrations

APPROVED

MMDadoda

1/24/2019 11:43:50 AM



#4

Vinyl Chloride

Concen: 22.446 ug/l

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV009232.D

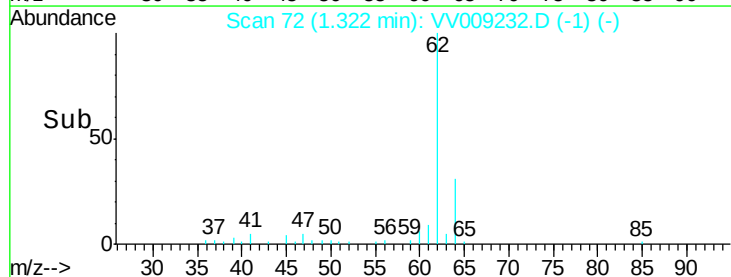
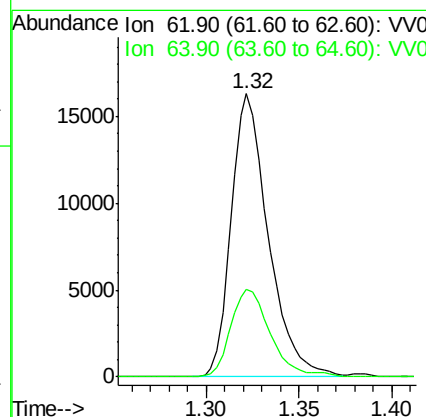
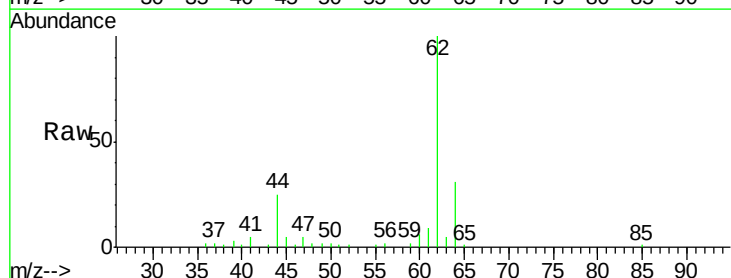
Acq: 22 Jan 2019 12:57

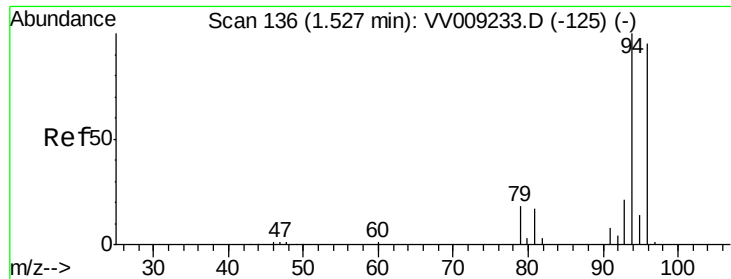
Tgt Ion: 62 Resp: 22723

Ion Ratio Lower Upper

62 100

64 30.8 25.4 38.0





#5

Bromomethane

Concen: 19.628 ug/l

RT: 1.52 min Scan# 135

Delta R.T. -0.00 min

Lab File: VV009232.D

Acq: 22 Jan 2019 12:57

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC020

Tot Ion: 94 Resp: 13041

Ion Ratio Lower Upper

94 100

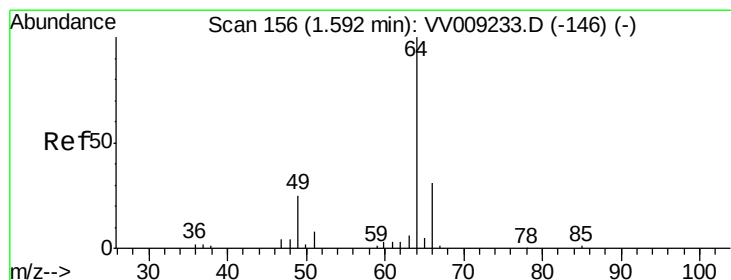
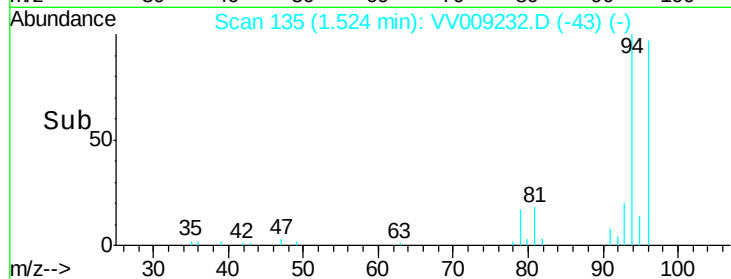
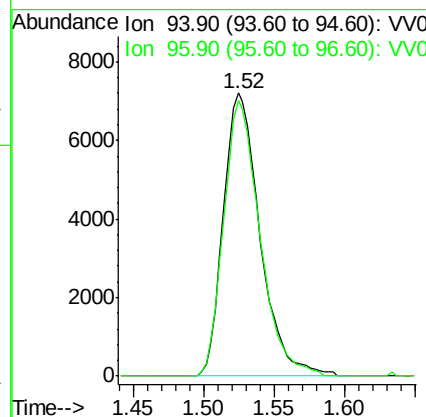
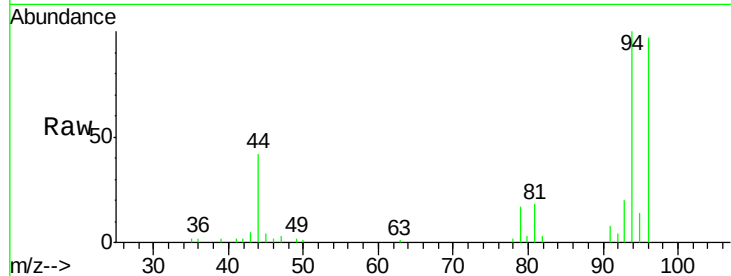
96 97.3 76.3 114.5

Manual Integrations

APPROVED

MMDadoda

1/24/2019 11:43:50 AM



#6

Chloroethane

Concen: 19.985 ug/l

RT: 1.59 min Scan# 156

Delta R.T. 0.00 min

Lab File: VV009232.D

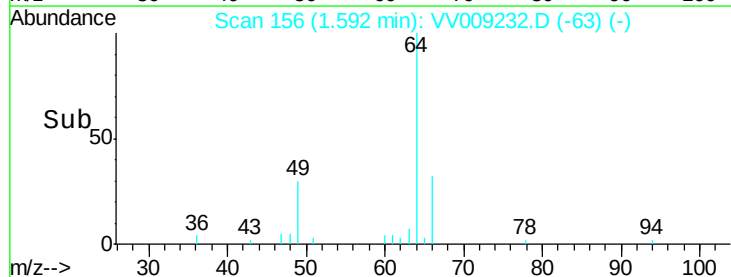
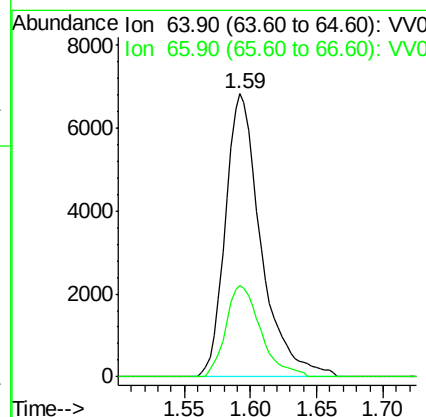
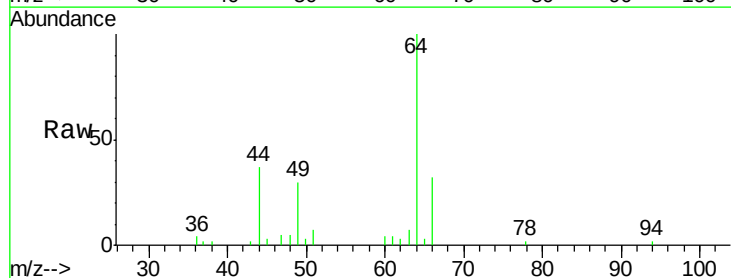
Acq: 22 Jan 2019 12:57

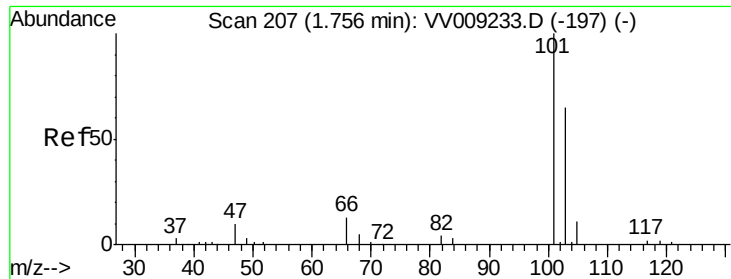
Tgt Ion: 64 Resp: 12743

Ion Ratio Lower Upper

64 100

66 32.5 25.1 37.7





#7

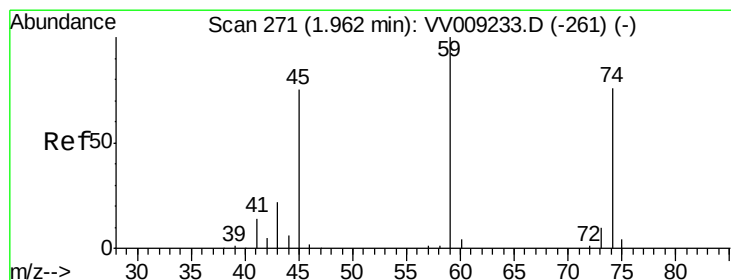
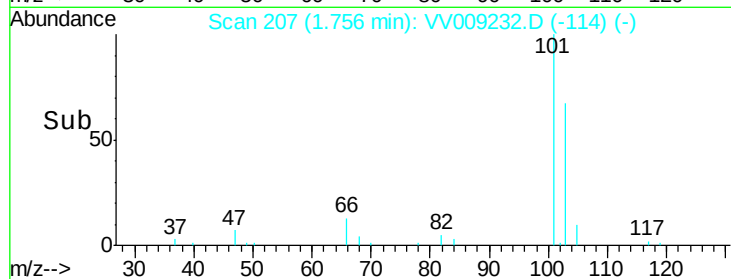
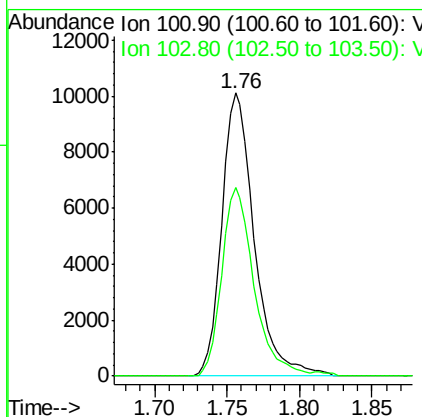
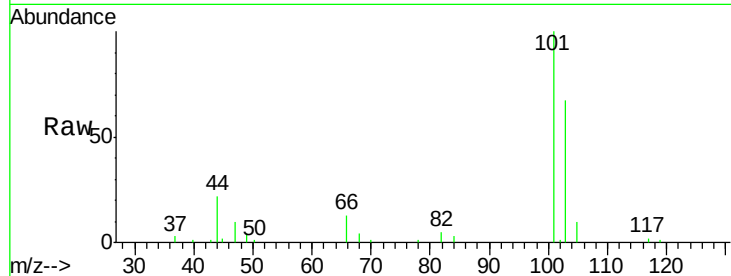
Trichlorofluoromethane
Concen: 25.451 ug/l
RT: 1.76 min Scan# 207
Delta R.T. 0.00 min
Lab File: VV009232.D
Acq: 22 Jan 2019 12:57

Instrument :
MSVOA_V
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
101	100		
103	66.6	52.2	78.4

Manual Integrations
APPROVED

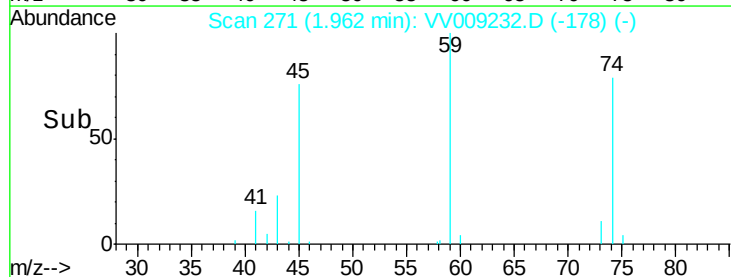
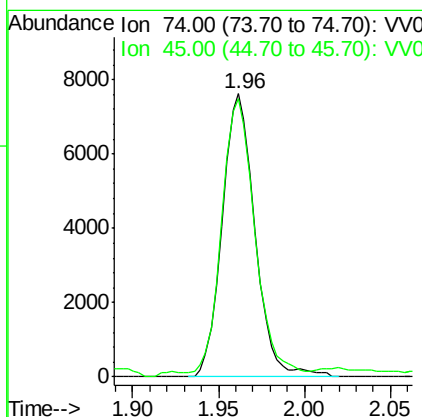
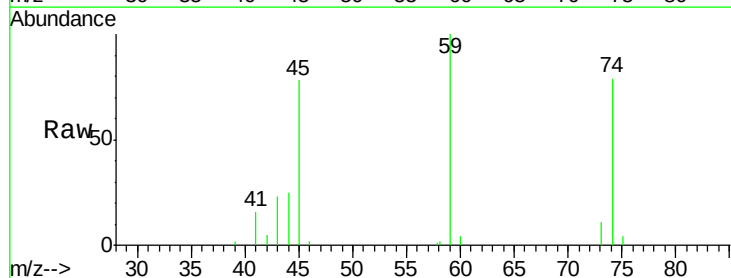
MMDadoda
1/24/2019 11:43:50 AM

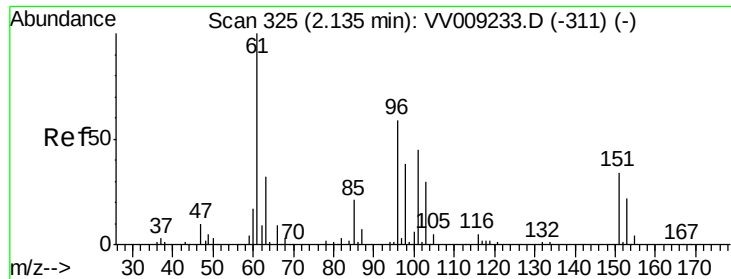


#8

Diethyl Ether
Concen: 20.183 ug/l
RT: 1.96 min Scan# 271
Delta R.T. 0.00 min
Lab File: VV009232.D
Acq: 22 Jan 2019 12:57

Tgt Ion	Ratio	Lower	Upper
74	100		
45	96.5	49.1	147.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.706 ug/l

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV009232.D

Acq: 22 Jan 2019 12:57

Instrument :

MSVOA_V

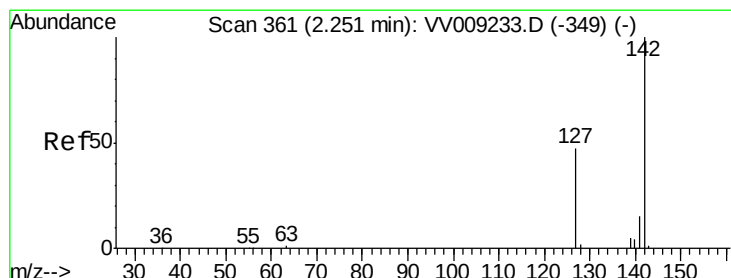
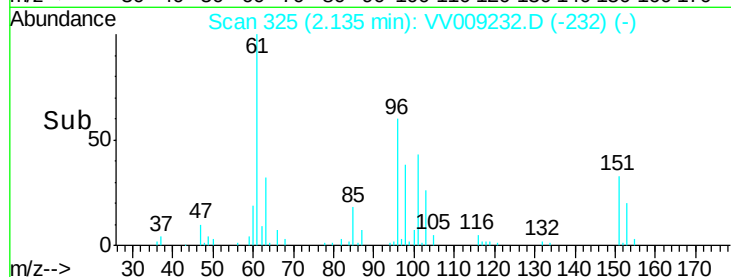
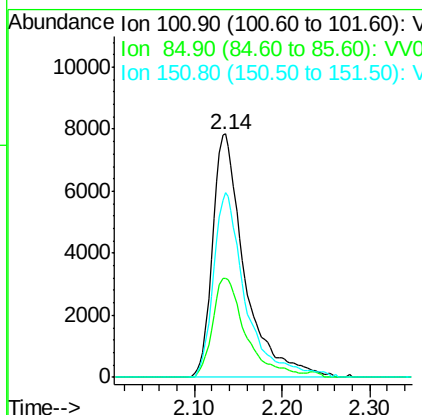
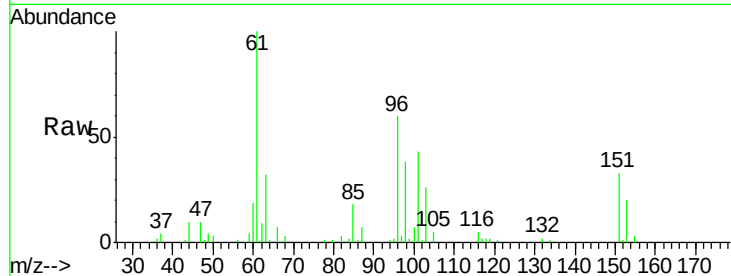
ClientSampleId :

VSTDIC020

Tot Ion:	101	Resp:	20009
Ion Ratio	Lower	Upper	
101	100		
85	42.2	35.3	52.9
151	75.8	60.1	90.1

Manual Integrations
APPROVED

MMDadoda
1/24/2019 11:43:50 AM



#10

Methyl Iodide

Concen: 21.254 ug/l

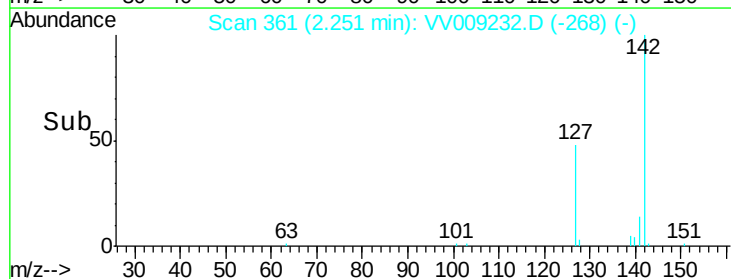
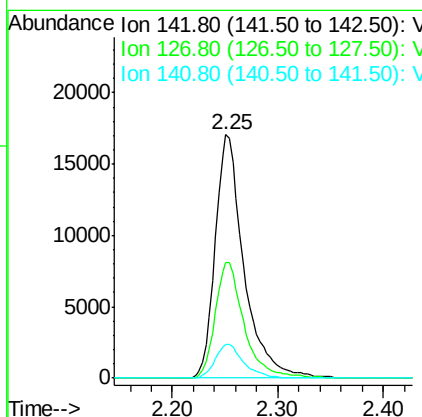
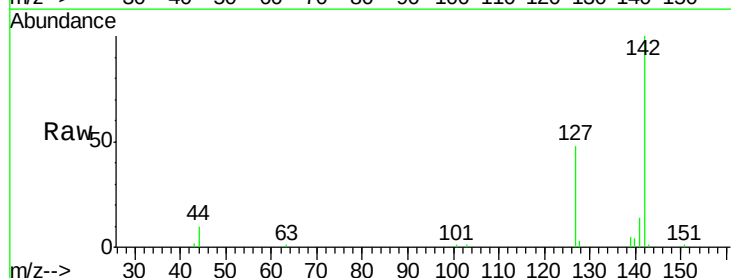
RT: 2.25 min Scan# 361

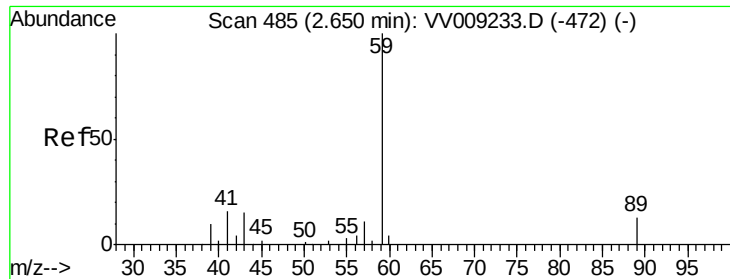
Delta R.T. 0.00 min

Lab File: VV009232.D

Acq: 22 Jan 2019 12:57

Tgt Ion:	142	Resp:	32189
Ion Ratio	Lower	Upper	
142	100		
127	47.5	37.9	56.9
141	13.7	11.7	17.5





#11

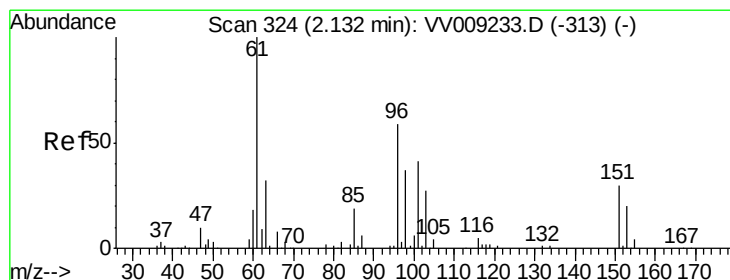
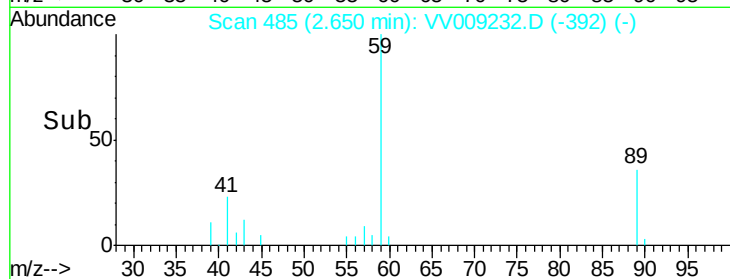
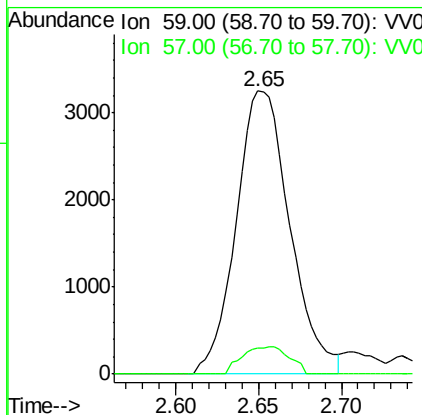
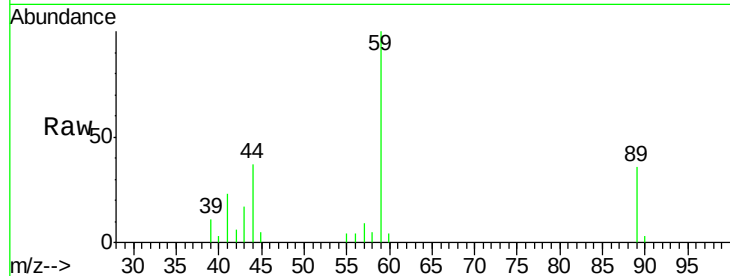
Tert butyl alcohol
Concen: 82.706 ug/l
RT: 2.65 min Scan# 485
Delta R.T. 0.00 min
Lab File: VV009232.D
Acq: 22 Jan 2019 12:57

Instrument :
MSVOA_V
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
59	100		
57	8.6	8.4	12.6

Manual Integrations
APPROVED

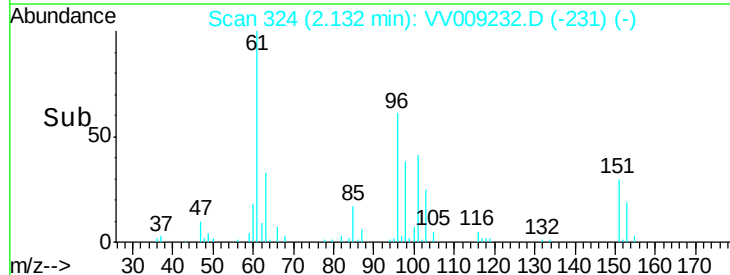
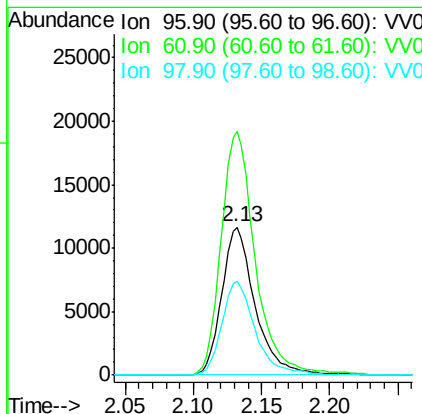
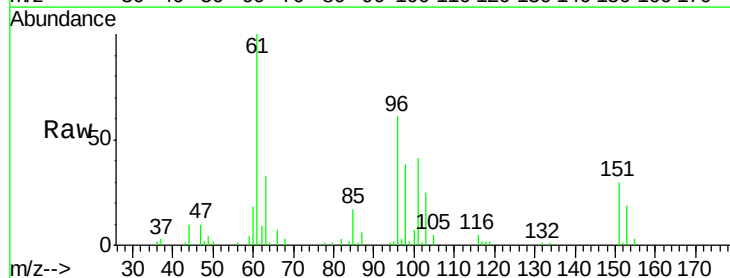
MMDadoda
1/24/2019 11:43:50 AM

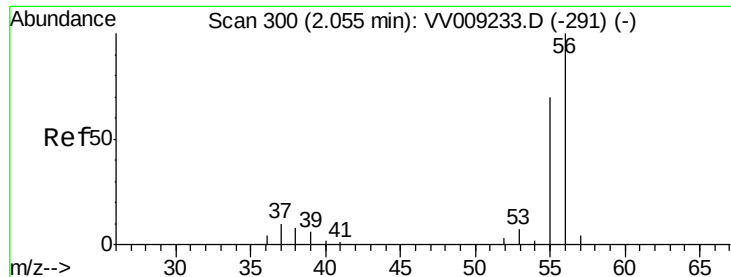


#12

1,1-Dichloroethene
Concen: 21.462 ug/l
RT: 2.13 min Scan# 324
Delta R.T. 0.00 min
Lab File: VV009232.D
Acq: 22 Jan 2019 12:57

Tgt Ion	Ratio	Lower	Upper
96	100		
61	164.7	136.6	205.0
98	63.3	50.6	75.8





#13

Acrolein

Concen: 108.326 ug/l

RT: 2.06 min Scan# 301

Delta R.T. 0.00 min

Lab File: VV009232.D

Acq: 22 Jan 2019 12:57

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC020

Tot Ion: 56 Resp: 6952

Ion Ratio Lower Upper

56 100

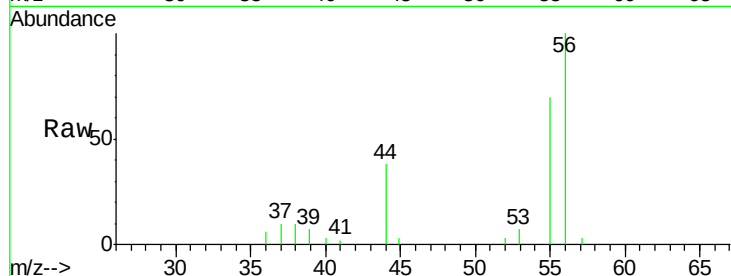
55 70.2 54.0 81.0

Manual Integrations

APPROVED

MMDadoda

1/24/2019 11:43:50 AM

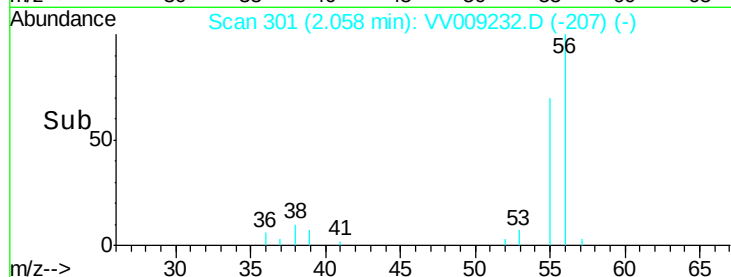


Abundance Ion 56.00 (55.70 to 56.70): VV009233.D (-291) (-)

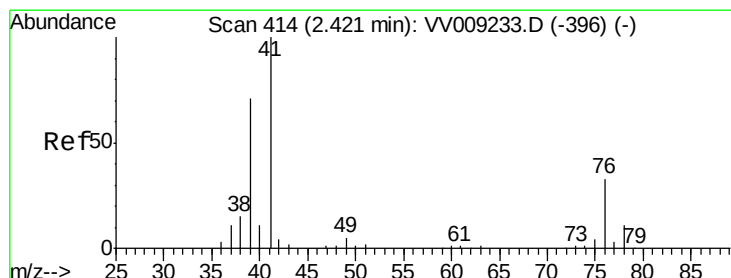
Ion 55.00 (54.70 to 55.70): VV009233.D (-291) (-)

2.06

Time-->



Time-->



#14

Allyl chloride

Concen: 20.816 ug/l

RT: 2.42 min Scan# 414

Delta R.T. 0.00 min

Lab File: VV009232.D

Acq: 22 Jan 2019 12:57

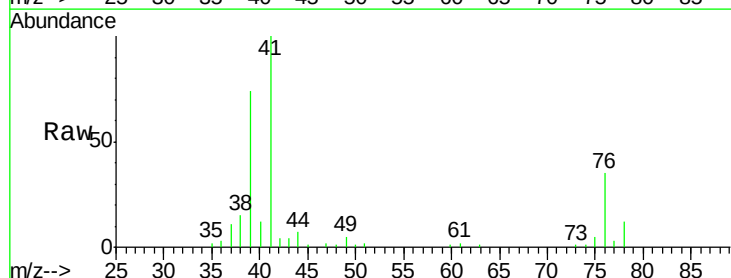
Tgt Ion: 41 Resp: 33872

Ion Ratio Lower Upper

41 100

39 72.0 55.1 82.7

76 33.6 26.7 40.1



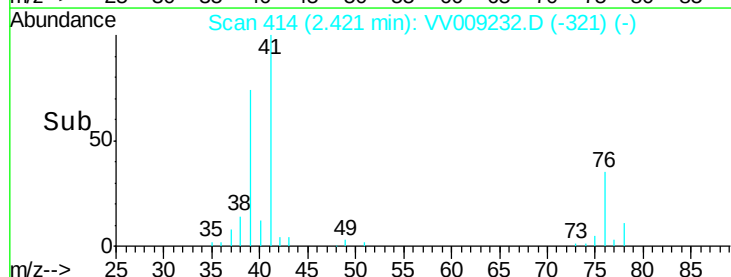
Abundance Ion 41.00 (40.70 to 41.70): VV009233.D (-396) (-)

Ion 39.00 (38.70 to 39.70): VV009233.D (-396) (-)

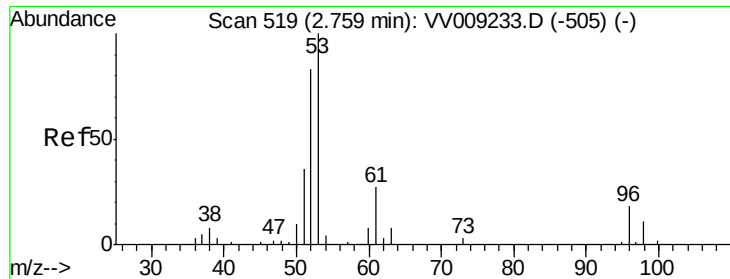
Ion 75.90 (75.60 to 76.60): VV009233.D (-396) (-)

2.42

Time-->



Time-->



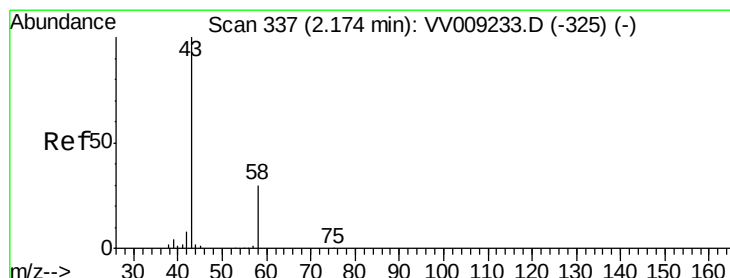
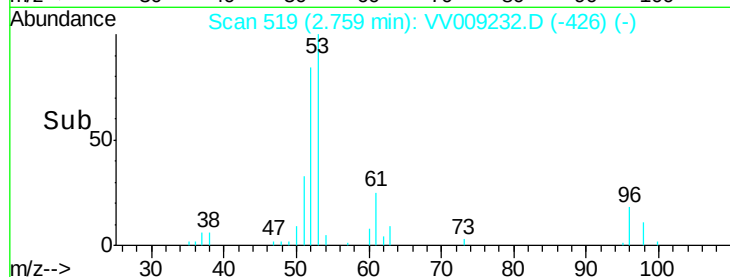
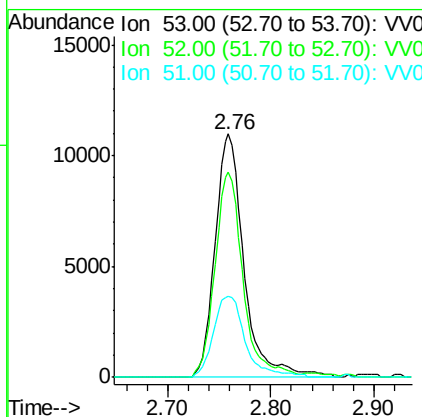
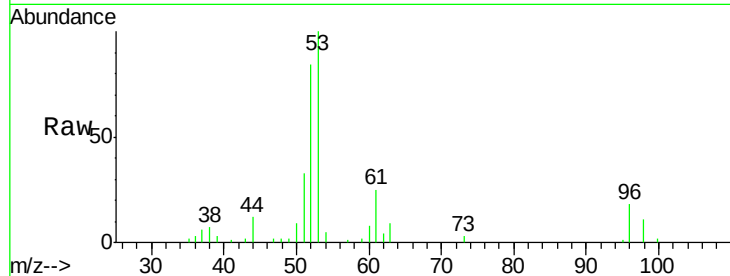
#15
 Acrylonitrile
 Concen: 98.629 ug/l
 RT: 2.76 min Scan# 519
 Delta R.T. 0.00 min
 Lab File: VV009232.D
 Acq: 22 Jan 2019 12:57

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDIC020

Tot Ion:	53	Resp:	21389
Ion	Ratio	Lower	Upper
53	100		
52	81.5	65.3	97.9
51	36.9	29.0	43.4

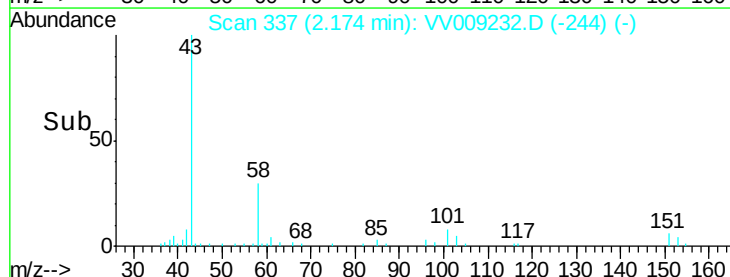
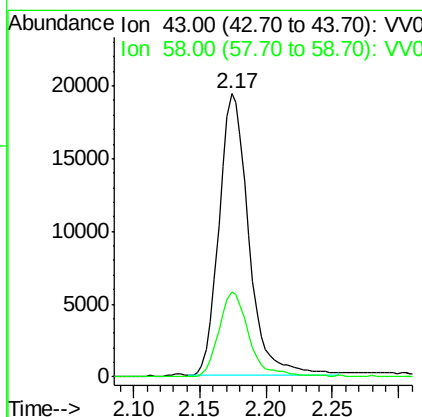
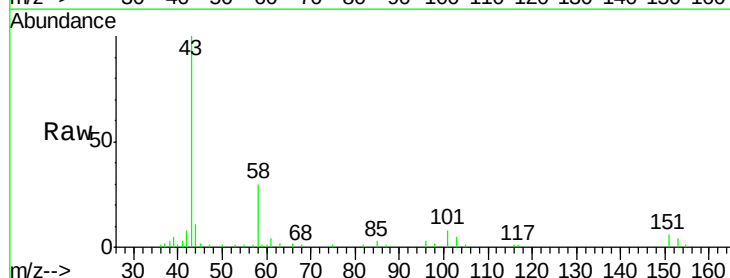
Manual Integrations
 APPROVED

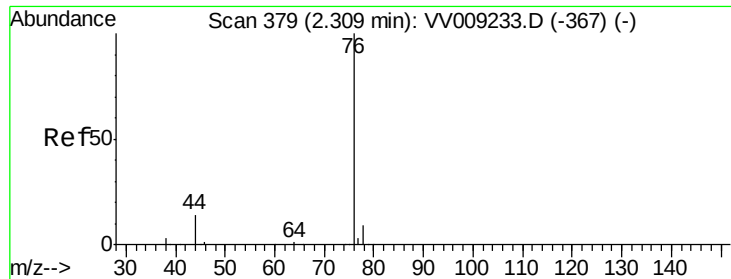
MMDadoda
 1/24/2019 11:43:50 AM



#16
 Acetone
 Concen: 101.739 ug/l
 RT: 2.17 min Scan# 337
 Delta R.T. 0.00 min
 Lab File: VV009232.D
 Acq: 22 Jan 2019 12:57

Tgt Ion:	43	Resp:	30137
Ion	Ratio	Lower	Upper
43	100		
58	30.2	24.4	36.6





#17

Carbon Disulfide

Concen: 21.593 ug/l

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

Lab File: VV009232.D

Acq: 22 Jan 2019 12:57

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC020

Tot Ion: 76 Resp: 59645

Ion Ratio Lower Upper

76 100

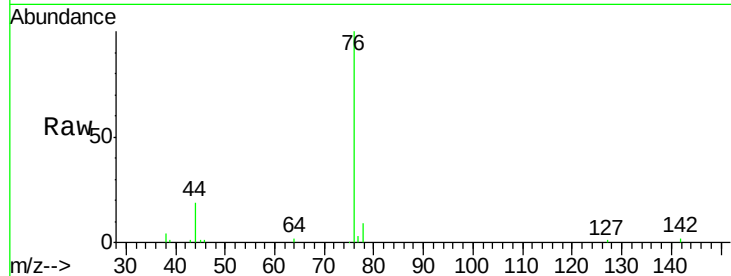
78 9.0 7.3 10.9

Manual Integrations

APPROVED

MMDadoda

1/24/2019 11:43:50 AM



Abundance Ion 75.90 (75.60 to 76.60): VV0

Ion 77.90 (77.60 to 78.60): VV0

2.31

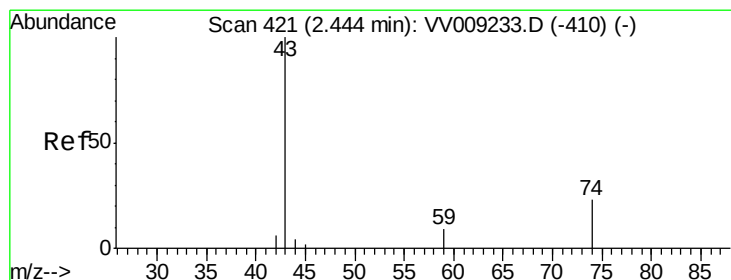
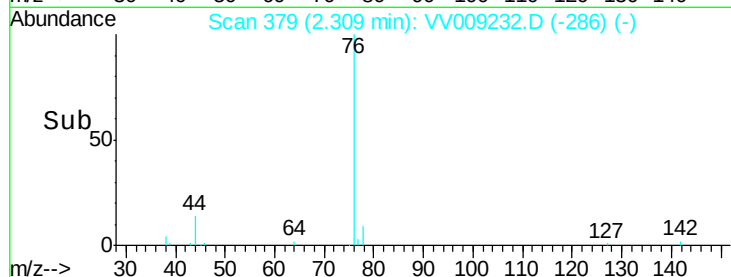
30000

20000

10000

0

Time-->



#18

Methyl Acetate

Concen: 19.716 ug/l

RT: 2.44 min Scan# 421

Delta R.T. 0.00 min

Lab File: VV009232.D

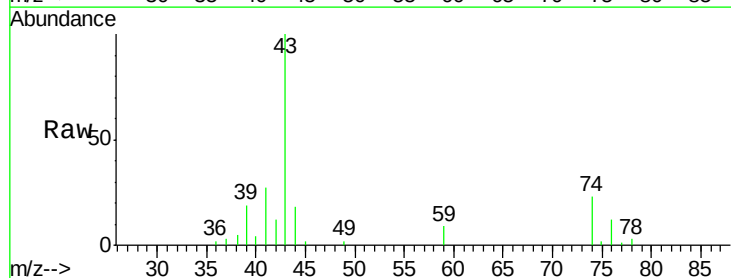
Acq: 22 Jan 2019 12:57

Tgt Ion: 43 Resp: 15167

Ion Ratio Lower Upper

43 100

74 22.8 19.7 29.5



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 74.00 (73.70 to 74.70): VV0

2.44

10000

8000

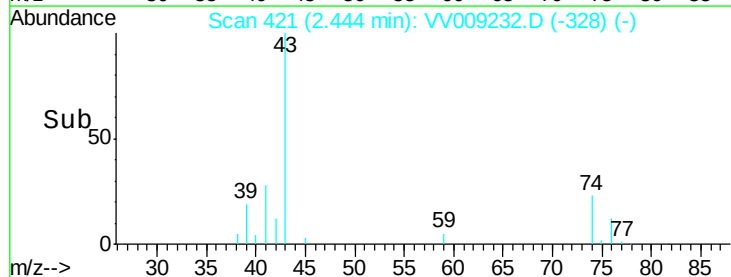
6000

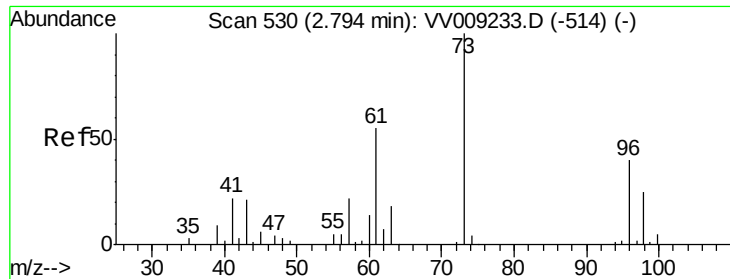
4000

2000

0

Time-->





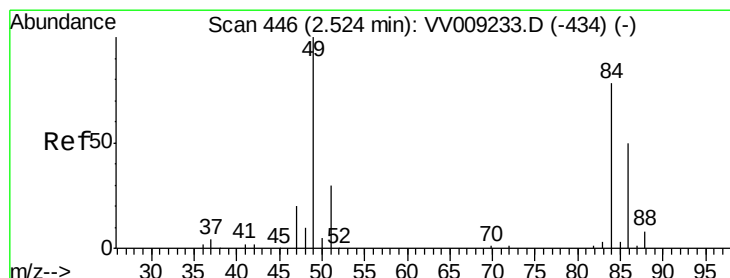
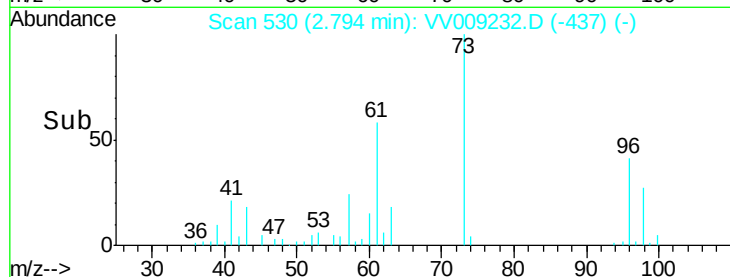
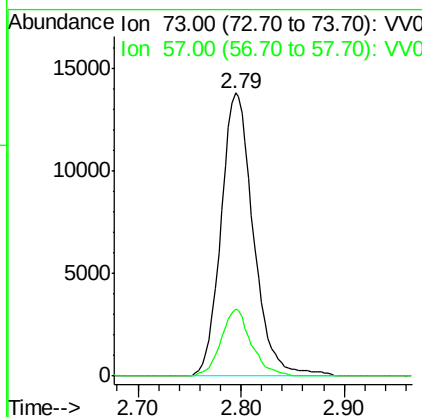
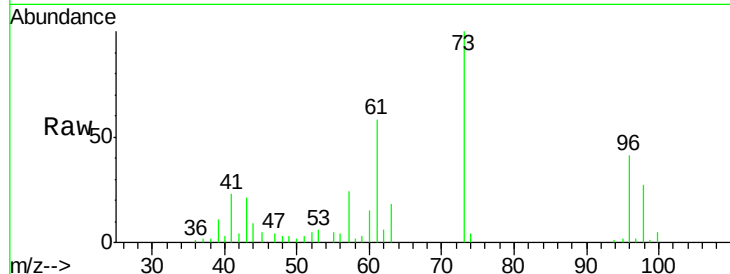
#19
Methyl tert-butyl Ether
Concen: 20.807 ug/l
RT: 2.79 min Scan# 530
Delta R.T. 0.00 min
Lab File: VV009232.D
Acq: 22 Jan 2019 12:57

Instrument :
MSVOA_V
ClientSampleId :
VSTDIC020

Tot Ion: 73 Resp: 30166
Ion Ratio Lower Upper
73 100
57 23.6 18.0 27.0

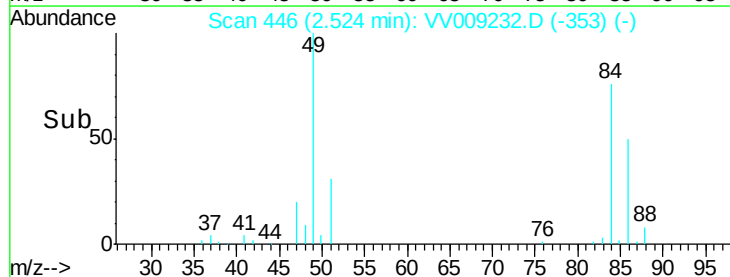
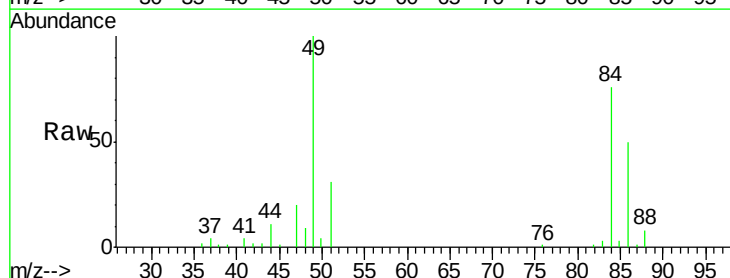
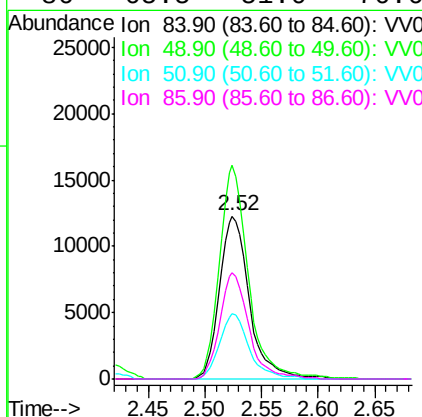
Manual Integrations
APPROVED

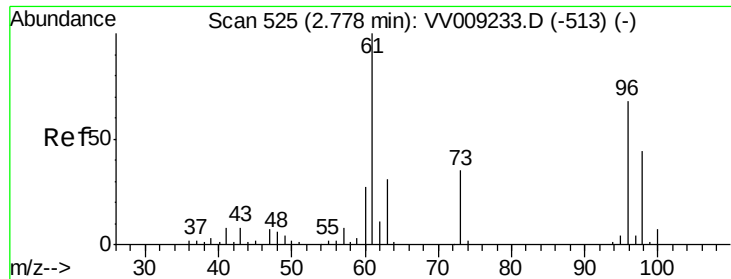
MMDadoda
1/24/2019 11:43:50 AM



#20
Methylene Chloride
Concen: 20.215 ug/l
RT: 2.52 min Scan# 446
Delta R.T. 0.00 min
Lab File: VV009232.D
Acq: 22 Jan 2019 12:57

Tgt Ion: 84 Resp: 22645
Ion Ratio Lower Upper
84 100
49 131.2 102.0 153.0
51 40.3 30.9 46.3
86 65.5 51.0 76.6





#21

trans-1,2-Dichloroethene

Concen: 21.269 ug/l

RT: 2.78 min Scan# 526

Delta R.T. 0.00 min

Lab File: VV009232.D

Acq: 22 Jan 2019 12:57

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC020

Tot Ion: 96 Resp: 21287

Ion Ratio Lower Upper

96 100

61 145.8 117.7 176.5

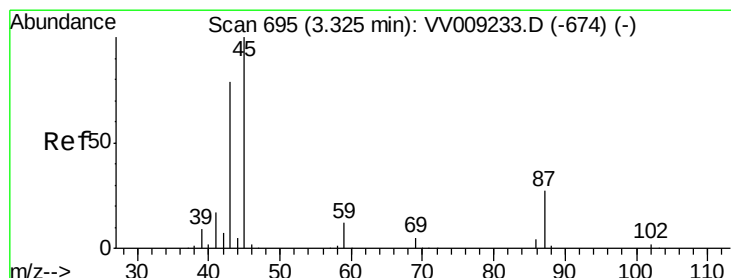
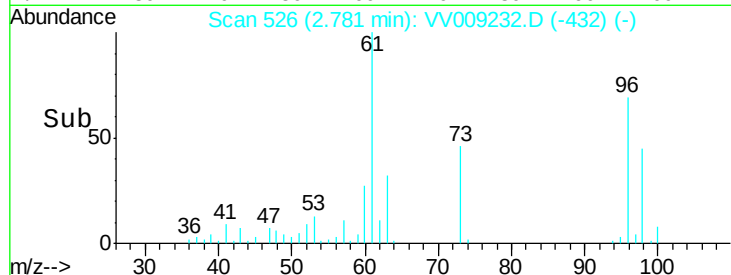
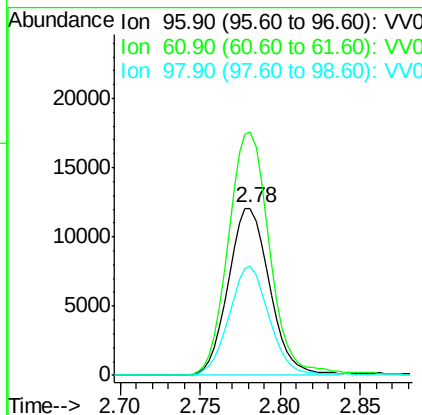
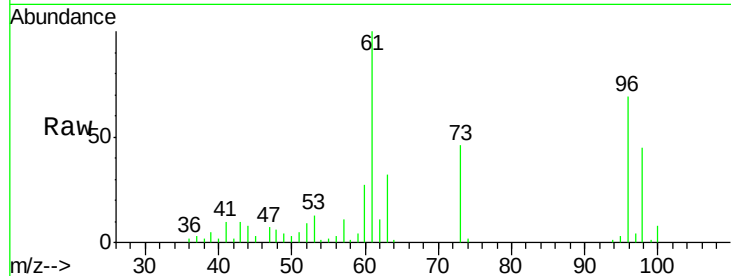
98 65.2 51.5 77.3

Manual Integrations

APPROVED

MMDadoda

1/24/2019 11:43:50 AM



#22

Diisopropyl ether

Concen: 19.795 ug/l

RT: 3.32 min Scan# 695

Delta R.T. 0.00 min

Lab File: VV009232.D

Acq: 22 Jan 2019 12:57

Tgt Ion: 45 Resp: 71715

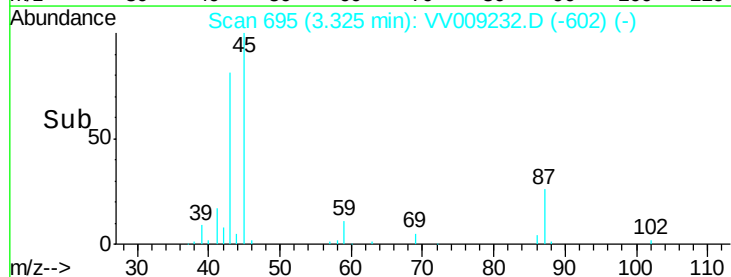
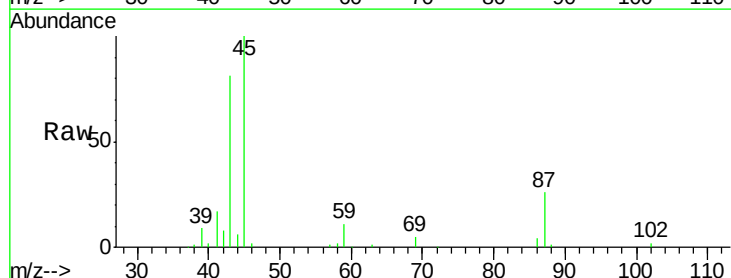
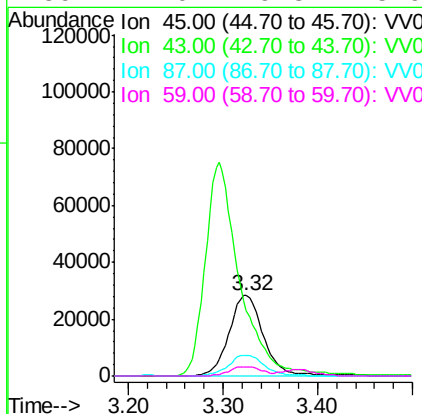
Ion Ratio Lower Upper

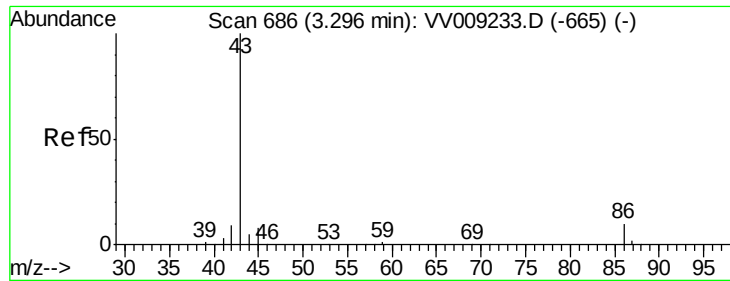
45 100

43 78.3 63.0 94.4

87 26.1 21.5 32.3

59 11.0 9.3 13.9





#23

Vinyl Acetate

Concen: 95.523 ug/l

RT: 3.30 min Scan# 686

Delta R.T. 0.00 min

Lab File: VV009232.D

Acq: 22 Jan 2019 12:57

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 191019

Ion Ratio Lower Upper

43 100

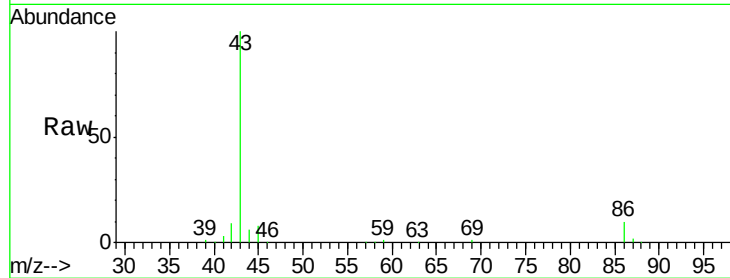
86 10.2 8.1 12.1

Manual Integrations

APPROVED

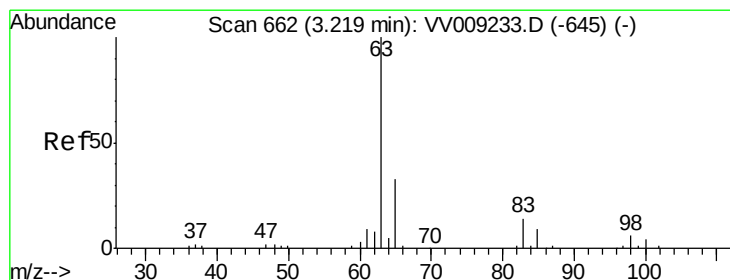
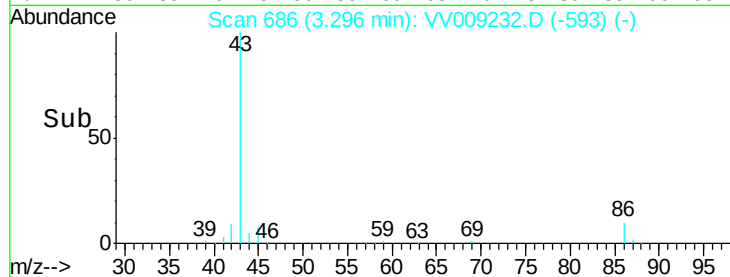
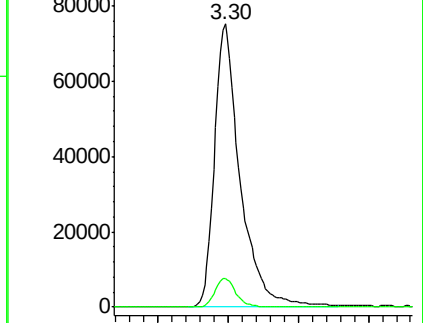
MMDadoda

1/24/2019 11:43:50 AM



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 86.00 (85.70 to 86.70): VV0



#24

1,1-Dichloroethane

Concen: 20.043 ug/l

RT: 3.22 min Scan# 662

Delta R.T. 0.00 min

Lab File: VV009232.D

Acq: 22 Jan 2019 12:57

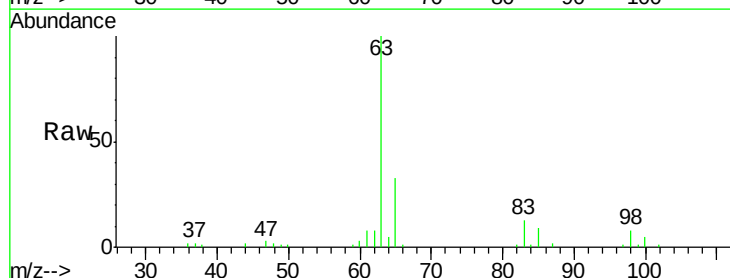
Tgt Ion: 63 Resp: 44048

Ion Ratio Lower Upper

63 100

98 7.7 3.3 9.8

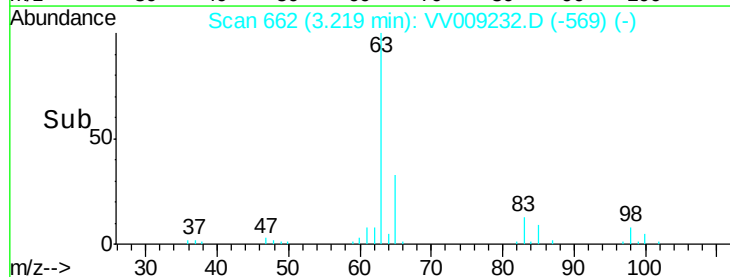
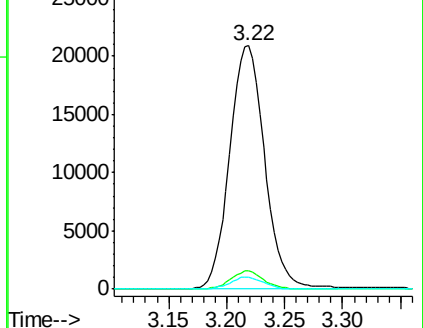
100 4.8 2.2 6.6

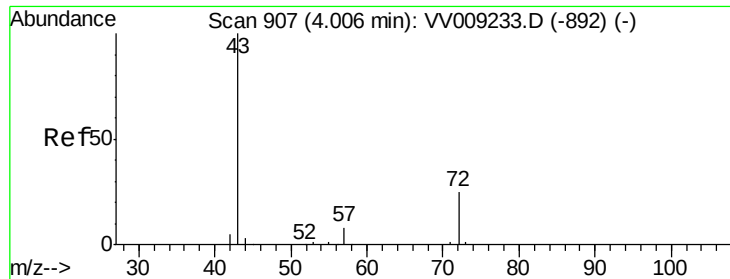


Abundance Ion 62.90 (62.60 to 63.60): VV0

Ion 97.90 (97.60 to 98.60): VV0

Ion 99.90 (99.60 to 100.60): VV0





#25

2-Butanone

Concen: 95.441 ug/l

RT: 4.01 min Scan# 908

Delta R.T. 0.00 min

Lab File: VV009232.D

Acq: 22 Jan 2019 12:57

Instrument :

MSVOA_V

ClientSampled :

VSTDIC020

Tot Ion: 43 Resp: 33536

Ion Ratio Lower Upper

43 100

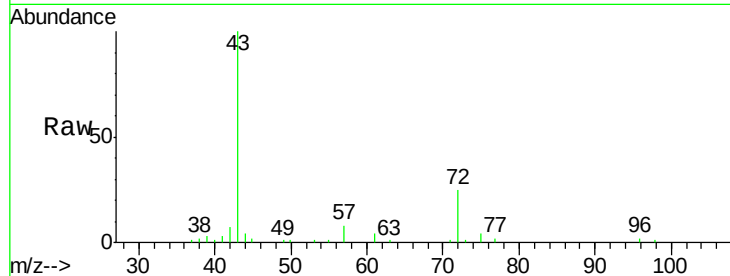
72 24.2 20.2 30.4

Manual Integrations

APPROVED

MMDadoda

1/24/2019 11:43:50 AM



Abundance Ion 43.00 (42.70 to 43.70): VV009232.D (-814) (-)

Ion 72.00 (71.70 to 72.70): VV009232.D (-814) (-)

15000

10000

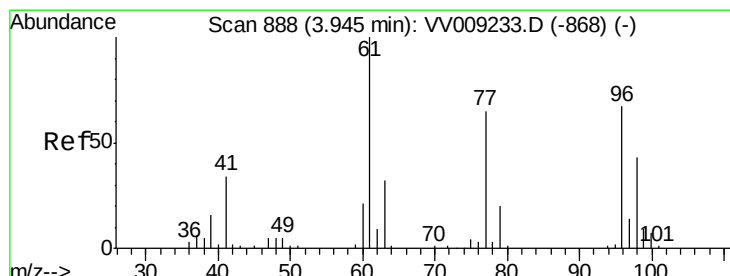
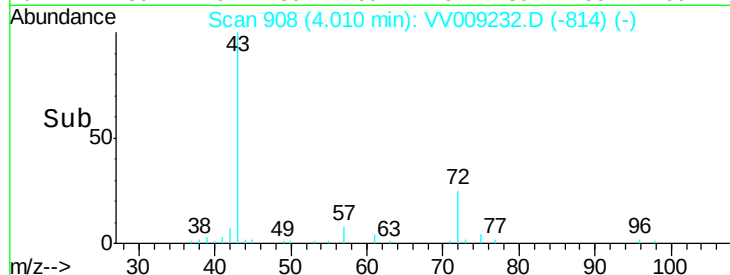
5000

0

Time-->

3.90 3.95 4.00 4.05 4.10

4.01



#26

2,2-Dichloropropane

Concen: 21.895 ug/l

RT: 3.95 min Scan# 888

Delta R.T. 0.00 min

Lab File: VV009232.D

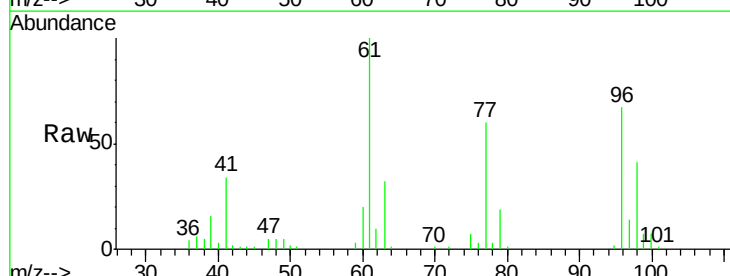
Acq: 22 Jan 2019 12:57

Tgt Ion: 77 Resp: 25438

Ion Ratio Lower Upper

77 100

97 22.7 10.9 32.6



Abundance Ion 76.90 (76.60 to 77.60): VV009232.D (-795) (-)

Ion 96.90 (96.60 to 97.60): VV009232.D (-795) (-)

10000

8000

6000

4000

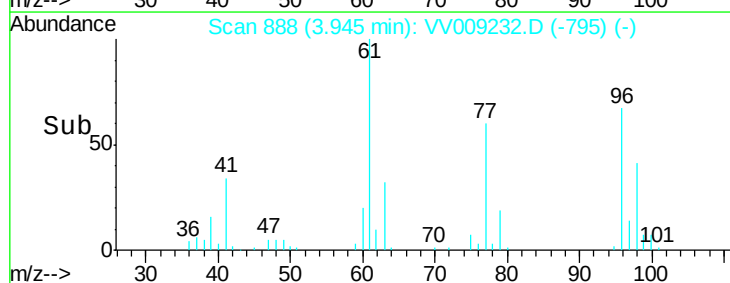
2000

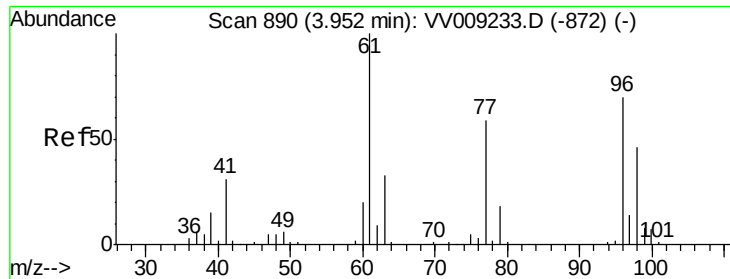
0

Time-->

3.90 3.95 4.00

3.95





#27

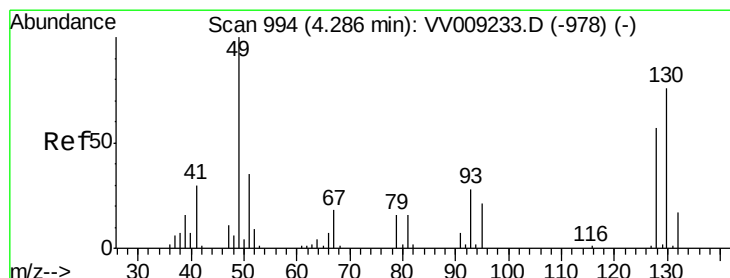
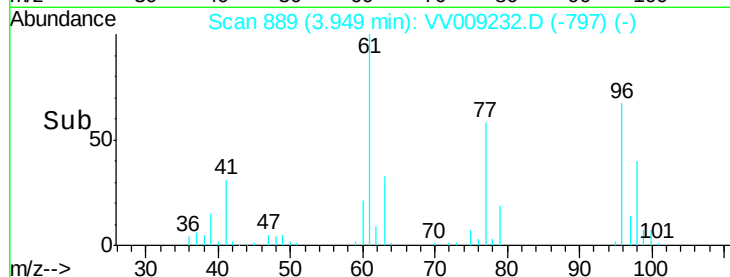
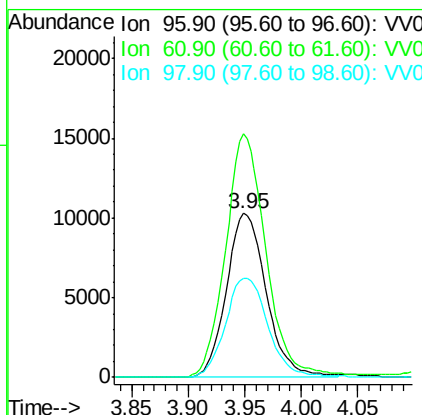
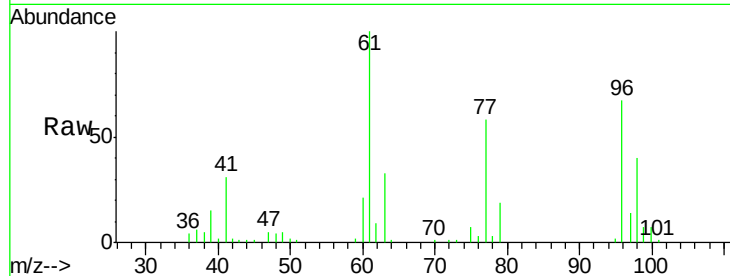
cis-1,2-Dichloroethene
Concen: 19.948 ug/l
RT: 3.95 min Scan# 889
Delta R.T. -0.00 min
Lab File: VV009232.D
Acq: 22 Jan 2019 12:57

Instrument :
MSVOA_V
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
96	100	25188		
61	150.7		0.0	296.4
98	64.9		0.0	130.0

Manual Integrations
APPROVED

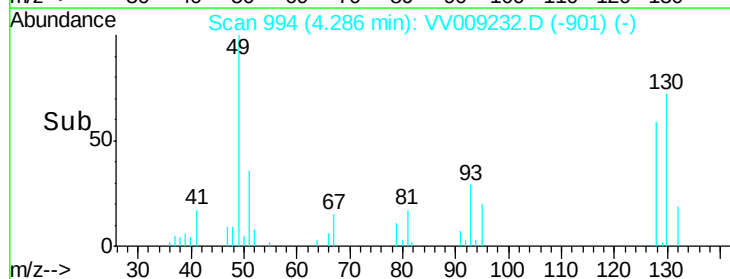
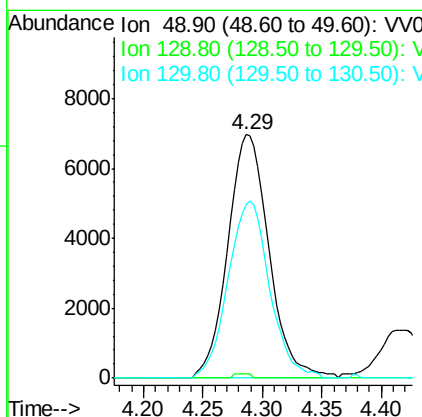
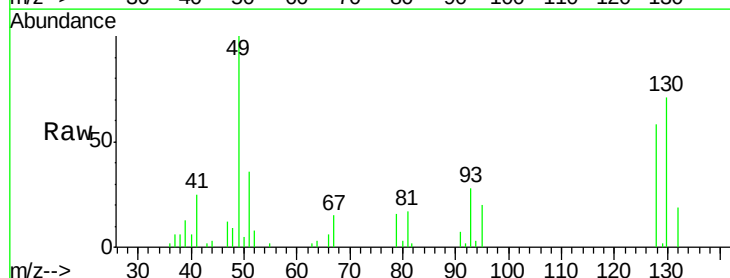
MMDadoda
1/24/2019 11:43:50 AM

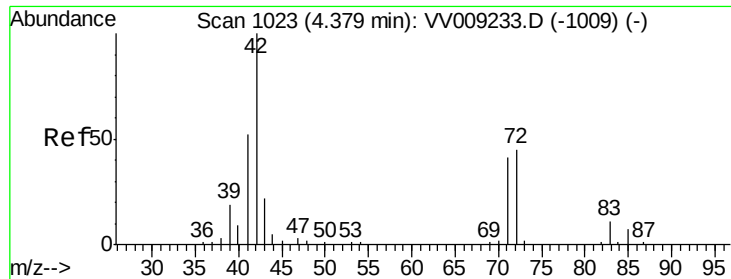


#28

Bromochloromethane
Concen: 19.859 ug/l
RT: 4.29 min Scan# 994
Delta R.T. 0.00 min
Lab File: VV009232.D
Acq: 22 Jan 2019 12:57

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	16757		
129	0.7		0.0	3.6
130	72.9		60.2	90.4





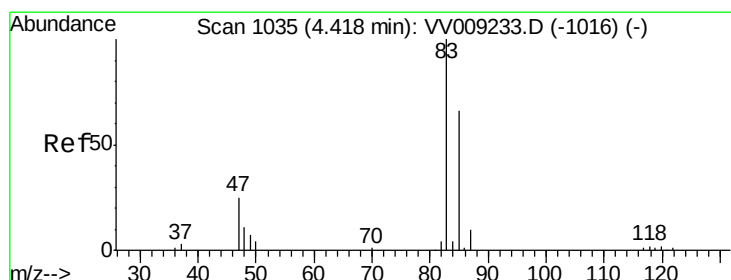
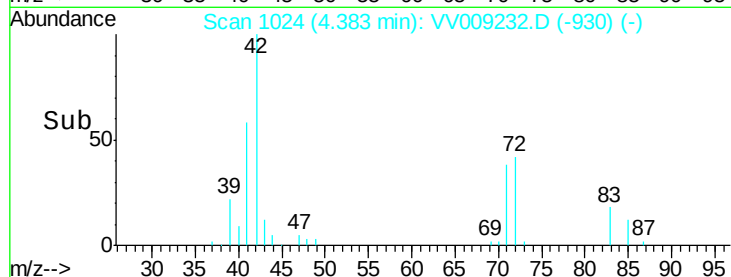
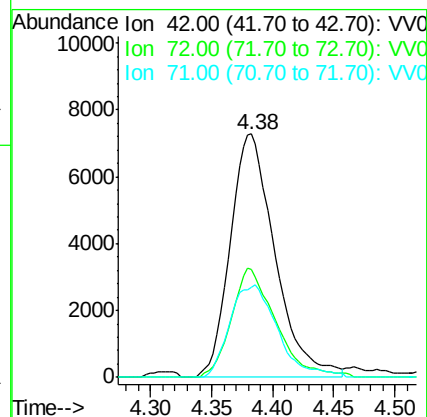
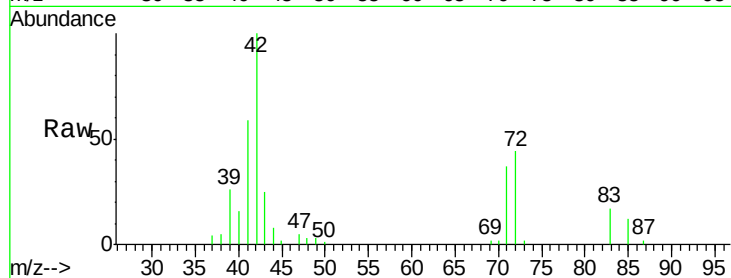
#29
Tetrahydrofuran
Concen: 92.477 ug/l
RT: 4.38 min Scan# 1024
Delta R.T. 0.00 min
Lab File: VV009232.D
Acq: 22 Jan 2019 12:57

Instrument :
MSVOA_V
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.4	37.7	56.5
71	40.5	31.5	47.3

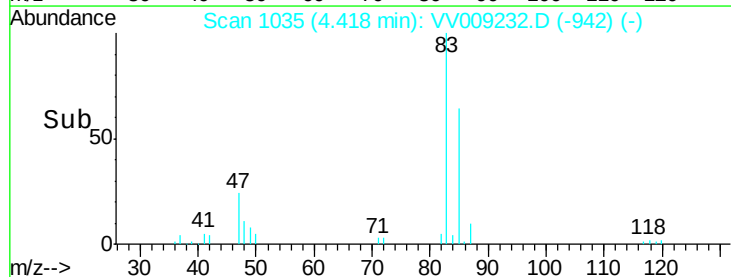
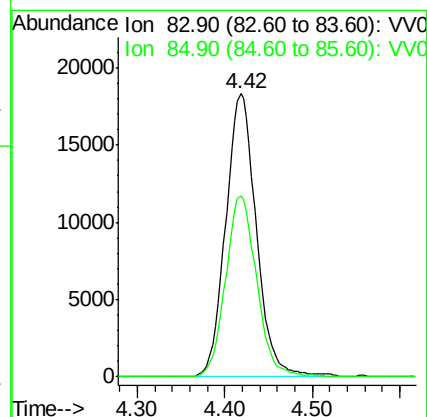
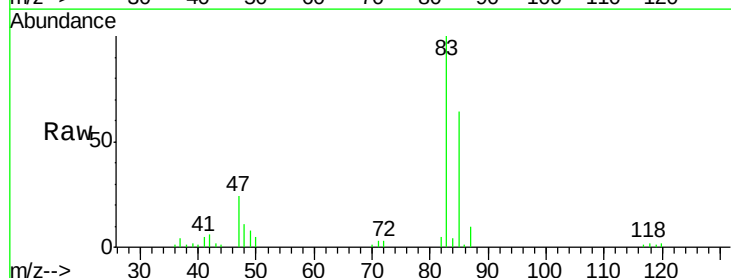
Manual Integrations
APPROVED

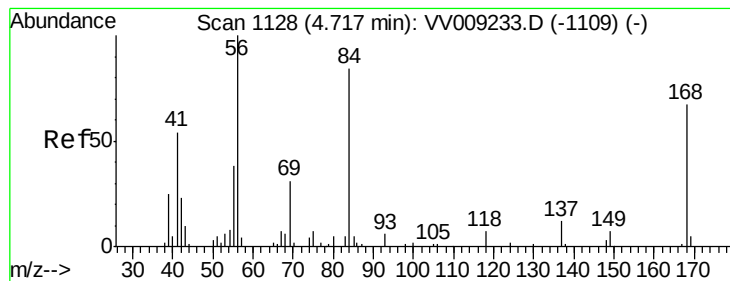
MMDadoda
1/24/2019 11:43:50 AM



#30
Chloroform
Concen: 19.546 ug/l
RT: 4.42 min Scan# 1035
Delta R.T. 0.00 min
Lab File: VV009232.D
Acq: 22 Jan 2019 12:57

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.2	52.6	79.0





#31

Cyclohexane

Concen: 20.202 ug/l

RT: 4.72 min Scan# 1128

Delta R.T. 0.00 min

Lab File: VV009232.D

Acq: 22 Jan 2019 12:57

Instrument :

MSVOA_V

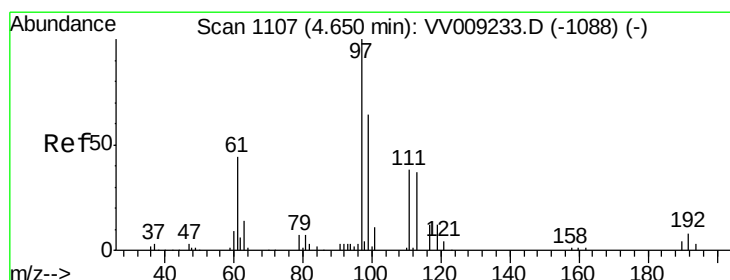
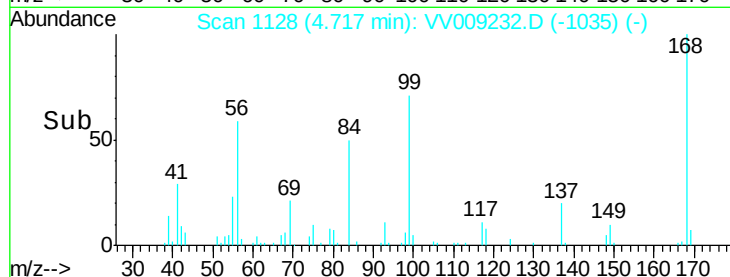
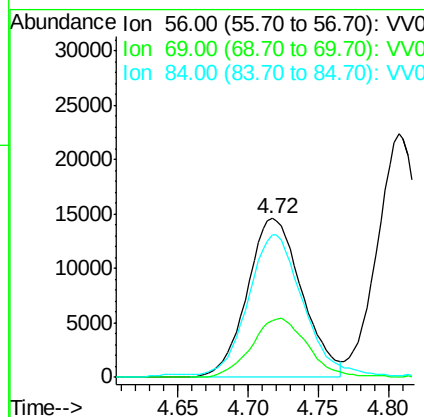
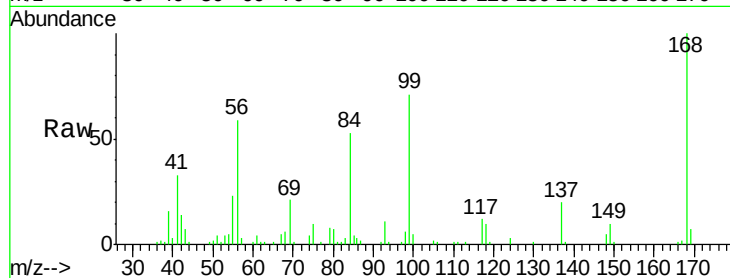
ClientSampleId :

VSTDIC020

Tot Ion:	56	Resp:	39566
Ion	Ratio	Lower	Upper
56	100		
69	35.9	25.1	37.7
84	87.9	67.3	100.9

Manual Integrations
APPROVED

MMDadoda
1/24/2019 11:43:50 AM



#32

1,1,1-Trichloroethane

Concen: 21.063 ug/l

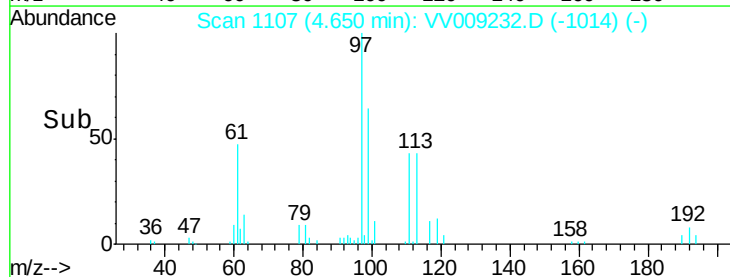
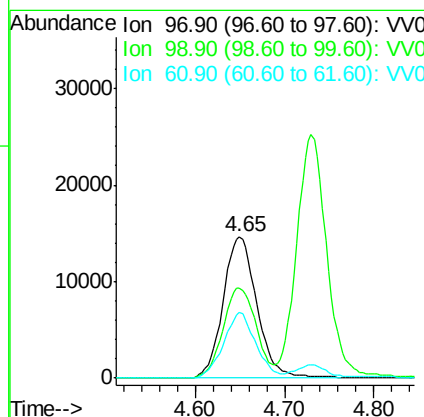
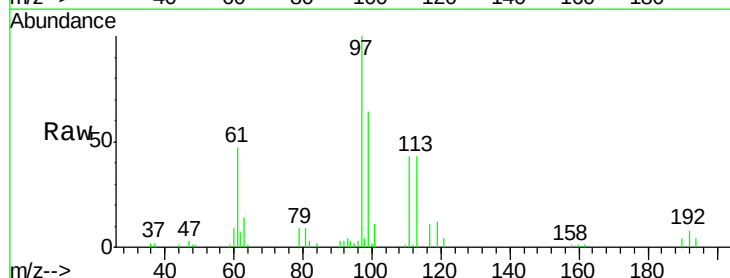
RT: 4.65 min Scan# 1107

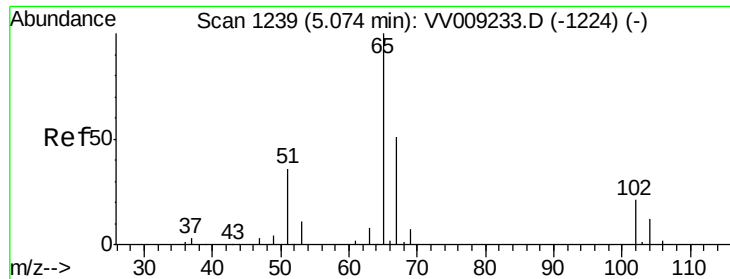
Delta R.T. 0.00 min

Lab File: VV009232.D

Acq: 22 Jan 2019 12:57

Tgt Ion:	97	Resp:	38385
Ion	Ratio	Lower	Upper
97	100		
99	62.9	50.2	75.2
61	43.8	34.7	52.1





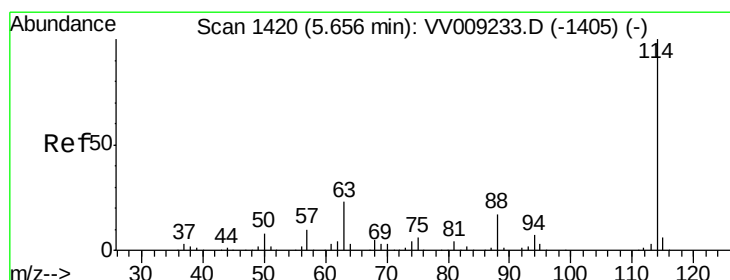
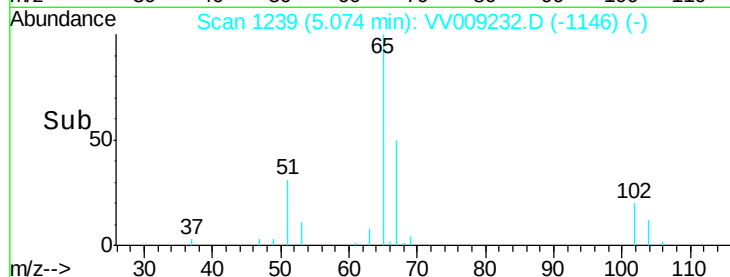
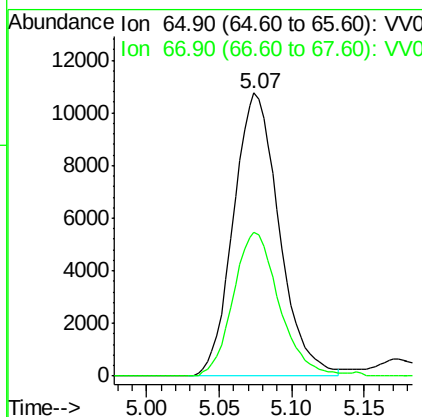
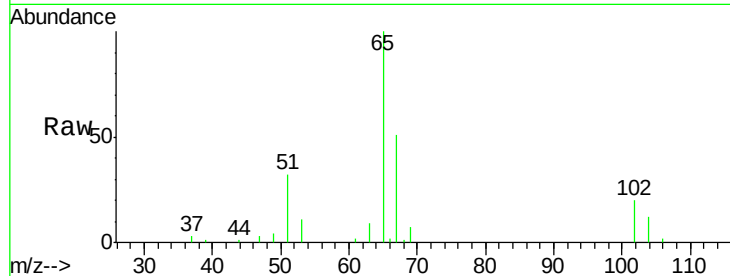
#33
 1,2-Dichloroethane-d4
 Concen: 19.448 ug/l
 RT: 5.07 min Scan# 1239
 Delta R.T. 0.00 min
 Lab File: VV009232.D
 Acq: 22 Jan 2019 12:57

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
65	100		
67	50.9	0.0	102.8

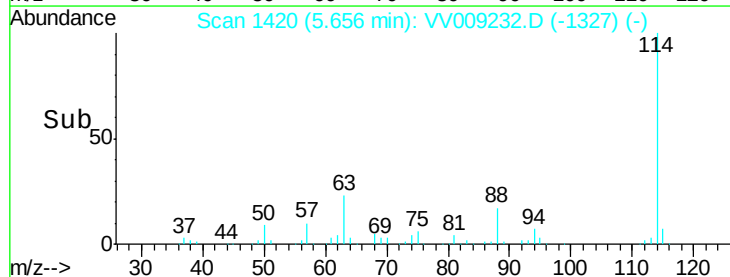
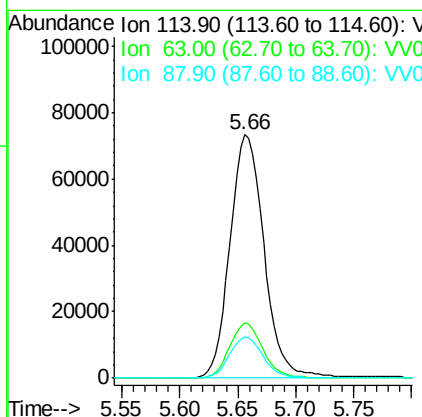
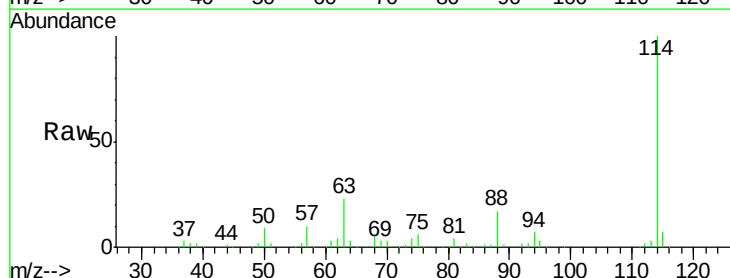
Manual Integrations
 APPROVED

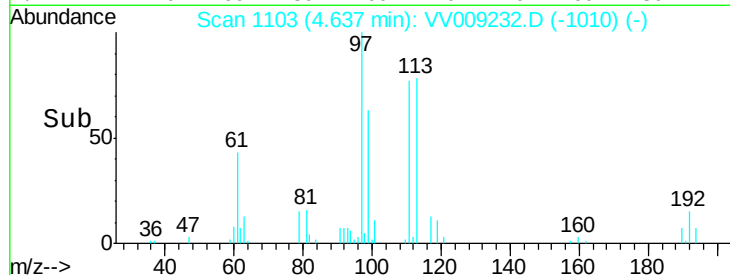
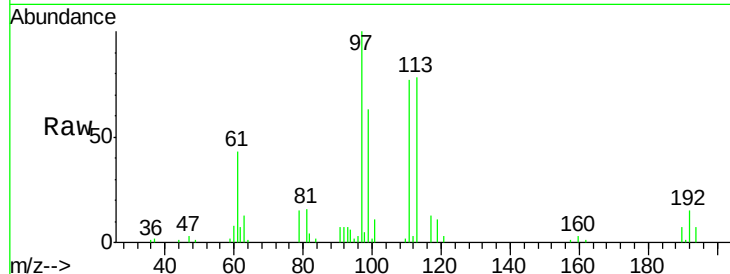
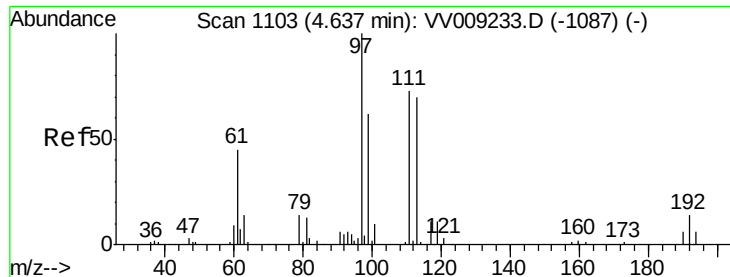
MMDadoda
 1/24/2019 11:43:50 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.66 min Scan# 1420
 Delta R.T. 0.00 min
 Lab File: VV009232.D
 Acq: 22 Jan 2019 12:57

Tgt Ion	Ratio	Lower	Upper
114	100		
63	22.6	0.0	45.2
88	16.9	0.0	33.4





#35

Dibromofluoromethane

Concen: 21.278 ug/l

RT: 4.64 min Scan# 1103

Delta R.T. 0.00 min

Lab File: VV009232.D

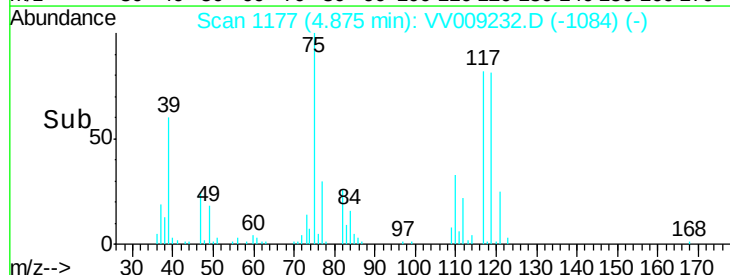
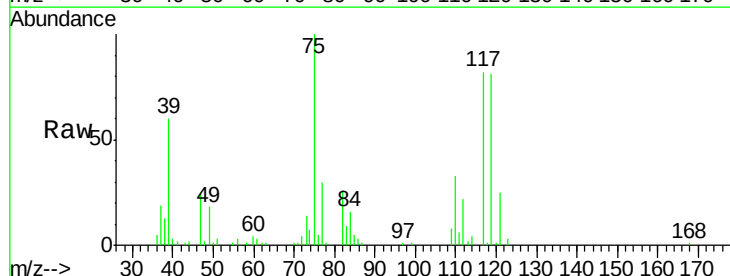
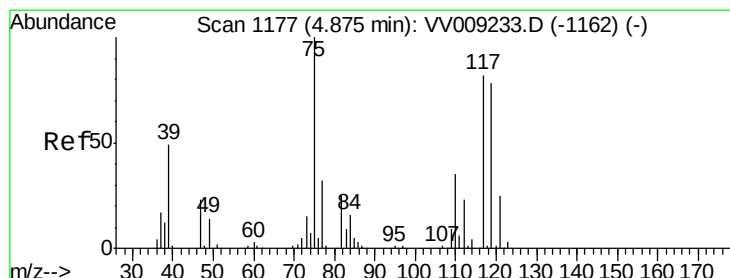
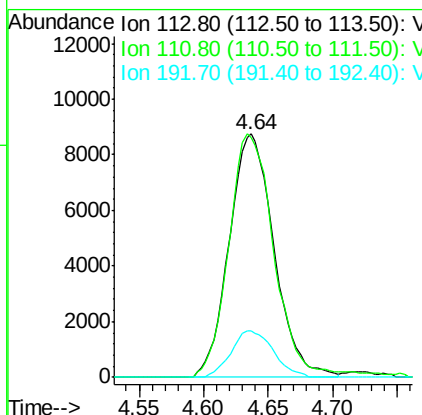
Acq: 22 Jan 2019 12:57

Tot Ion:	113	Resp:	21155
Ion Ratio	Lower	Upper	
113	100		
111	100.9	82.4	123.6
192	18.0	15.0	22.6

Instrument :
MSVOA_V
ClientSampleId :
VSTDIC020

Manual Integrations
APPROVED

MMDadoda
1/24/2019 11:43:50 AM



#36

1,1-Dichloropropene

Concen: 20.872 ug/l

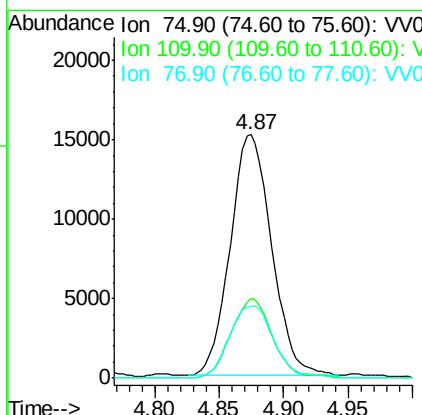
RT: 4.87 min Scan# 1177

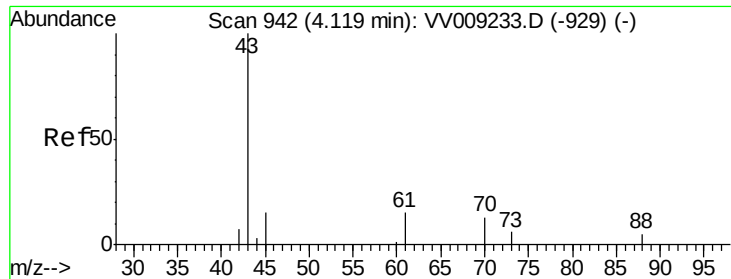
Delta R.T. 0.00 min

Lab File: VV009232.D

Acq: 22 Jan 2019 12:57

Tgt Ion:	75	Resp:	33879
Ion Ratio	Lower	Upper	
75	100		
110	32.5	17.5	52.5
77	32.1	25.5	38.3





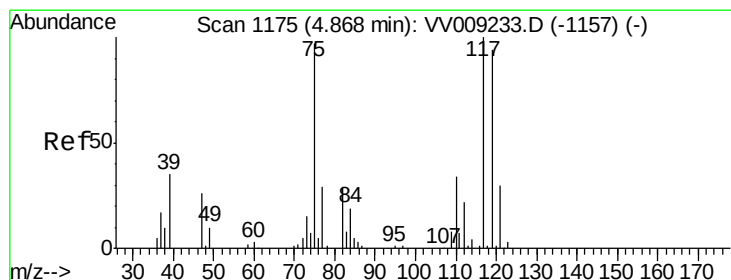
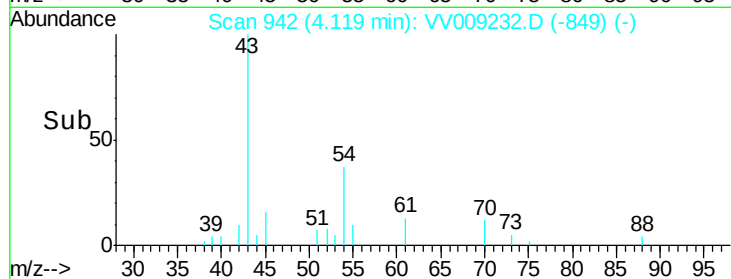
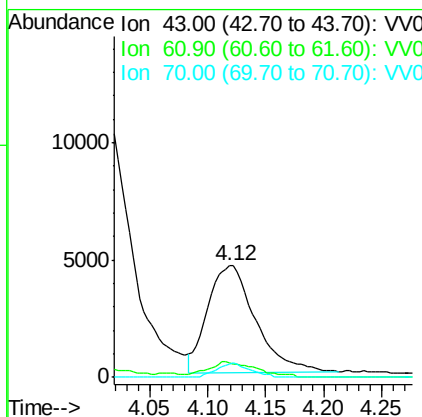
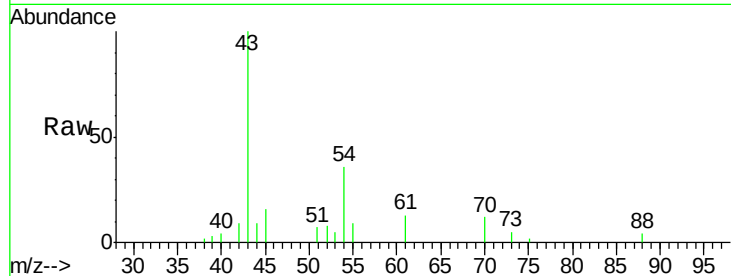
#37
Ethyl Acetate
Concen: 19.254 ug/l
RT: 4.12 min Scan# 942
Delta R.T. 0.00 min
Lab File: VV009232.D
Acq: 22 Jan 2019 12:57

Instrument :
MSVOA_V
ClientSampled :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.9	12.0	18.0
70	9.2	8.7	13.1

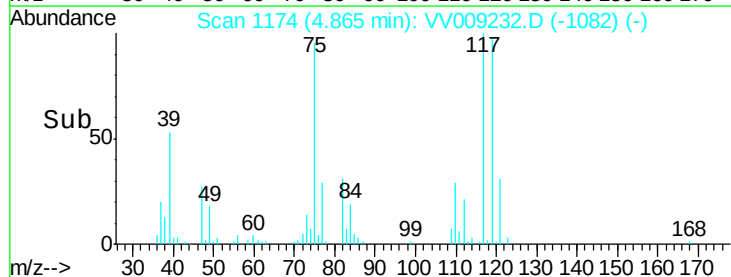
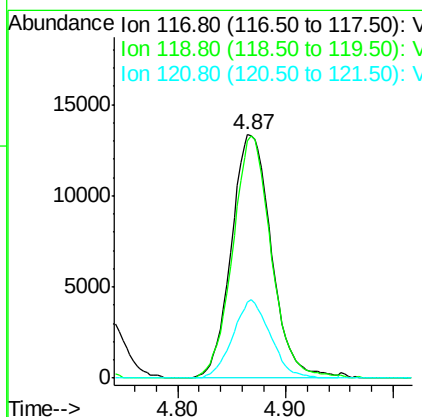
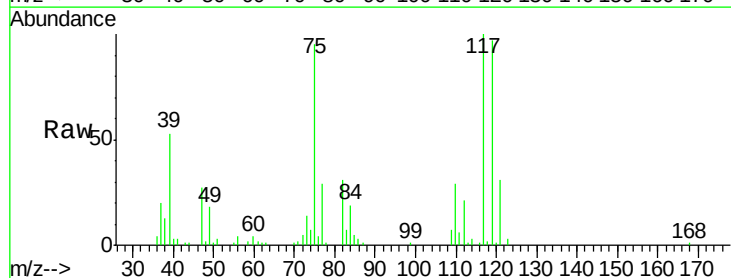
Manual Integrations
APPROVED

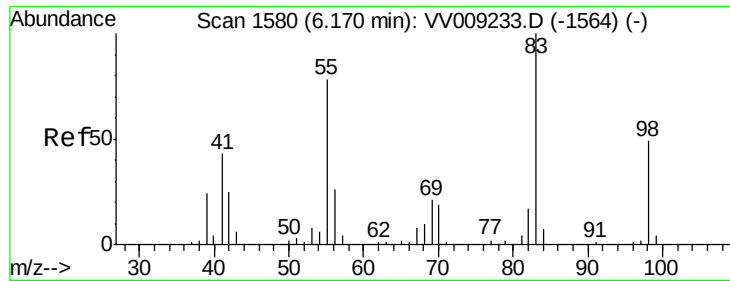
MMDadoda
1/24/2019 11:43:50 AM



#38
Carbon Tetrachloride
Concen: 21.358 ug/l
RT: 4.87 min Scan# 1174
Delta R.T. -0.00 min
Lab File: VV009232.D
Acq: 22 Jan 2019 12:57

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.3	75.4	113.2
121	31.3	24.2	36.2





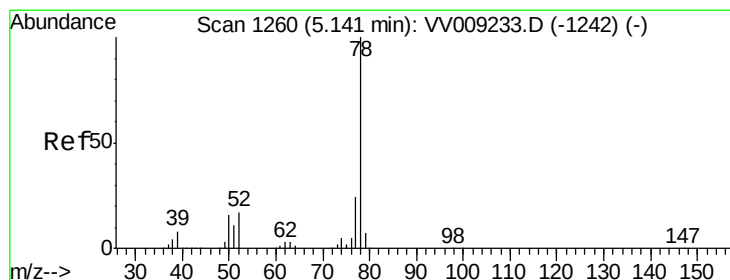
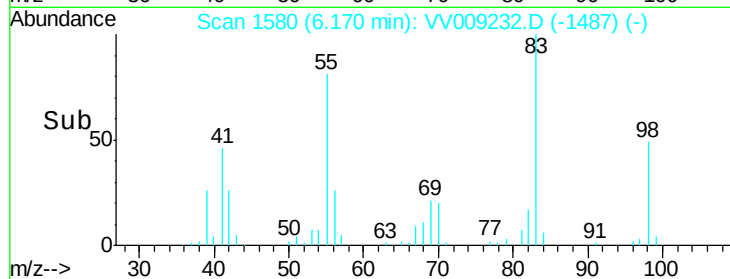
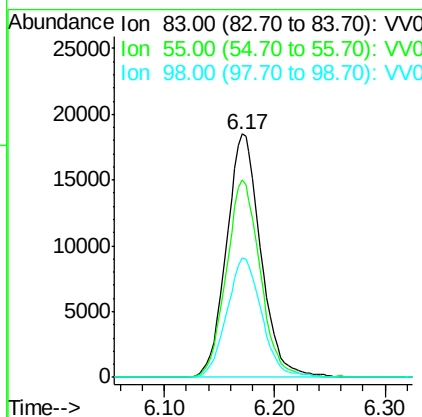
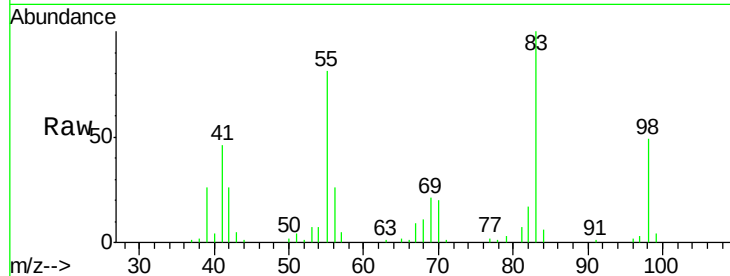
#39
Methylvlcyclohexane
Concen: 21.363 ug/l
RT: 6.17 min Scan# 1580
Delta R.T. 0.00 min
Lab File: VV009232.D
Acq: 22 Jan 2019 12:57

Instrument :
MSVOA_V
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
83	100		
55	81.3	62.8	94.2
98	48.9	39.1	58.7

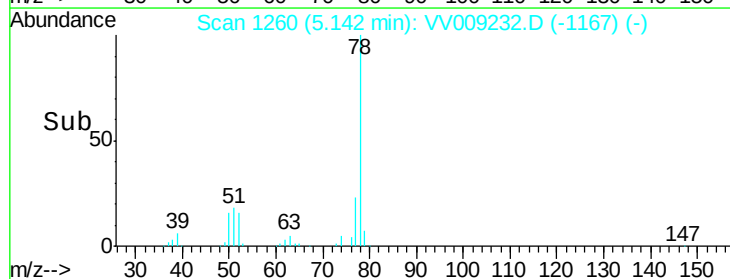
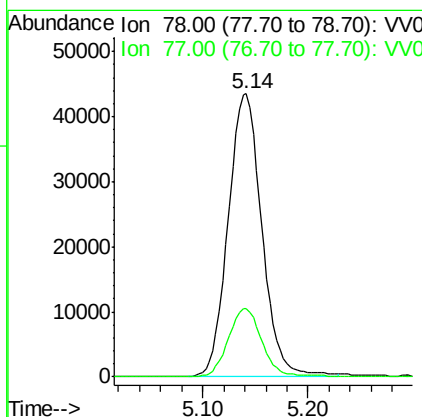
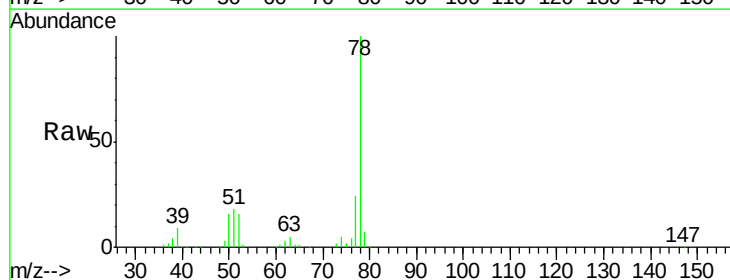
Manual Integrations
APPROVED

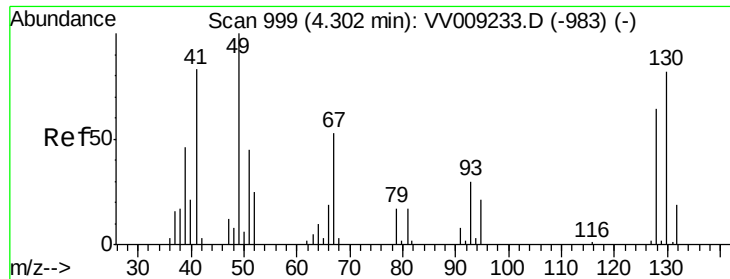
MMDadoda
1/24/2019 11:43:50 AM



#40
Benzene
Concen: 21.080 ug/l
RT: 5.14 min Scan# 1260
Delta R.T. 0.00 min
Lab File: VV009232.D
Acq: 22 Jan 2019 12:57

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.1	19.4	29.2





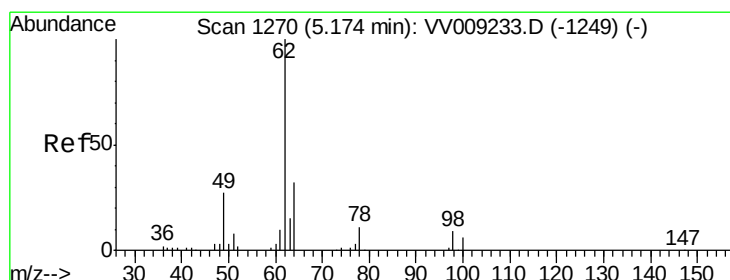
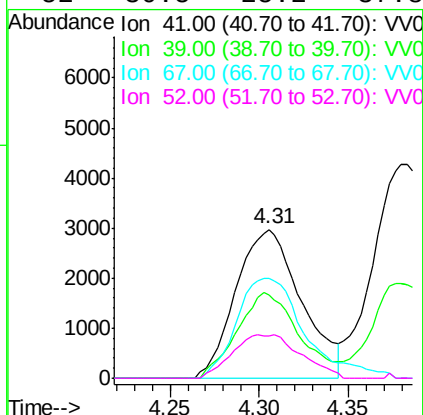
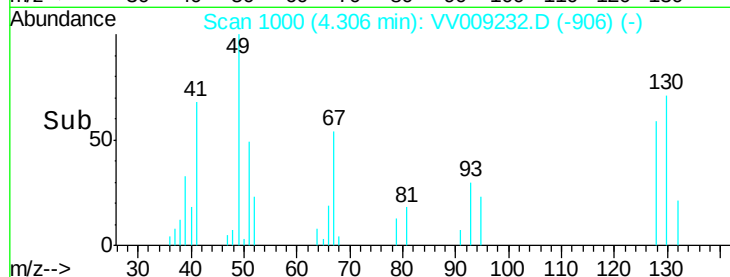
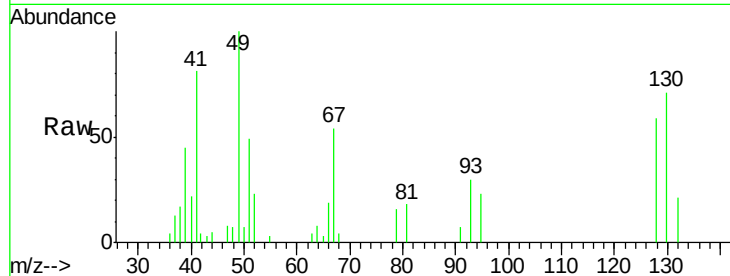
#41
Methacrylonitrile
Concen: 19.128 ug/l
RT: 4.31 min Scan# 1000
Delta R.T. 0.00 min
Lab File: VV009232.D
Acq: 22 Jan 2019 12:57

Instrument :
MSVOA_V
ClientSampleId :
VSTDIC020

Tot Ion:	41	Resp:	7594
Ion	Ratio	Lower	Upper
41	100		
39	54.4	45.4	68.0
67	70.1	55.5	83.3
52	30.5	25.2	37.8

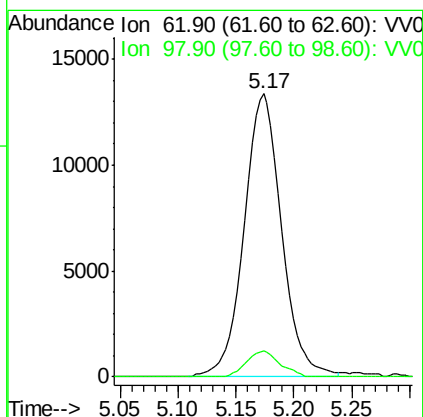
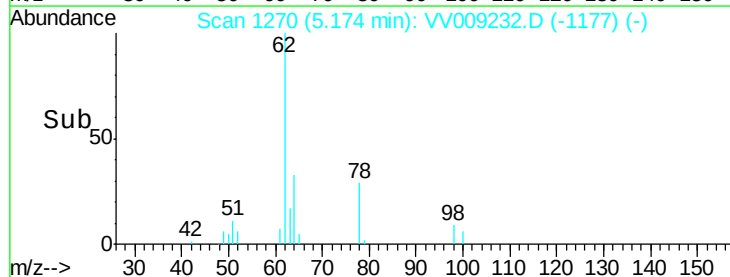
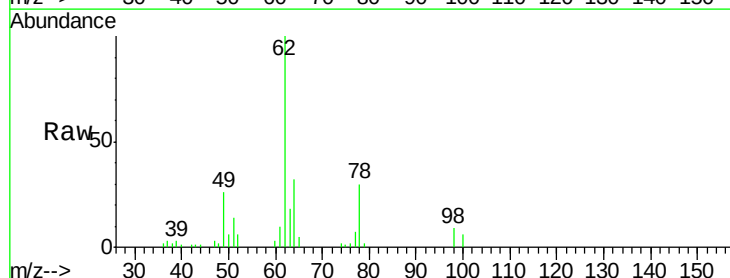
Manual Integrations
APPROVED

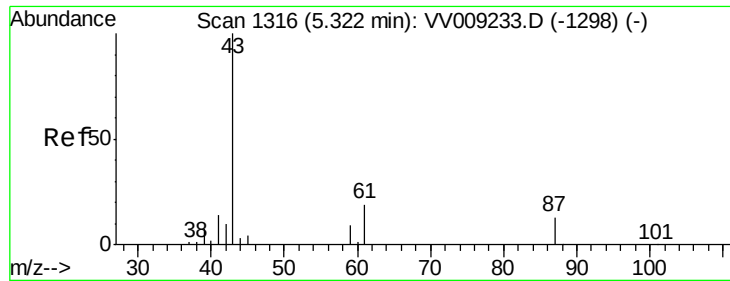
MMDadoda
1/24/2019 11:43:50 AM



#42
1,2-Dichloroethane
Concen: 19.715 ug/l
RT: 5.17 min Scan# 1270
Delta R.T. 0.00 min
Lab File: VV009232.D
Acq: 22 Jan 2019 12:57

Tgt Ion:	62	Resp:	30159
Ion	Ratio	Lower	Upper
62	100		
98	8.2	0.0	16.4





#43

Isopropyl Acetate

Concen: 19.059 ug/l

RT: 5.32 min Scan# 1316

Delta R.T. 0.00 min

Lab File: VV009232.D

Acq: 22 Jan 2019 12:57

Instrument :

MSVOA_V

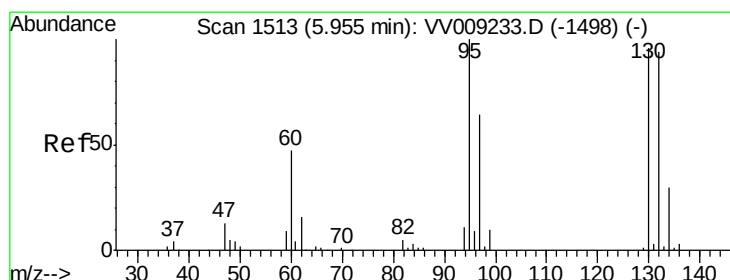
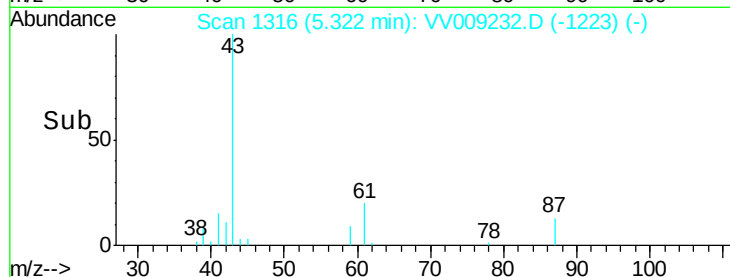
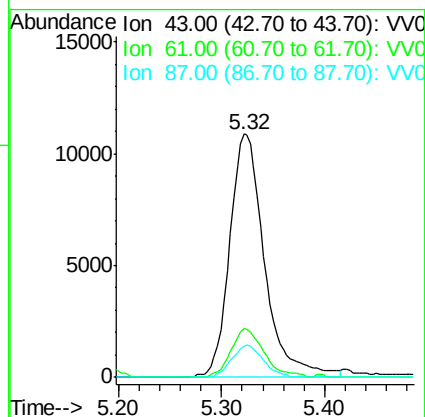
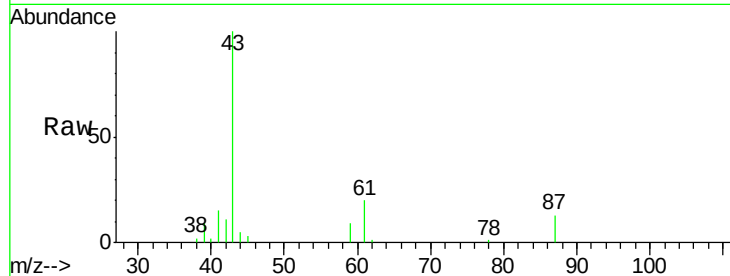
ClientSampleId :

VSTDIC020

Tot Ion:	43	Resp:	25677
Ion	Ratio	Lower	Upper
43	100		
61	19.0	15.4	23.0
87	11.9	9.9	14.9

Manual Integrations
APPROVED

MMDadoda
1/24/2019 11:43:50 AM



#44

Trichloroethene

Concen: 21.487 ug/l

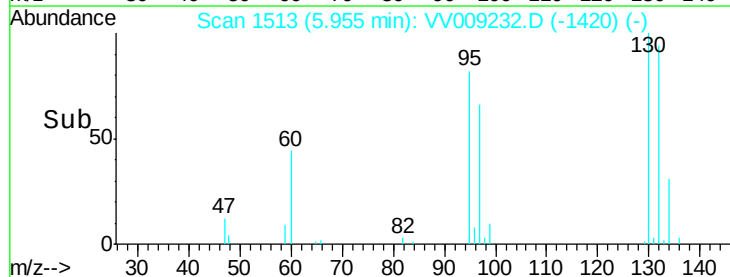
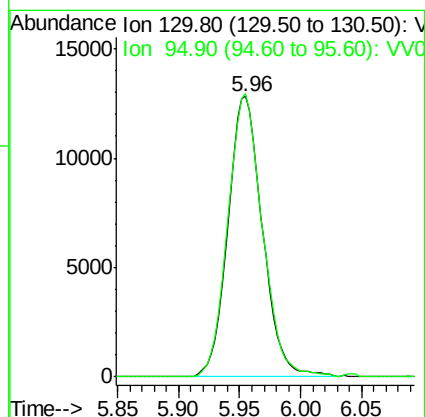
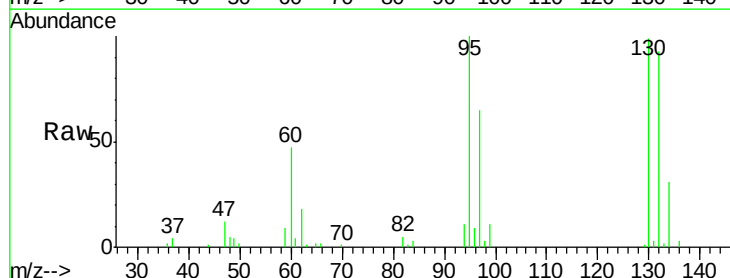
RT: 5.96 min Scan# 1513

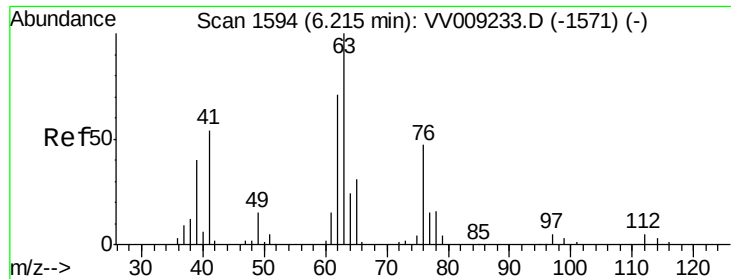
Delta R.T. 0.00 min

Lab File: VV009232.D

Acq: 22 Jan 2019 12:57

Tgt Ion:	130	Resp:	25364
Ion	Ratio	Lower	Upper
130	100		
95	100.9	0.0	208.2





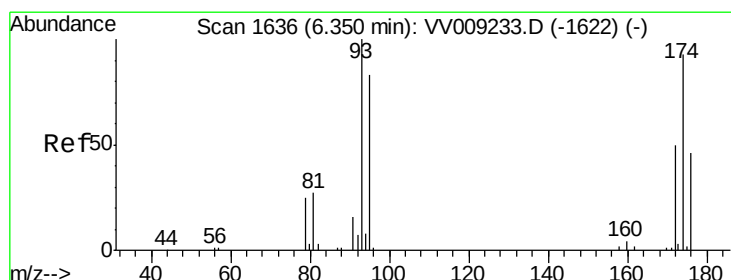
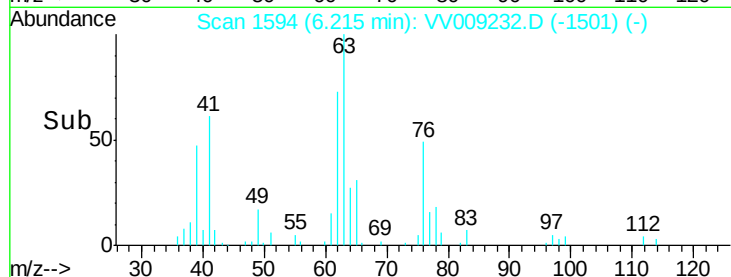
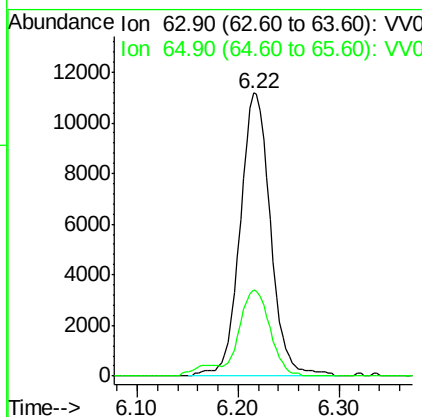
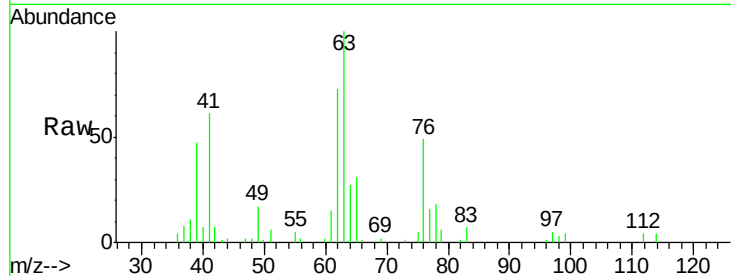
#45
 1,2-Dichloropropane
 Concen: 20.823 ug/l
 RT: 6.22 min Scan# 1594
 Delta R.T. 0.00 min
 Lab File: VV009232.D
 Acq: 22 Jan 2019 12:57

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDIC020

Tot Ion: 63 Resp: 23267
 Ion Ratio Lower Upper
 63 100
 65 30.5 25.1 37.7

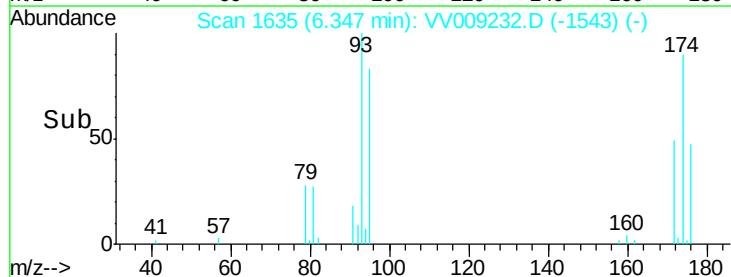
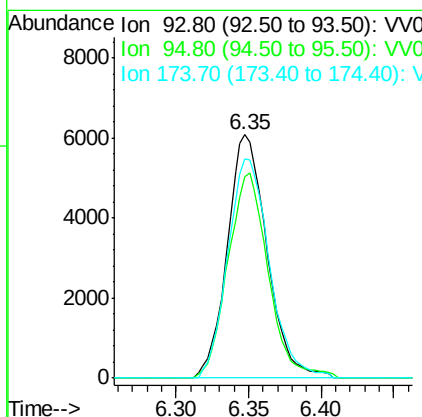
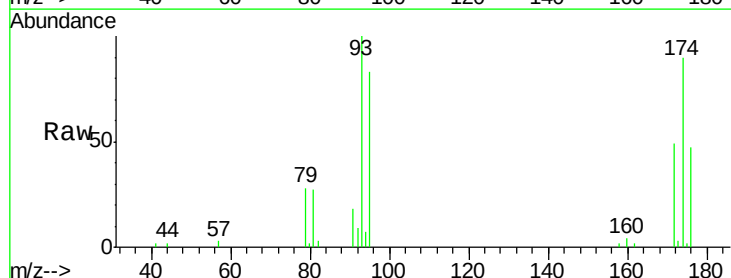
Manual Integrations
 APPROVED

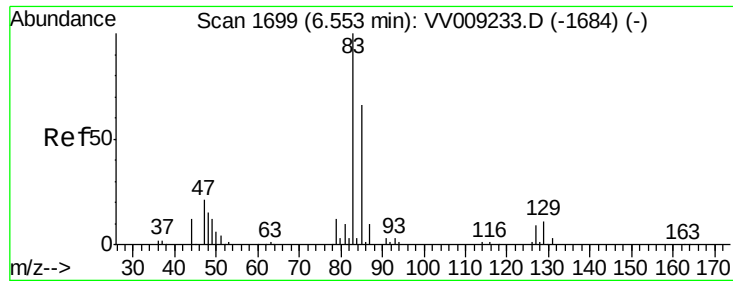
MMDadoda
 1/24/2019 11:43:50 AM



#46
 Dibromomethane
 Concen: 19.005 ug/l
 RT: 6.35 min Scan# 1635
 Delta R.T. -0.00 min
 Lab File: VV009232.D
 Acq: 22 Jan 2019 12:57

Tgt Ion: 93 Resp: 11571
 Ion Ratio Lower Upper
 93 100
 95 85.4 64.6 97.0
 174 94.3 74.0 111.0





#47

Bromodichloromethane

Concen: 19.748 ug/l

RT: 6.55 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VV009232.D

Acq: 22 Jan 2019 12:57

Instrument :

MSVOA_V

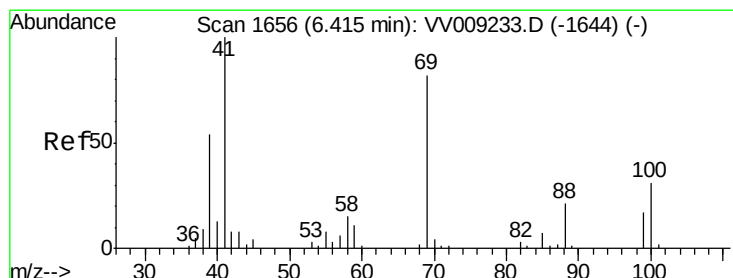
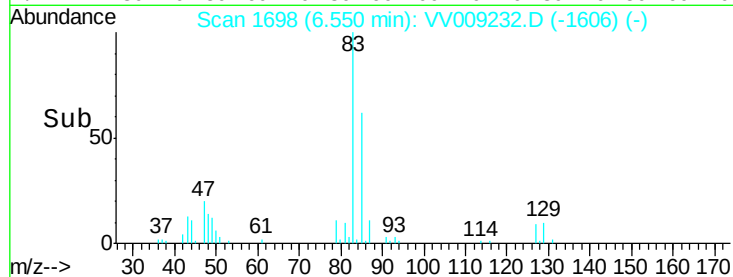
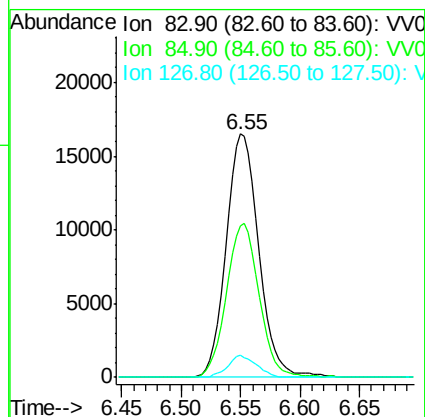
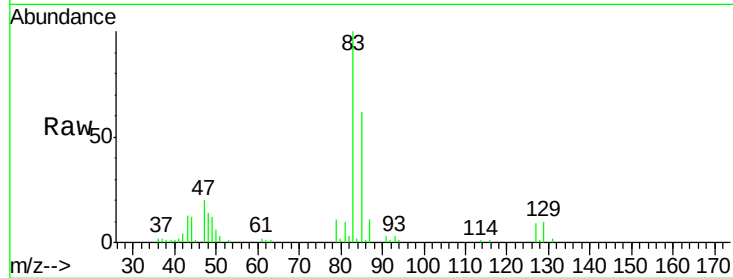
ClientSampleId :

VSTDIC020

Tot Ion:	83	Resp:	31365
Ion	Ratio	Lower	Upper
83	100		
85	62.2	52.6	78.8
127	8.9	7.0	10.6

Manual Integrations
APPROVED

MMDadoda
1/24/2019 11:43:50 AM



#48

Methyl methacrylate

Concen: 18.279 ug/l

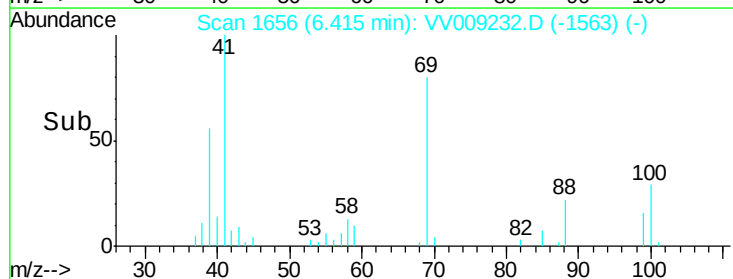
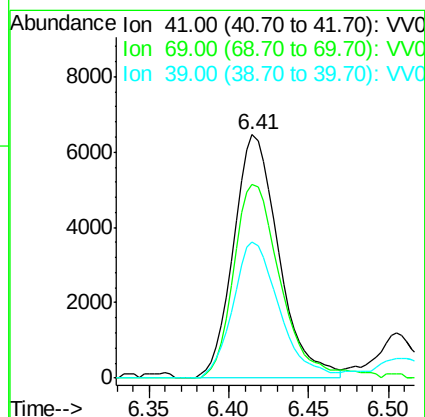
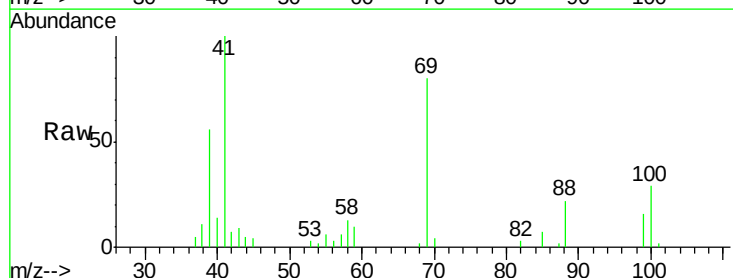
RT: 6.41 min Scan# 1656

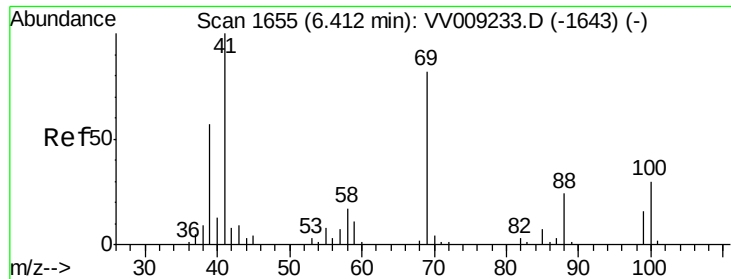
Delta R.T. 0.00 min

Lab File: VV009232.D

Acq: 22 Jan 2019 12:57

Tgt Ion:	41	Resp:	12482
Ion	Ratio	Lower	Upper
41	100		
69	82.8	65.8	98.6
39	56.9	43.4	65.0





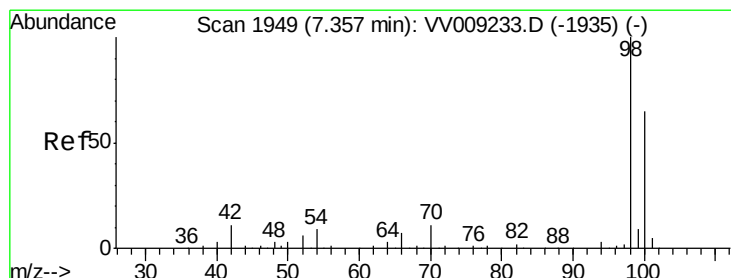
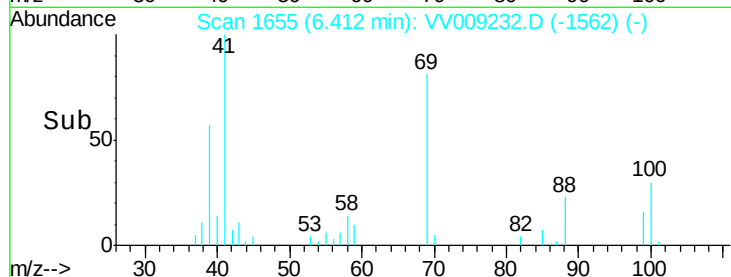
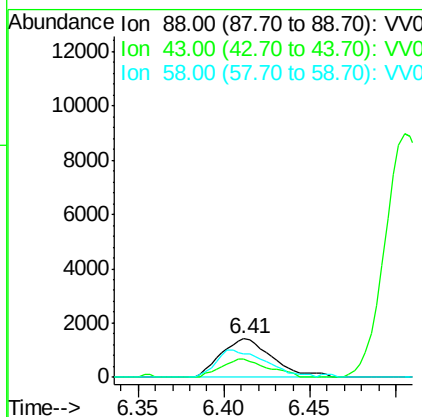
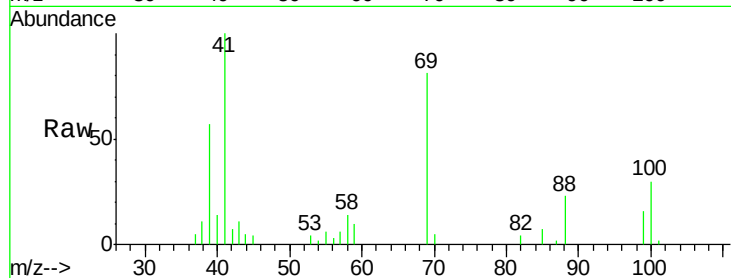
#49
1,4-Dioxane
Concen: 376.751 ug/l
RT: 6.41 min Scan# 1655
Delta R.T. 0.00 min
Lab File: VV009232.D
Acq: 22 Jan 2019 12:57

Instrument :
MSVOA_V
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
88	100		
43	42.6	31.9	47.9
58	68.8	62.0	93.0

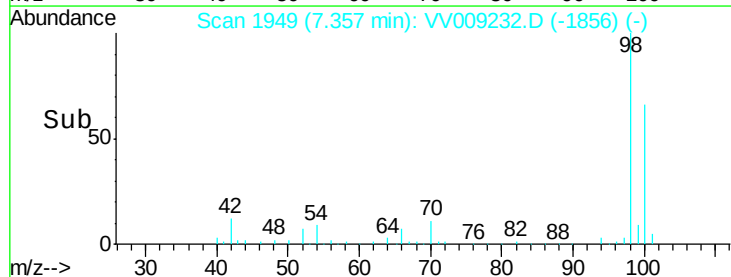
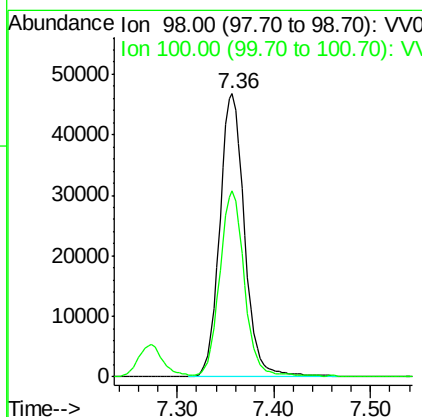
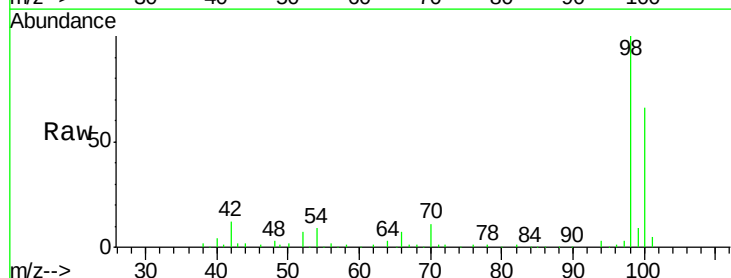
Manual Integrations
APPROVED

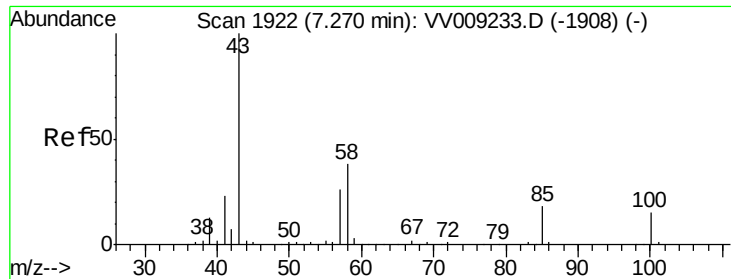
MMDadoda
1/24/2019 11:43:50 AM



#50
Toluene-d8
Concen: 21.795 ug/l
RT: 7.36 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VV009232.D
Acq: 22 Jan 2019 12:57

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.2	52.2	78.2





#51

4-Methyl-2-Pentanone

Concen: 95.033 ug/l

RT: 7.27 min Scan# 1922

Delta R.T. 0.00 min

Lab File: VV009232.D

Acq: 22 Jan 2019 12:57

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 64046

Ion Ratio Lower Upper

43 100

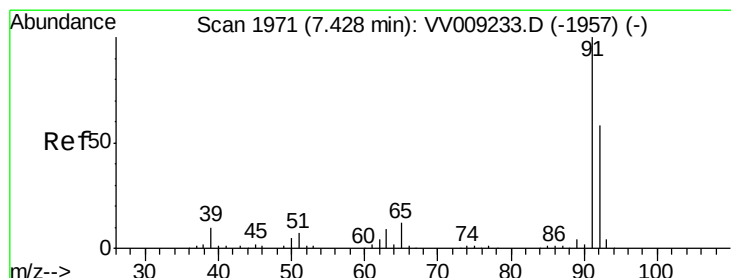
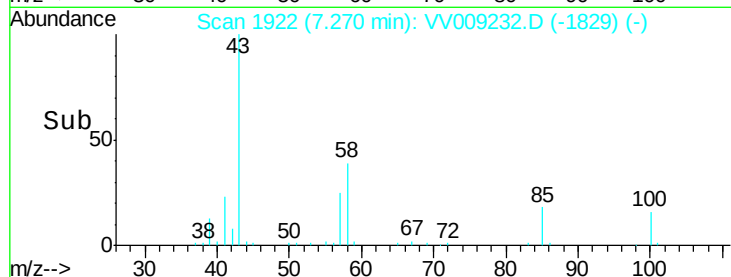
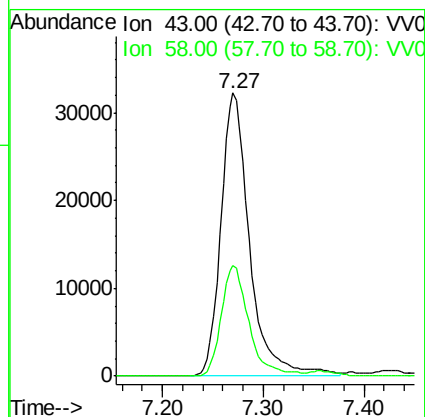
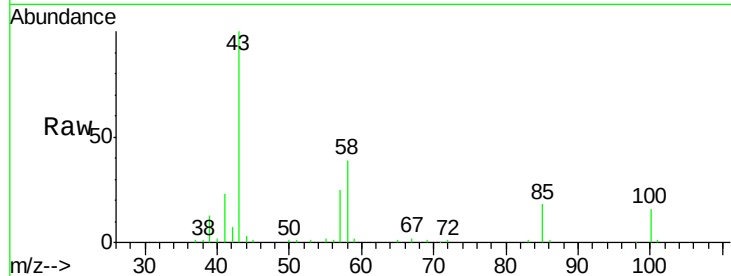
58 37.8 30.4 45.6

Manual Integrations

APPROVED

MMDadoda

1/24/2019 11:43:50 AM



#52

Toluene

Concen: 21.413 ug/l

RT: 7.43 min Scan# 1971

Delta R.T. 0.00 min

Lab File: VV009232.D

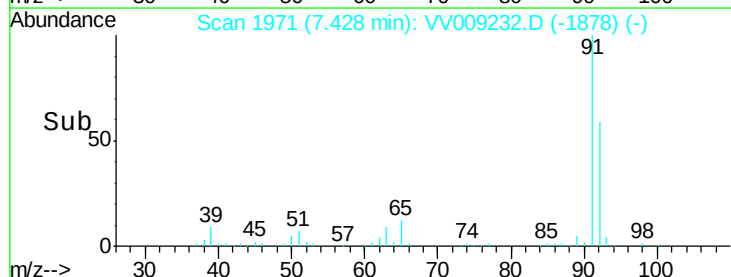
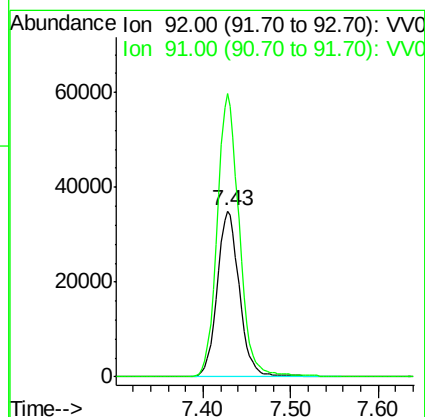
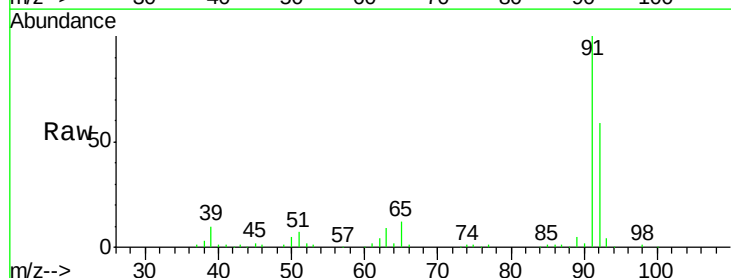
Acq: 22 Jan 2019 12:57

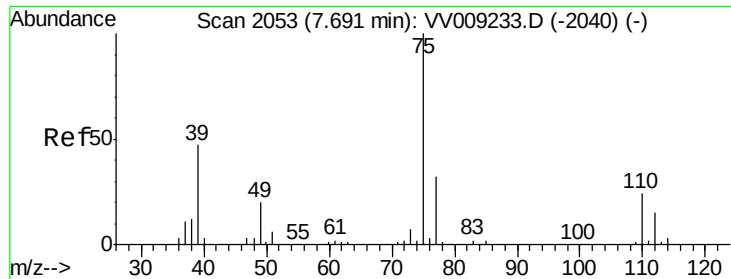
Tgt Ion: 92 Resp: 61623

Ion Ratio Lower Upper

92 100

91 168.7 137.2 205.8





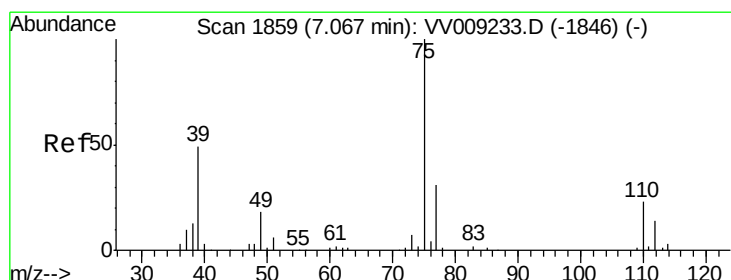
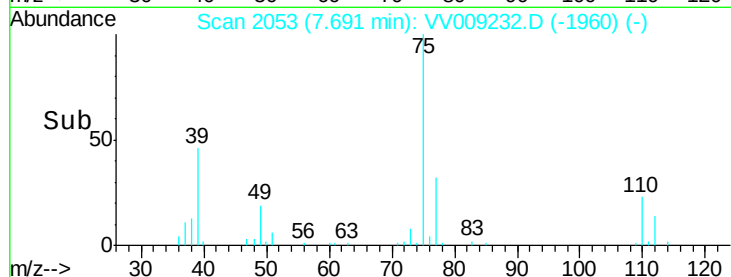
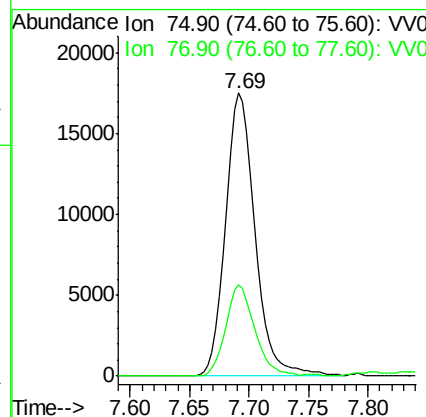
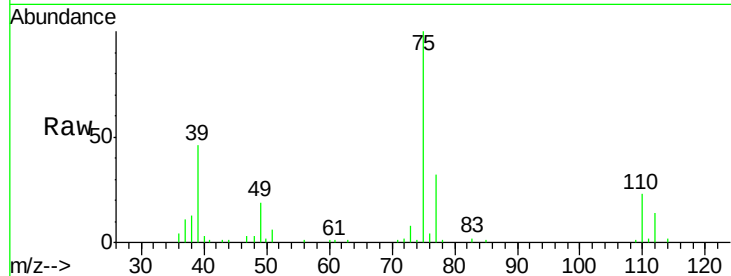
#53
t-1,3-Dichloropropene
Concen: 19.554 ug/l
RT: 7.69 min Scan# 2053
Delta R.T. 0.00 min
Lab File: VV009232.D
Acq: 22 Jan 2019 12:57

Instrument :
MSVOA_V
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.3	25.8	38.8

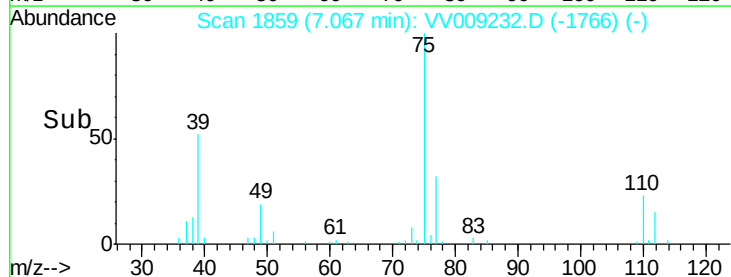
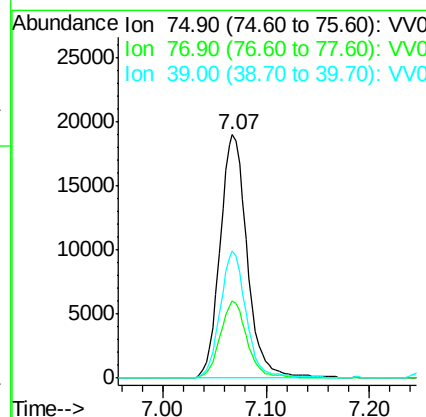
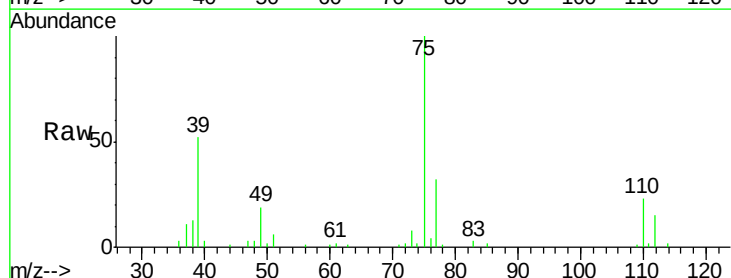
Manual Integrations
APPROVED

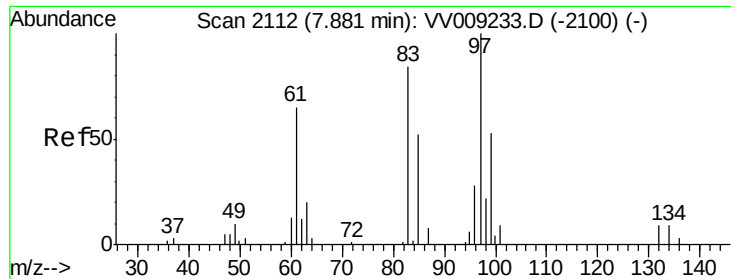
MMDadoda
1/24/2019 11:43:50 AM



#54
cis-1,3-Dichloropropene
Concen: 19.891 ug/l
RT: 7.07 min Scan# 1859
Delta R.T. 0.00 min
Lab File: VV009232.D
Acq: 22 Jan 2019 12:57

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.5	25.1	37.7
39	52.4	38.8	58.2





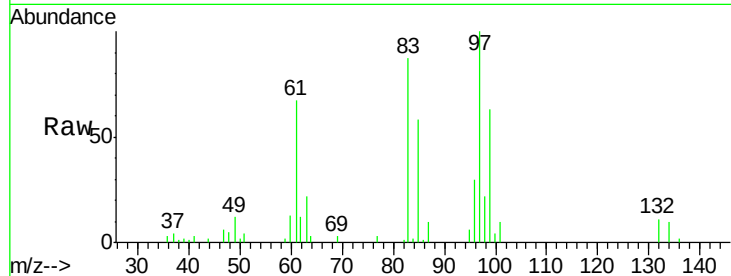
#55
1,1,2-Trichloroethane
Concen: 19.996 ug/l
RT: 7.88 min Scan# 2112
Delta R.T. 0.00 min
Lab File: VV009232.D
Acq: 22 Jan 2019 12:57

Instrument :
MSVOA_V
ClientSampleId :
VSTDIC020

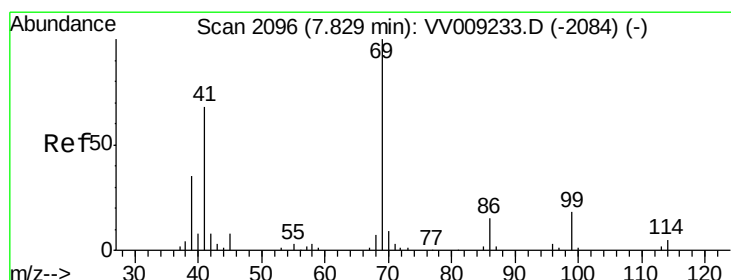
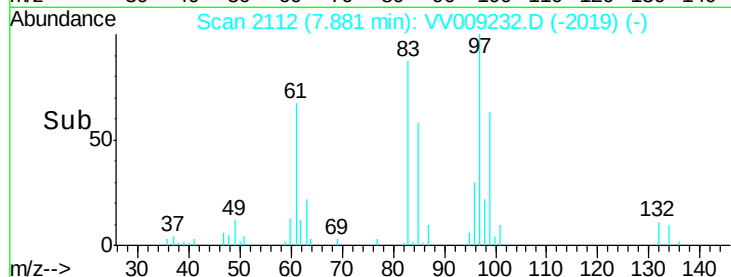
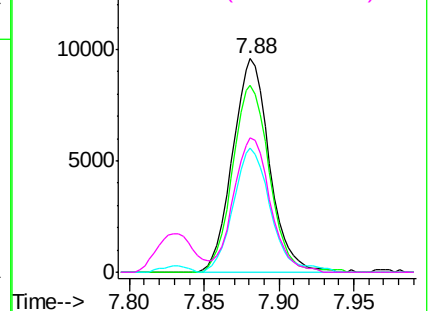
Tot Ion:	97	Resp:	16495
Ion	Ratio	Lower	Upper
97	100		
83	87.5	67.4	101.0
85	58.0	42.6	64.0
99	62.7	51.1	76.7

Manual Integrations
APPROVED

MMDadoda
1/24/2019 11:43:50 AM

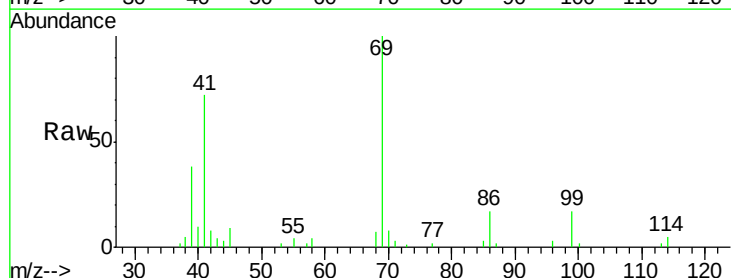


Abundance Ion 96.90 (96.60 to 97.60): VV0
Ion 82.90 (82.60 to 83.60): VV0
Ion 84.90 (84.60 to 85.60): VV0
Ion 98.90 (98.60 to 99.60): VV0

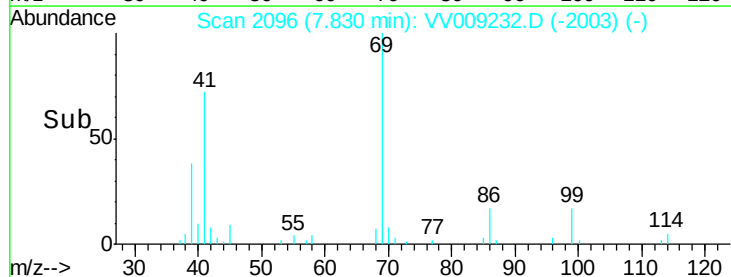
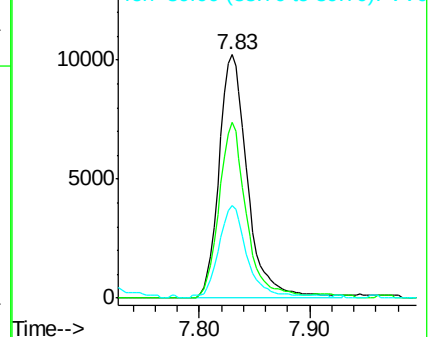


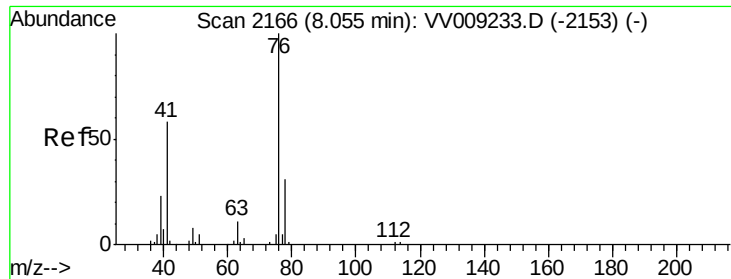
#56
Ethyl methacrylate
Concen: 18.342 ug/l
RT: 7.83 min Scan# 2096
Delta R.T. 0.00 min
Lab File: VV009232.D
Acq: 22 Jan 2019 12:57

Tgt Ion:	69	Resp:	18329
Ion	Ratio	Lower	Upper
69	100		
41	69.0	54.0	81.0
39	37.9	26.8	40.2



Abundance Ion 69.00 (68.70 to 69.70): VV0
Ion 41.00 (40.70 to 41.70): VV0
Ion 39.00 (38.70 to 39.70): VV0





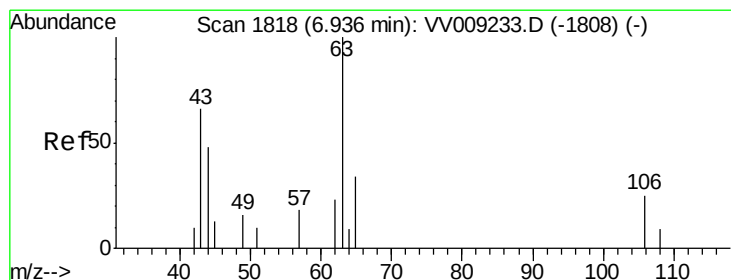
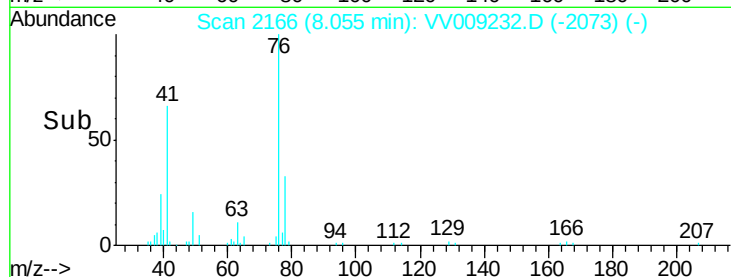
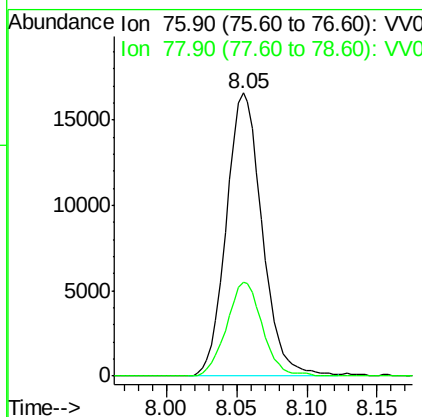
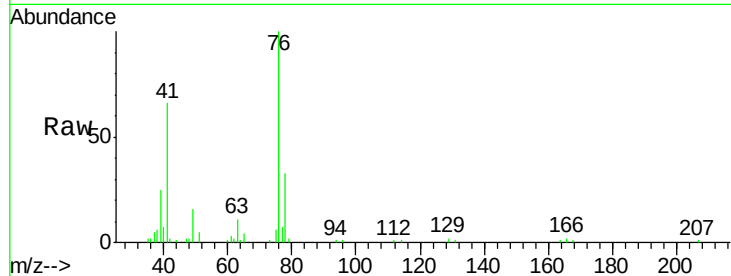
#57
 1,3-Dichloropropane
 Concen: 19.392 ug/l
 RT: 8.05 min Scan# 2166
 Delta R.T. 0.00 min
 Lab File: VV009232.D
 Acq: 22 Jan 2019 12:57

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
76	100		
78	33.1	25.5	38.3

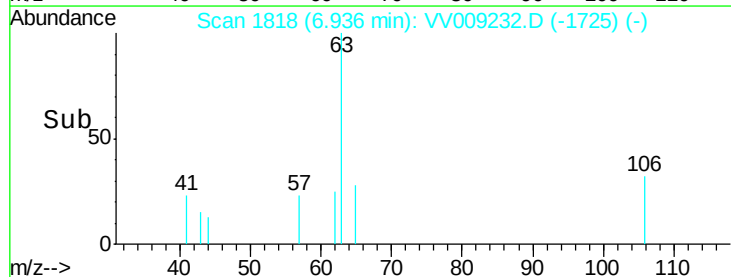
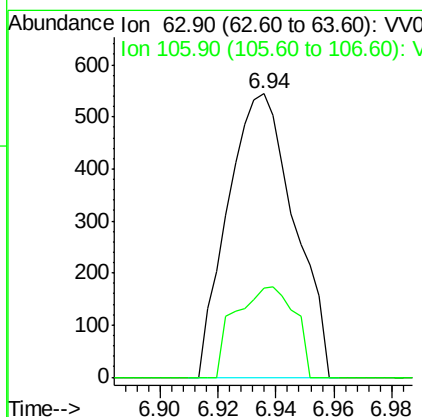
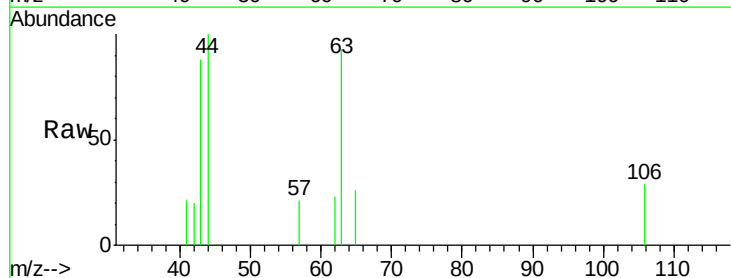
Manual Integrations
 APPROVED

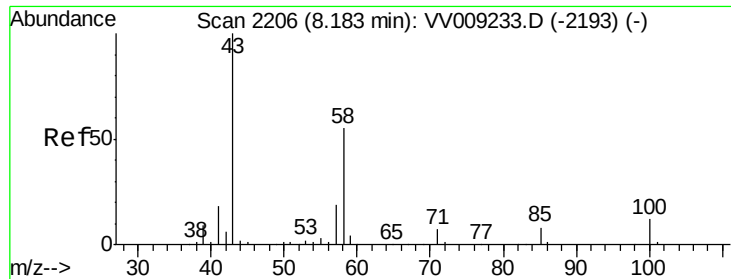
MMDadoda
 1/24/2019 11:43:50 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 44.876 ug/l
 RT: 6.94 min Scan# 1818
 Delta R.T. 0.00 min
 Lab File: VV009232.D
 Acq: 22 Jan 2019 12:57

Tgt Ion	Ratio	Lower	Upper
63	100		
106	28.4	19.0	28.6





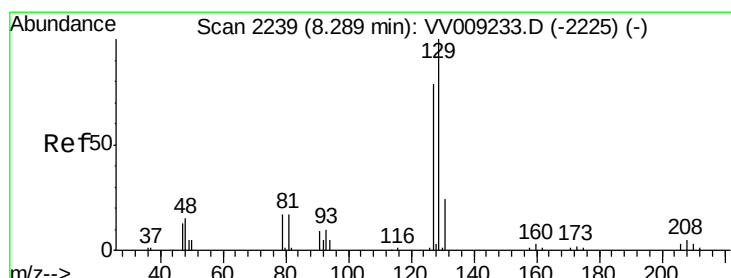
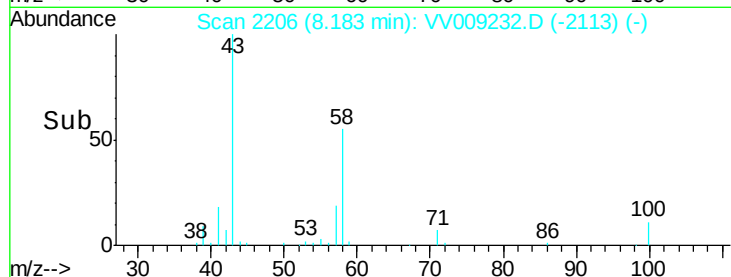
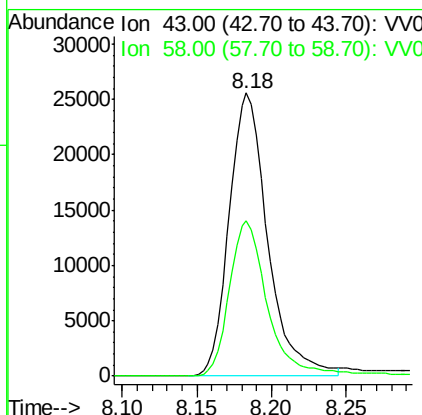
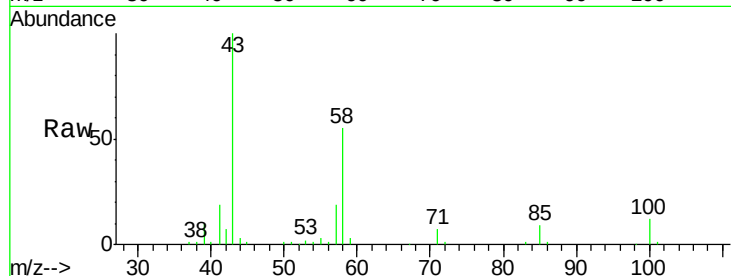
#59
2-Hexanone
Concen: 92.111 ug/l
RT: 8.18 min Scan# 2206
Delta R.T. 0.00 min
Lab File: VV009232.D
Acq: 22 Jan 2019 12:57

Instrument :
MSVOA_V
ClientSampleId :
VSTDIC020

Tot Ion: 43 Resp: 46012
Ion Ratio Lower Upper
43 100
58 54.0 27.5 82.5

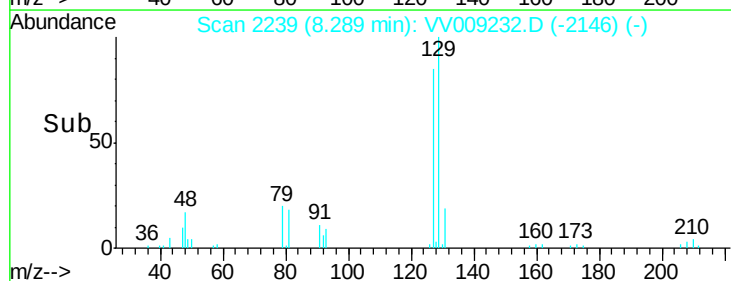
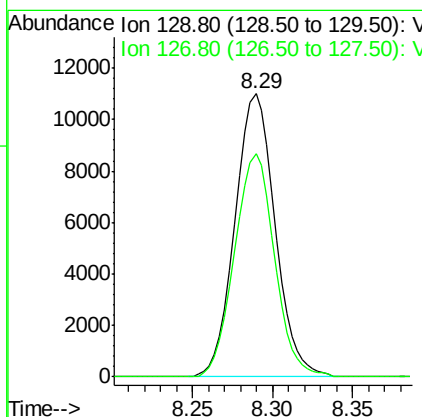
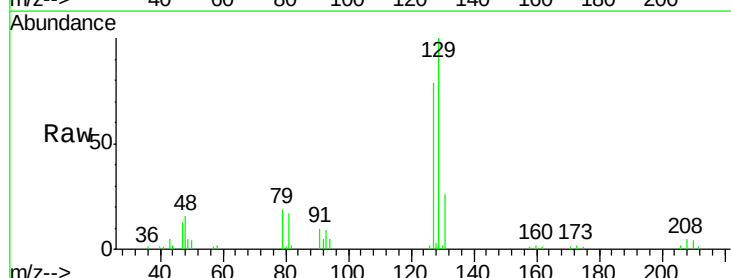
Manual Integrations
APPROVED

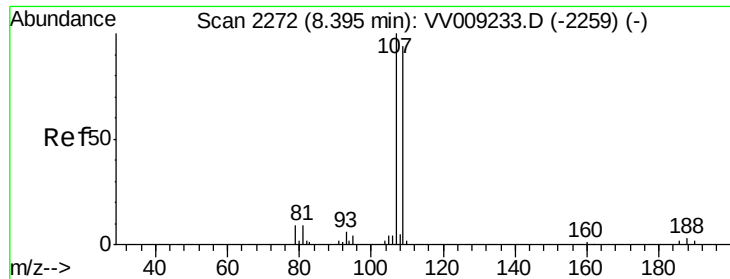
MMDadoda
1/24/2019 11:43:50 AM



#60
Dibromochloromethane
Concen: 19.138 ug/l
RT: 8.29 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VV009232.D
Acq: 22 Jan 2019 12:57

Tgt Ion: 129 Resp: 18798
Ion Ratio Lower Upper
129 100
127 78.7 38.8 116.4





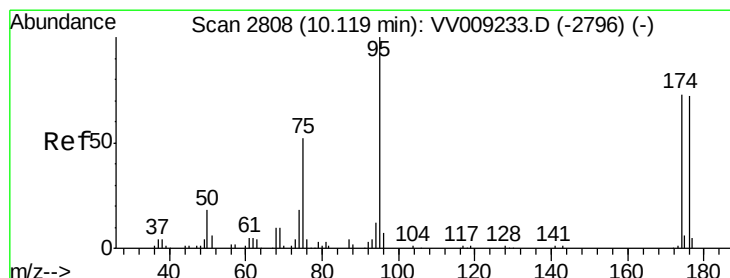
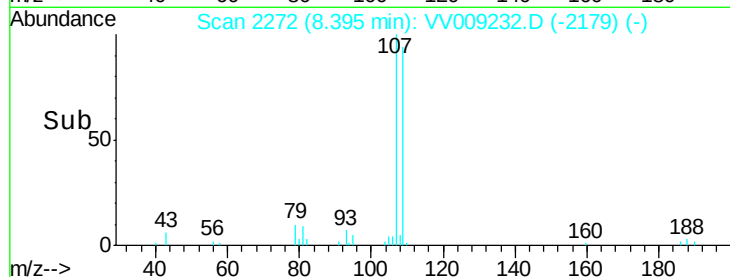
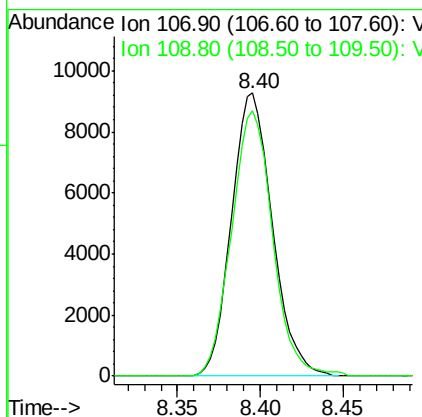
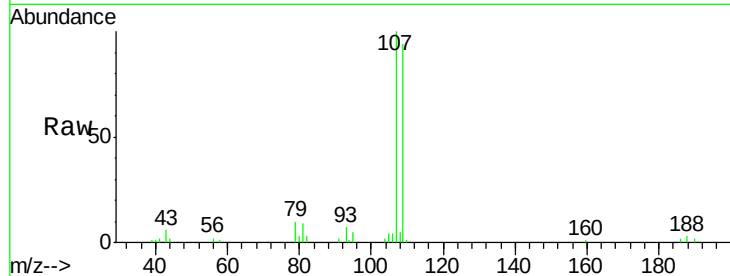
#61
 1,2-Dibromoethane
 Concen: 19.488 ug/l
 RT: 8.40 min Scan# 2272
 Delta R.T. 0.00 min
 Lab File: VV009232.D
 Acq: 22 Jan 2019 12:57

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDIC020

Tot Ion:107 Resp: 15931
 Ion Ratio Lower Upper
 107 100
 109 94.0 76.2 114.2

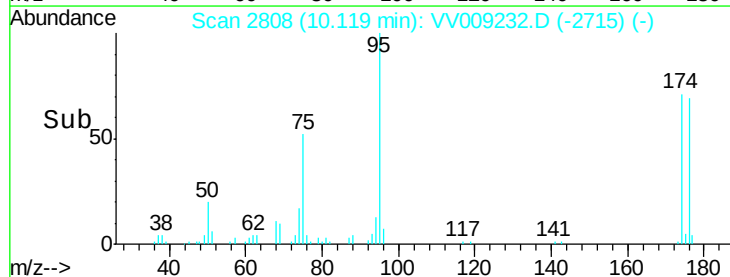
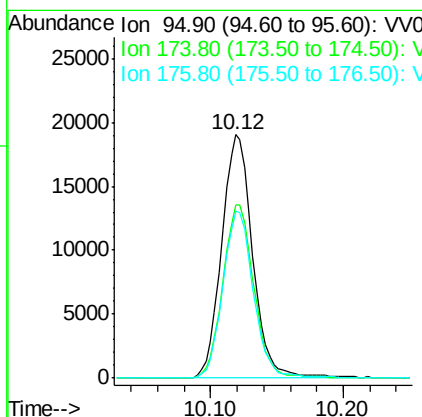
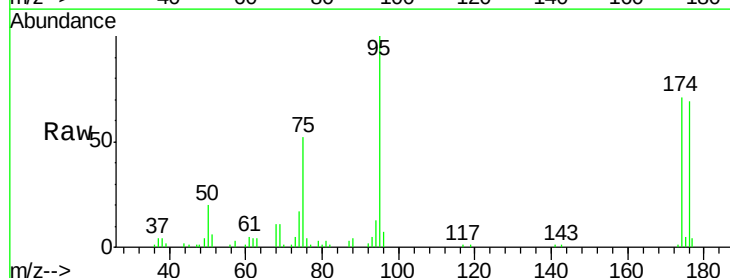
Manual Integrations
 APPROVED

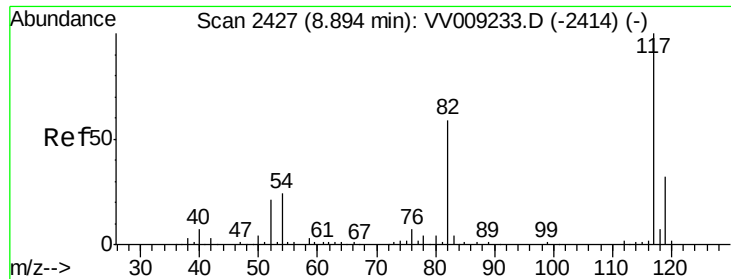
MMDadoda
 1/24/2019 11:43:50 AM



#62
 4-Bromofluorobenzene
 Concen: 21.002 ug/l
 RT: 10.12 min Scan# 2808
 Delta R.T. 0.00 min
 Lab File: VV009232.D
 Acq: 22 Jan 2019 12:57

Tgt Ion: 95 Resp: 30851
 Ion Ratio Lower Upper
 95 100
 174 71.4 0.0 148.2
 176 67.5 0.0 143.0





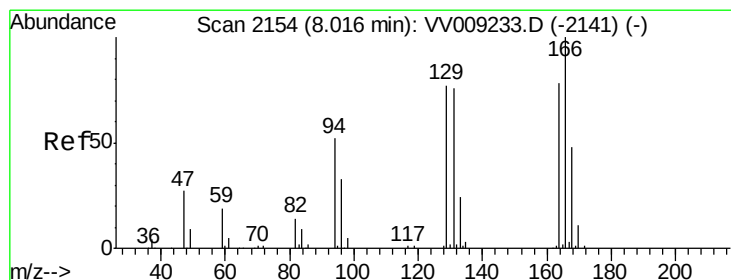
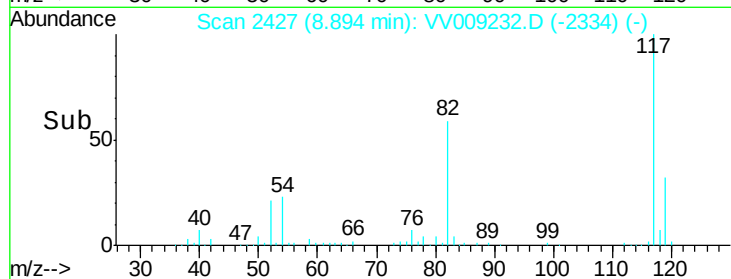
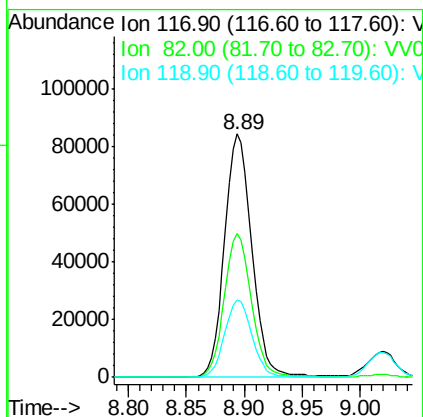
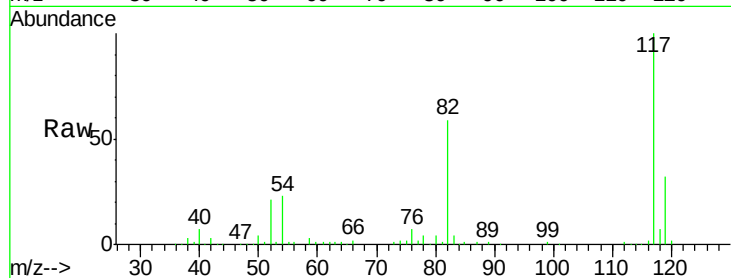
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.89 min Scan# 2427
Delta R.T. 0.00 min
Lab File: VV009232.D
Acq: 22 Jan 2019 12:57

Instrument :
MSVOA_V
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
117	100		
82	58.9	47.0	70.6
119	31.7	25.4	38.2

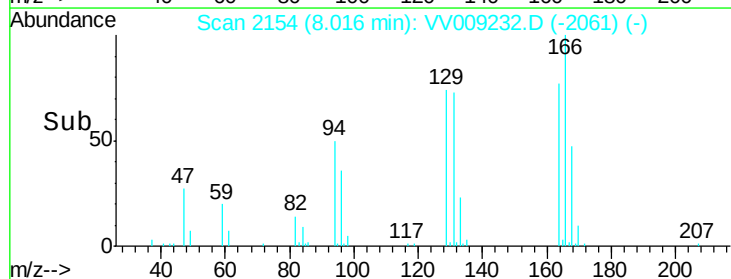
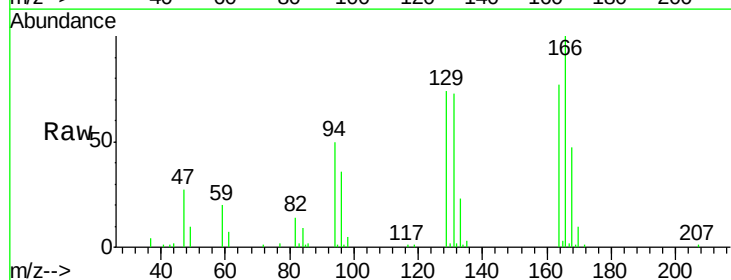
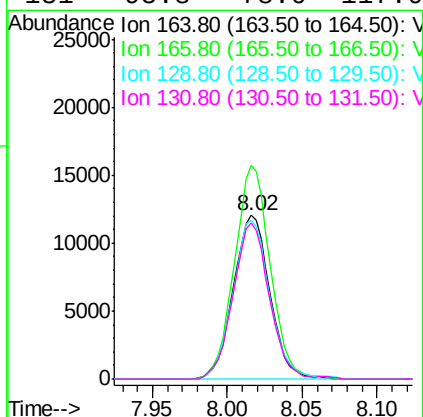
Manual Integrations
APPROVED

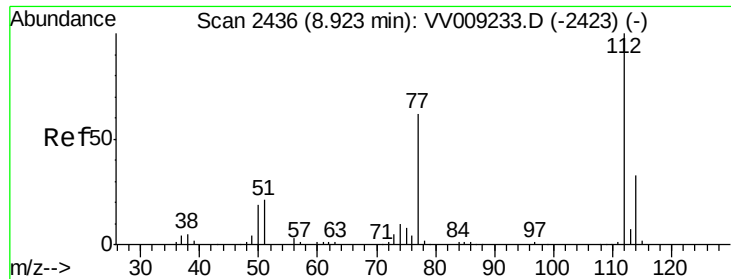
MMDadoda
1/24/2019 11:43:50 AM



#64
Tetrachloroethene
Concen: 21.836 ug/l
RT: 8.02 min Scan# 2154
Delta R.T. 0.00 min
Lab File: VV009232.D
Acq: 22 Jan 2019 12:57

Tgt Ion	Ratio	Lower	Upper
164	100		
166	130.7	102.1	153.1
129	97.3	78.1	117.1
131	95.8	78.0	117.0





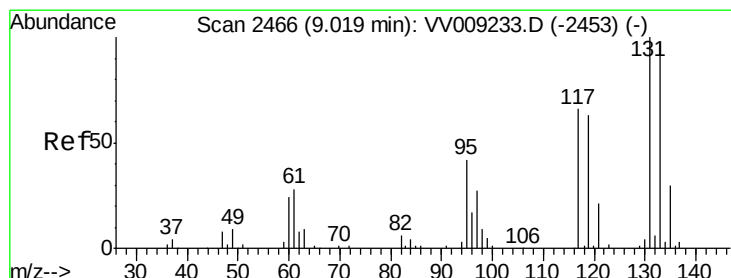
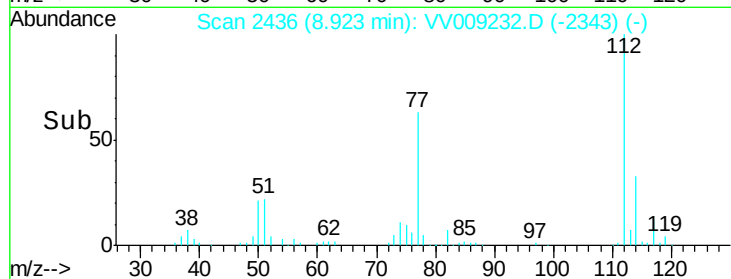
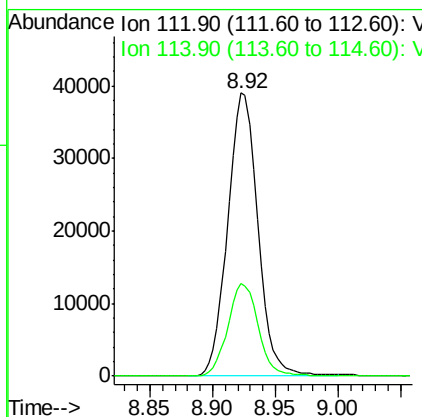
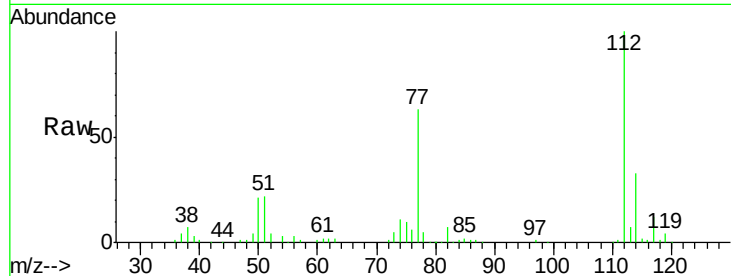
#65
Chlorobenzene
Concen: 20.809 ug/l
RT: 8.92 min Scan# 2436
Delta R.T. 0.00 min
Lab File: VV009232.D
Acq: 22 Jan 2019 12:57

Instrument :
MSVOA_V
ClientSampleId :
VSTDIC020

Tot Ion:112 Resp: 65404
Ion Ratio Lower Upper
112 100
114 32.6 26.0 39.0

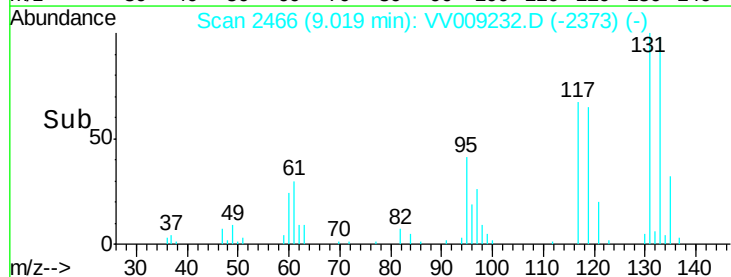
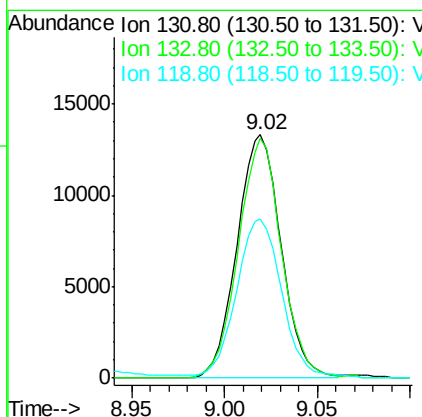
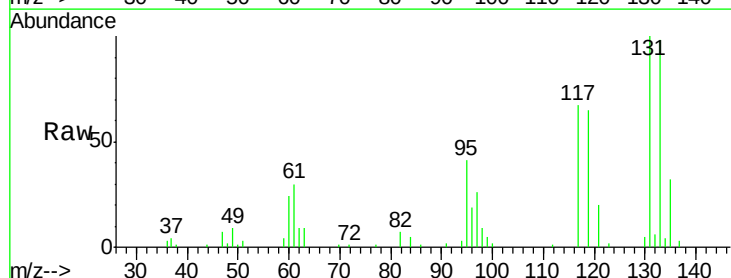
Manual Integrations
APPROVED

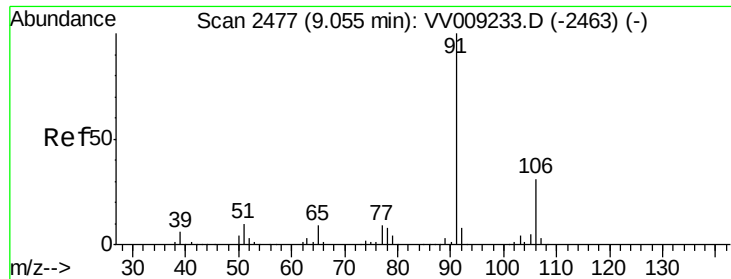
MMDadoda
1/24/2019 11:43:50 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 20.391 ug/l
RT: 9.02 min Scan# 2466
Delta R.T. 0.00 min
Lab File: VV009232.D
Acq: 22 Jan 2019 12:57

Tgt Ion:131 Resp: 22023
Ion Ratio Lower Upper
131 100
133 96.8 48.3 144.9
119 67.3 31.2 93.6





#67

Ethyl Benzene

Concen: 20.991 ug/l

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV009232.D

Acq: 22 Jan 2019 12:57

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC020

Tot Ion: 91 Resp: 117200

Ion Ratio Lower Upper

91 100

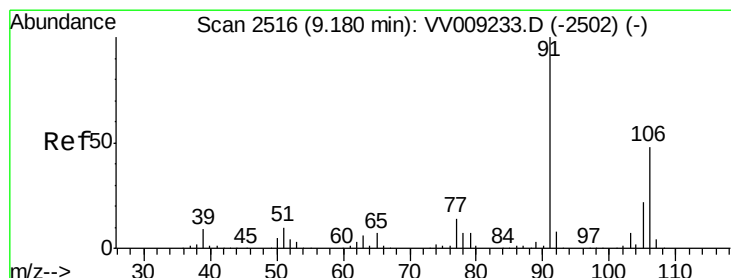
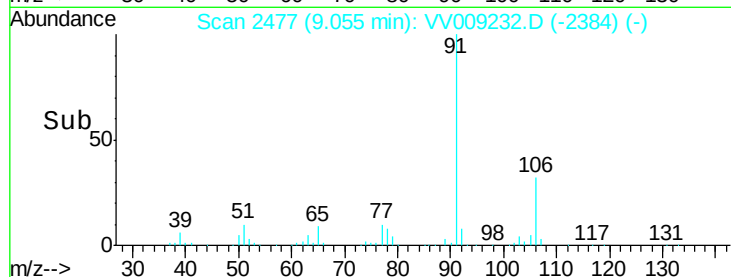
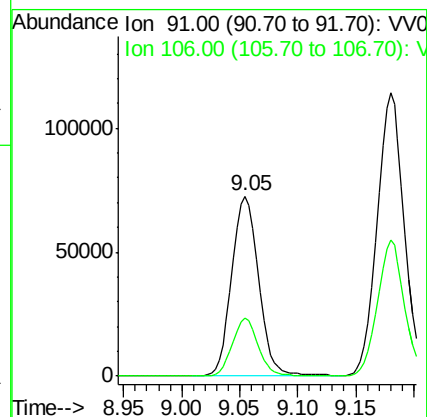
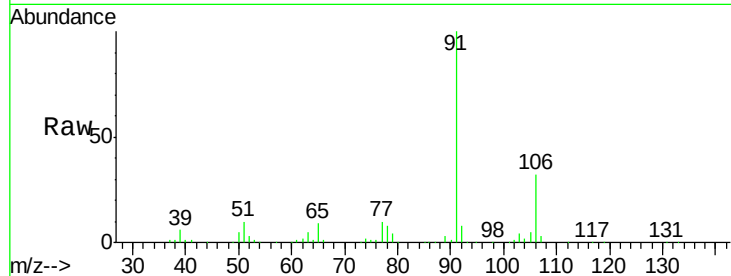
106 32.1 24.6 37.0

Manual Integrations

APPROVED

MMDadoda

1/24/2019 11:43:50 AM



#68

m/p-Xylenes

Concen: 43.173 ug/l

RT: 9.18 min Scan# 2516

Delta R.T. 0.00 min

Lab File: VV009232.D

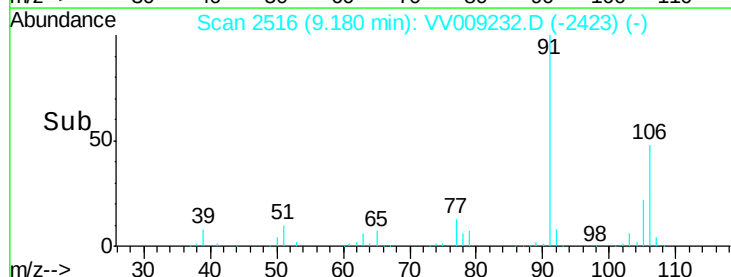
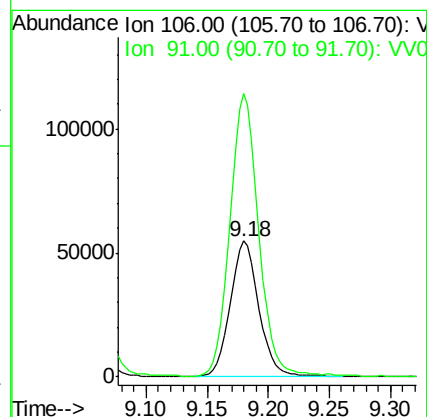
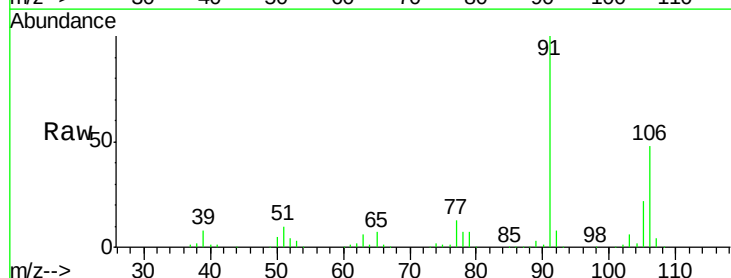
Acq: 22 Jan 2019 12:57

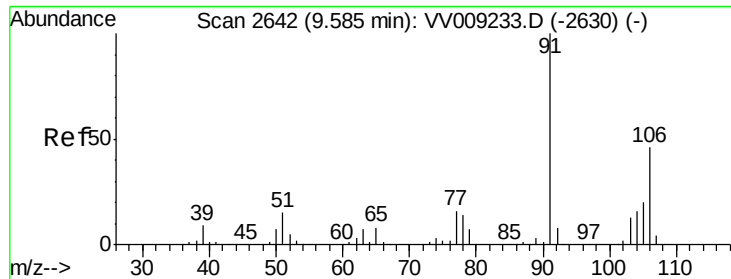
Tgt Ion: 106 Resp: 90445

Ion Ratio Lower Upper

106 100

91 206.6 167.1 250.7





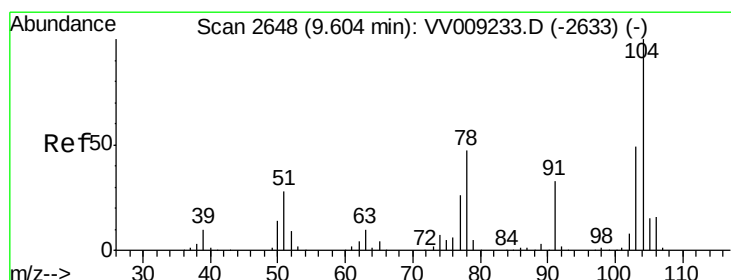
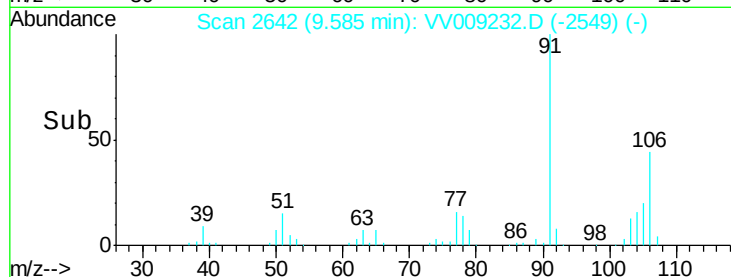
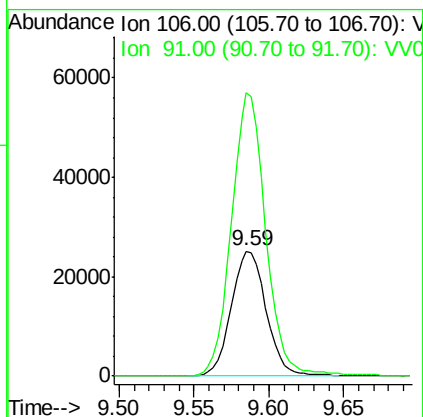
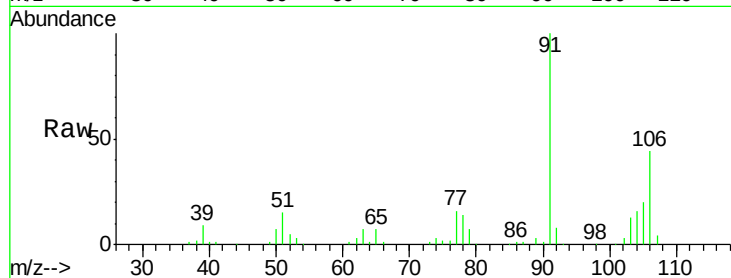
#69
o-Xylene
Concen: 20.944 ug/l
RT: 9.59 min Scan# 2642
Delta R.T. 0.00 min
Lab File: VV009232.D
Acq: 22 Jan 2019 12:57

Instrument :
MSVOA_V
ClientSampleId :
VSTDIC020

Tot Ion:106 Resp: 40877
Ion Ratio Lower Upper
106 100
91 223.1 109.3 327.8

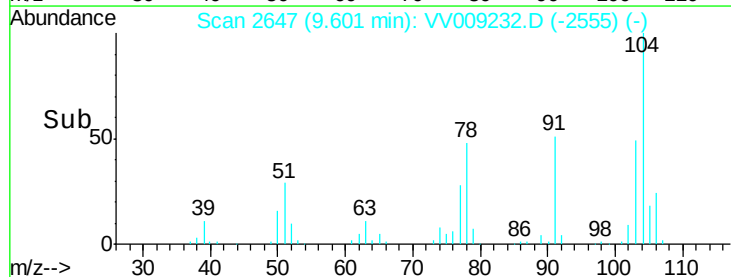
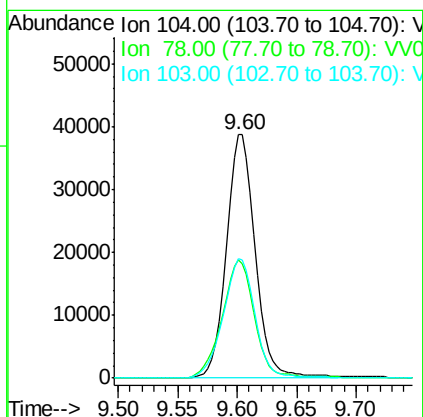
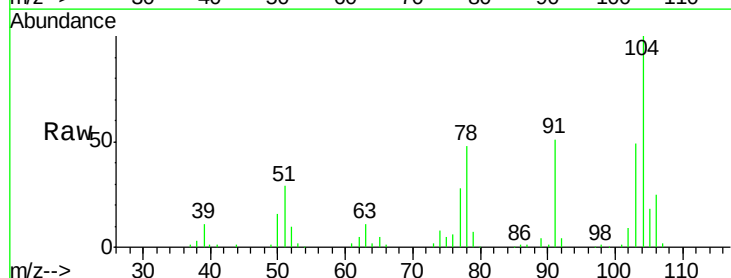
Manual Integrations
APPROVED

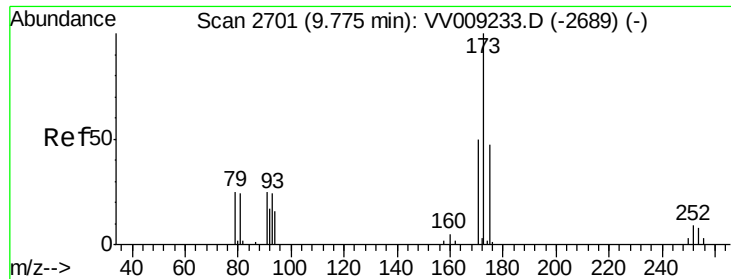
MMDadoda
1/24/2019 11:43:50 AM



#70
Styrene
Concen: 20.462 ug/l
RT: 9.60 min Scan# 2647
Delta R.T. -0.00 min
Lab File: VV009232.D
Acq: 22 Jan 2019 12:57

Tgt Ion:104 Resp: 65113
Ion Ratio Lower Upper
104 100
78 54.8 43.1 64.7
103 54.4 43.8 65.8





#71

Bromoform

Concen: 19.561 ug/l

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VV009232.D

Acq: 22 Jan 2019 12:57

Instrument :

MSVOA_V

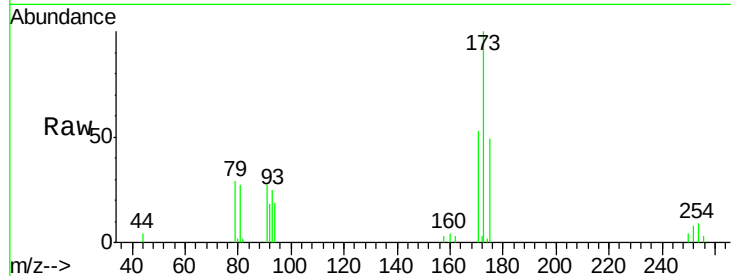
ClientSampleId :

VSTDIC020

Tot Ion	Ratio	Lower	Upper
173	100		
175	46.5	23.4	70.0
254	0.0	0.0	0.0

Manual Integrations
APPROVED

MMDadoda
1/24/2019 11:43:50 AM

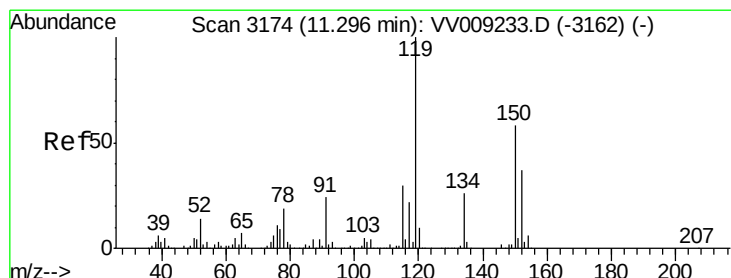
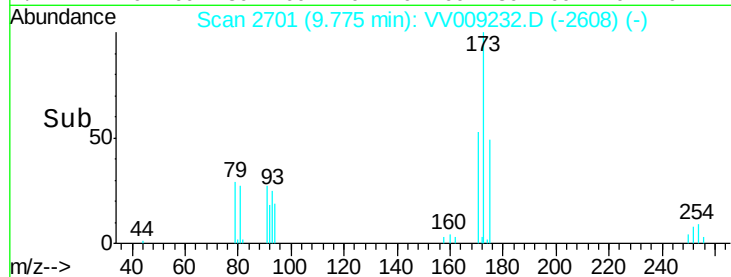
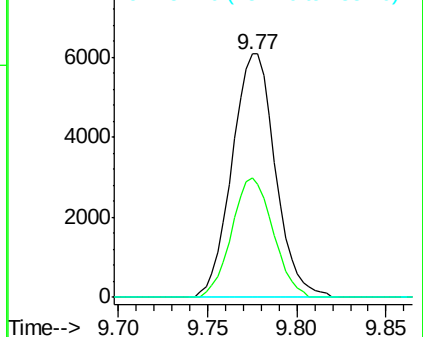


Abundance

Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.30 min Scan# 3174

Delta R.T. 0.00 min

Lab File: VV009232.D

Acq: 22 Jan 2019 12:57

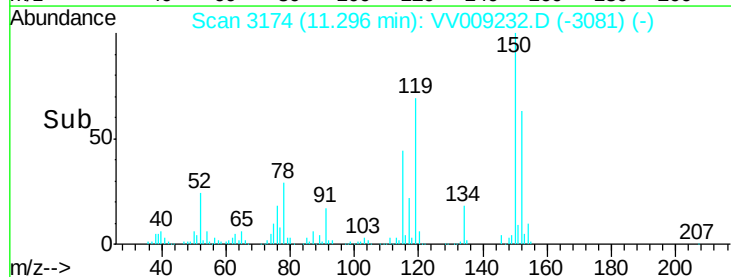
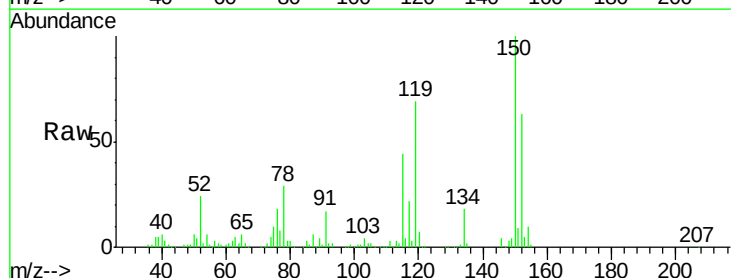
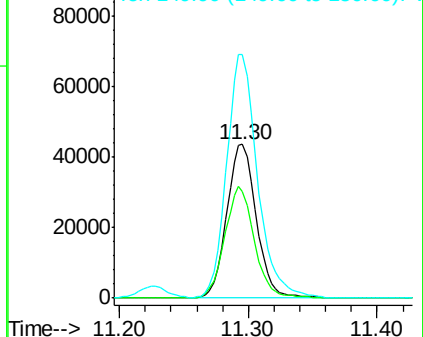
Tgt Ion	Ratio	Lower	Upper
152	100		
115	72.5	45.0	134.8
150	165.9	0.0	346.4

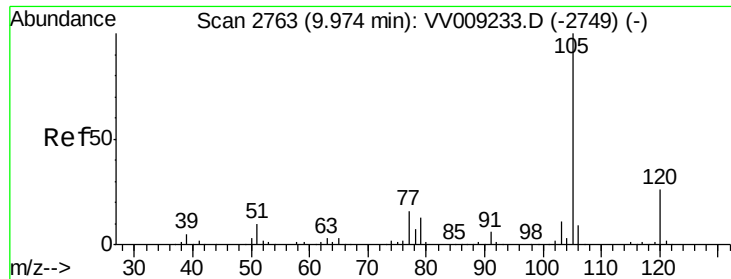
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 21.501 ug/l

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV009232.D

Acq: 22 Jan 2019 12:57

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC020

Tot Ion:105 Resp: 117922

Ion Ratio Lower Upper

105 100

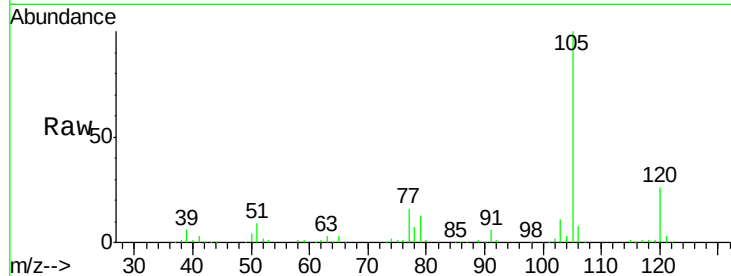
120 26.2 12.9 38.7

Manual Integrations

APPROVED

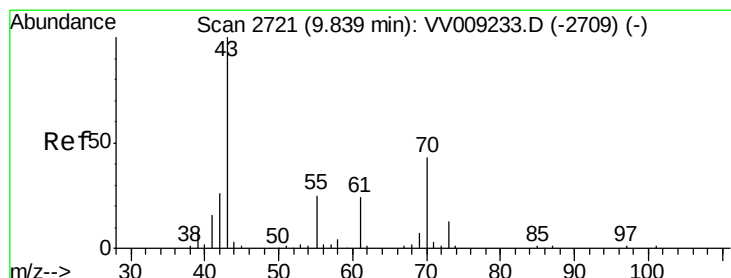
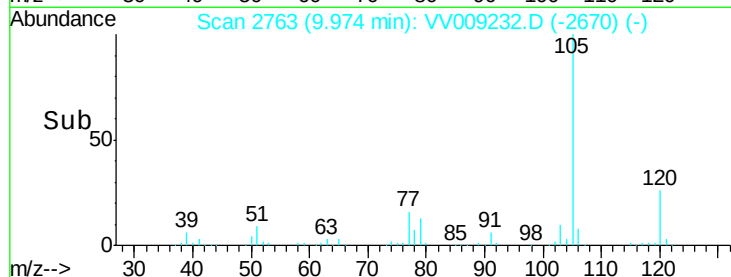
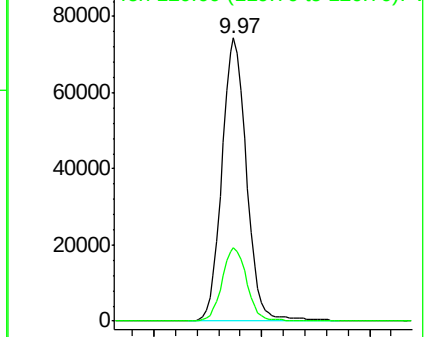
MMDadoda

1/24/2019 11:43:50 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 17.052 ug/l

RT: 9.84 min Scan# 2721

Delta R.T. 0.00 min

Lab File: VV009232.D

Acq: 22 Jan 2019 12:57

Tgt Ion: 43 Resp: 19756

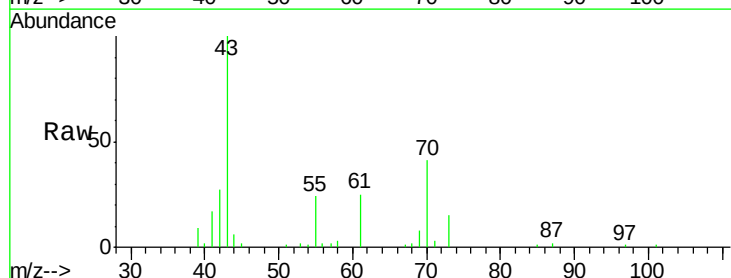
Ion Ratio Lower Upper

43 100

70 41.7 33.0 49.6

55 24.7 18.7 28.1

61 24.3 18.0 27.0

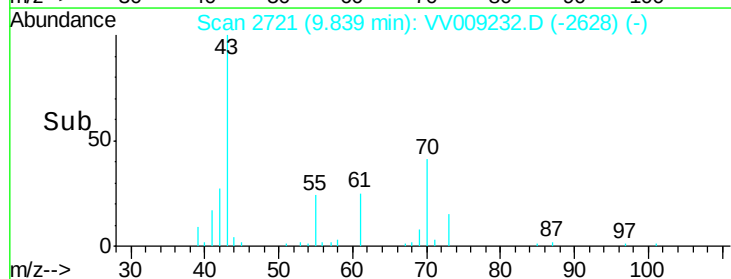
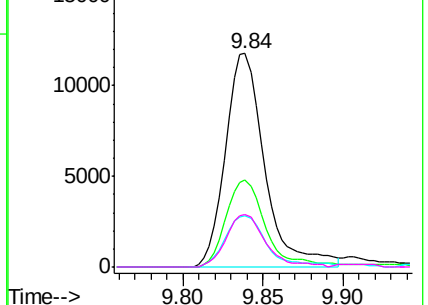


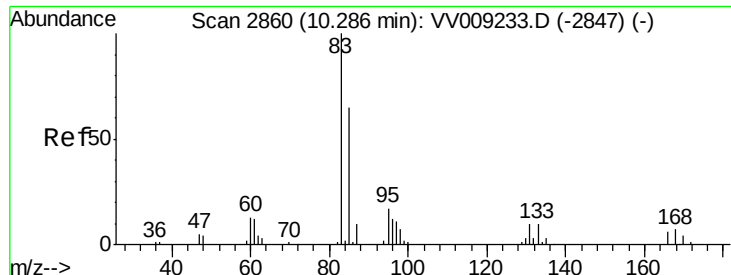
Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 70.00 (69.70 to 70.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 61.00 (60.70 to 61.70): VV0





#75

1,1,2,2-Tetrachloroethane

Concen: 19.784 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV009232.D

Acq: 22 Jan 2019 12:57

Instrument :

MSVOA_V

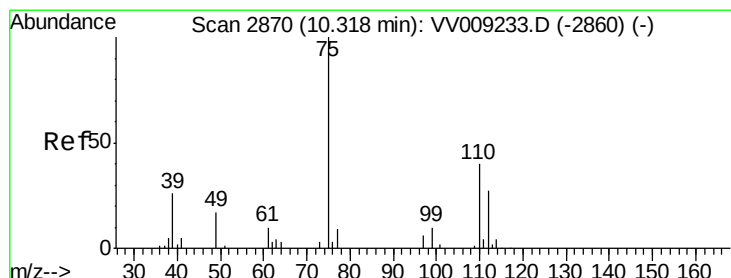
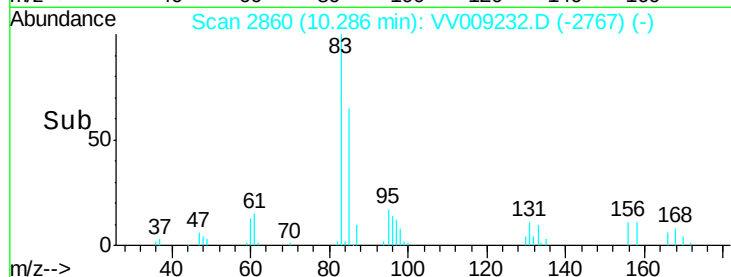
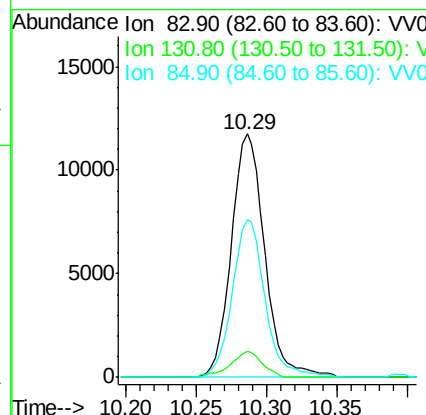
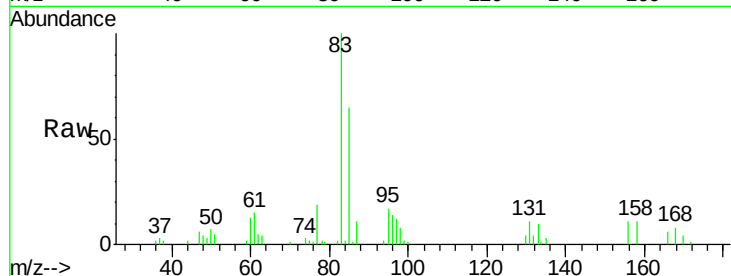
ClientSampleId :

VSTDIC020

Tot Ion	83	Resp	19432
Ion	Ratio	Lower	Upper
83	100		
131	10.2	5.1	15.3
85	63.5	32.6	98.0

Manual Integrations
APPROVED

MMDadoda
1/24/2019 11:43:50 AM



#76

1,2,3-Trichloropropane

Concen: 19.578 ug/l m

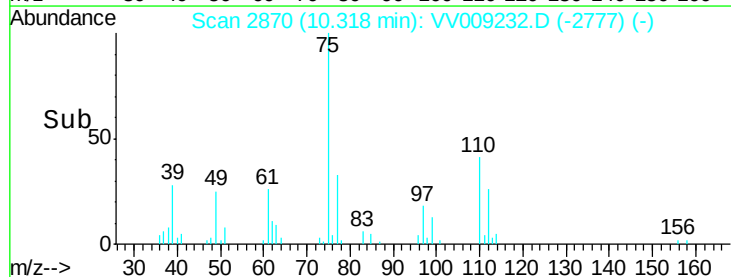
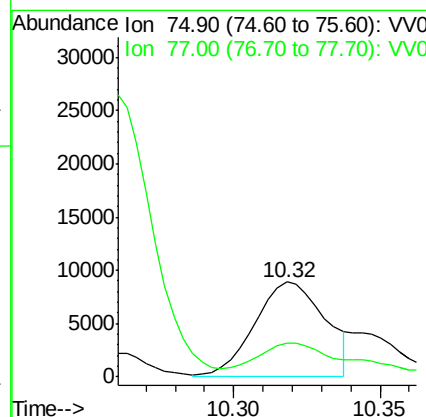
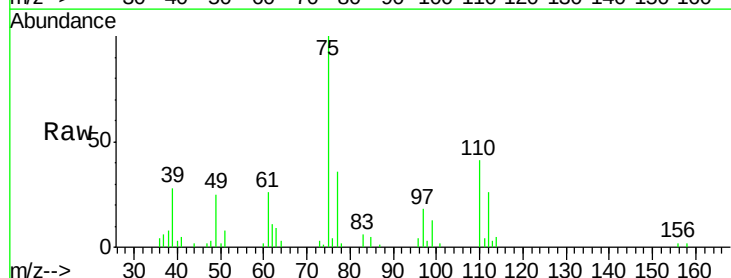
RT: 10.32 min Scan# 2870

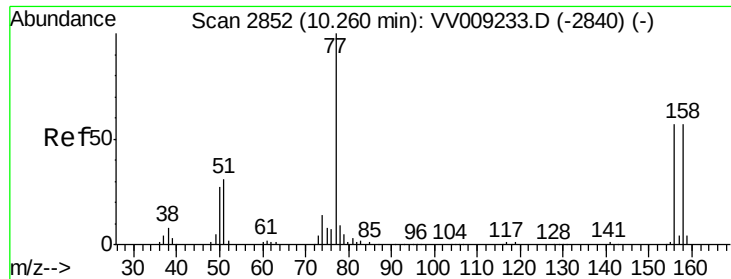
Delta R.T. 0.00 min

Lab File: VV009232.D

Acq: 22 Jan 2019 12:57

Tgt Ion	75	Resp	14962
Ion	Ratio	Lower	Upper
75	100		
77	49.4	24.6	73.8





#77

Bromobenzene

Concen: 20.198 ug/l

RT: 10.26 min Scan# 2852

Delta R.T. 0.00 min

Lab File: VV009232.D

Acq: 22 Jan 2019 12:57

Instrument :

MSVOA_V

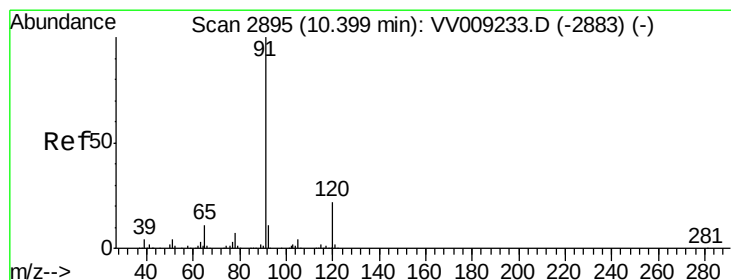
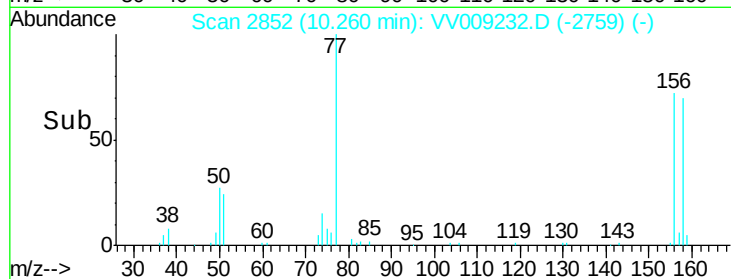
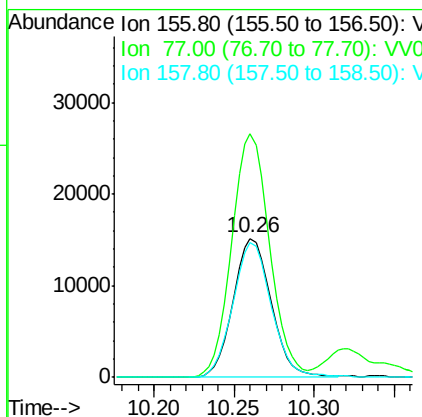
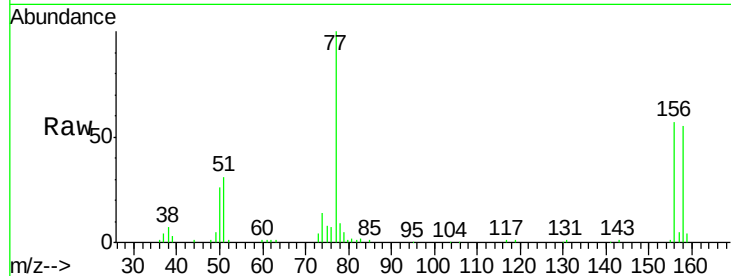
ClientSampleId :

VSTDIC020

Tot Ion	Ratio	Lower	Upper
156	100		
77	174.0	86.0	258.0
158	98.1	49.8	149.3

Manual Integrations
APPROVED

MMDadoda
1/24/2019 11:43:50 AM



#78

n-propylbenzene

Concen: 21.471 ug/l

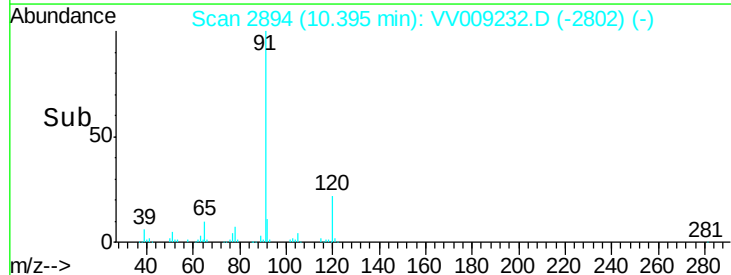
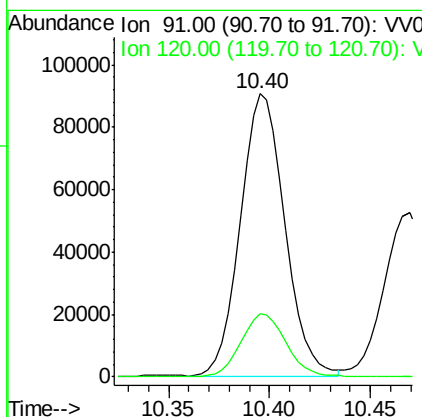
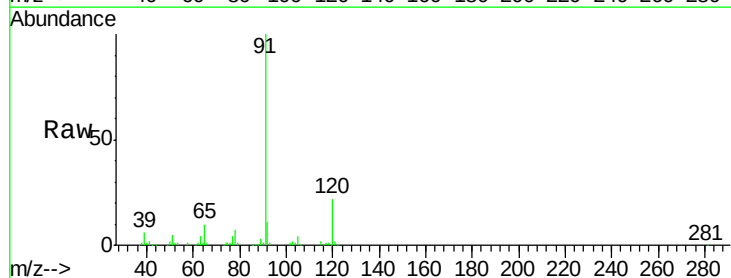
RT: 10.40 min Scan# 2894

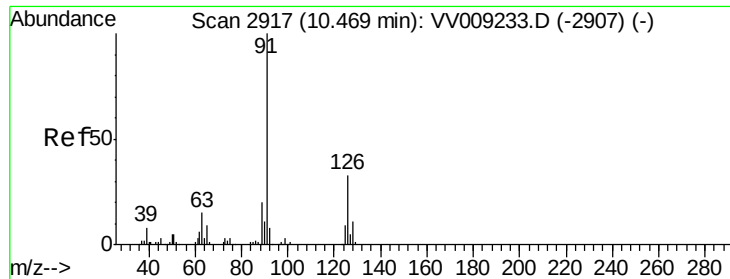
Delta R.T. -0.00 min

Lab File: VV009232.D

Acq: 22 Jan 2019 12:57

Tgt Ion	Ratio	Lower	Upper
91	100		
120	22.8	11.5	34.4





#79

2-Chlorotoluene

Concen: 21.444 ug/l

RT: 10.47 min Scan# 2917

Delta R.T. 0.00 min

Lab File: VV009232.D

Acq: 22 Jan 2019 12:57

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC020

Tot Ion: 91 Resp: 85978

Ion Ratio Lower Upper

91 100

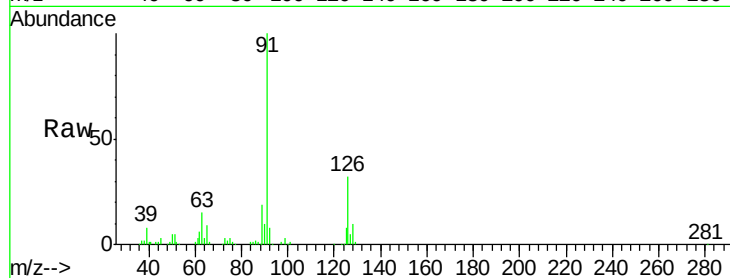
126 31.8 16.2 48.6

Manual Integrations

APPROVED

MMDadoda

1/24/2019 11:43:50 AM



Abundance Ion 91.00 (90.70 to 91.70): VV009233.D (-2907) (-)

Ion 125.90 (125.60 to 126.60): VV009233.D (-2907) (-)

100000

80000

60000

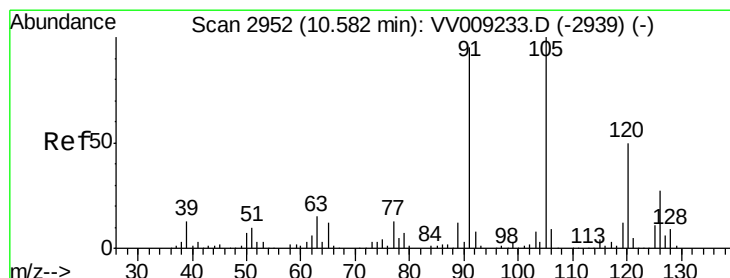
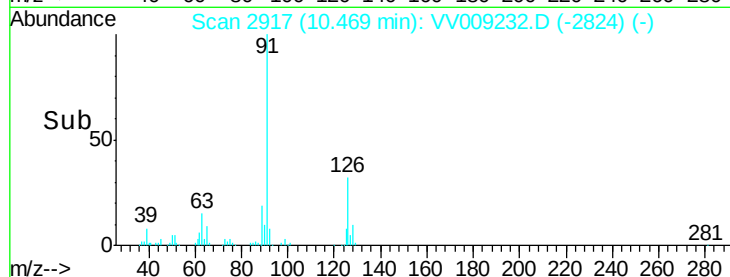
40000

20000

0

10.40 10.45 10.50 10.55

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 21.495 ug/l

RT: 10.58 min Scan# 2952

Delta R.T. 0.00 min

Lab File: VV009232.D

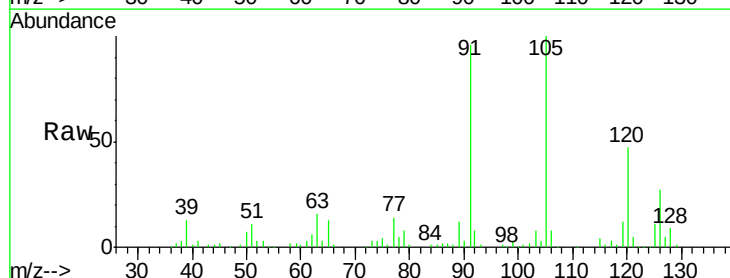
Acq: 22 Jan 2019 12:57

Tgt Ion: 105 Resp: 99907

Ion Ratio Lower Upper

105 100

120 47.2 24.3 73.0



Abundance Ion 105.00 (104.70 to 105.70): VV009233.D (-2939) (-)

Ion 120.00 (119.70 to 120.70): VV009233.D (-2939) (-)

60000

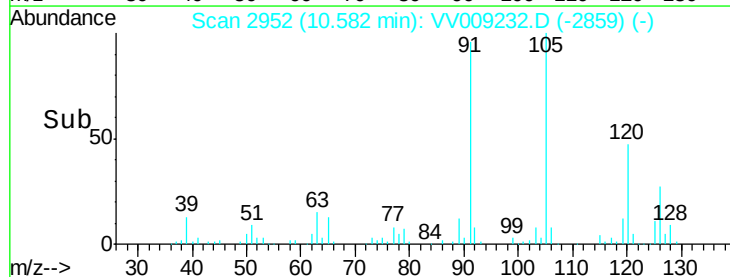
40000

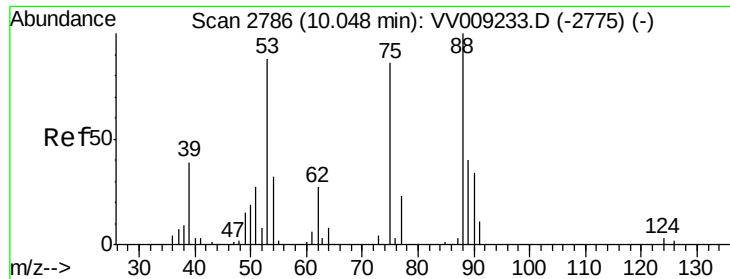
20000

0

10.50 10.60 10.70

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 18.747 ug/l

RT: 10.05 min Scan# 2786

Delta R.T. 0.00 min

Lab File: VV009232.D

Acq: 22 Jan 2019 12:57

Instrument :

MSVOA_V

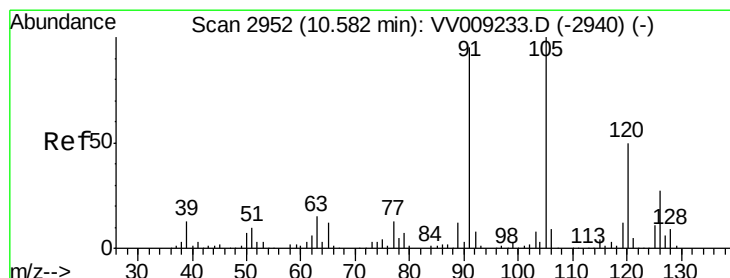
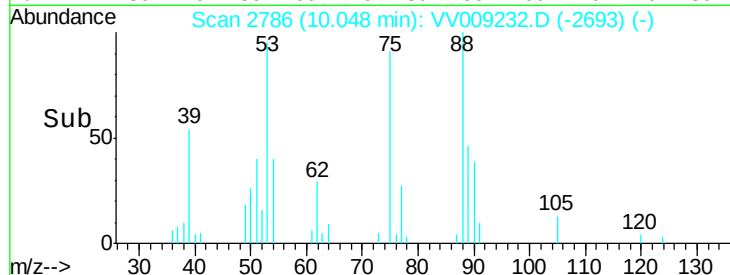
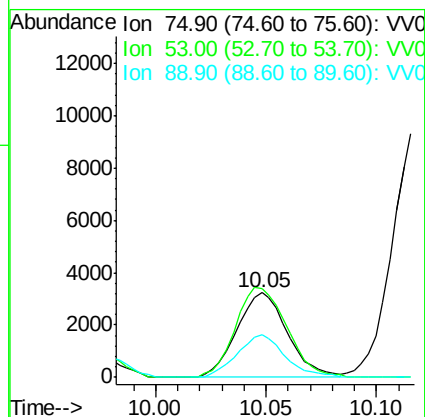
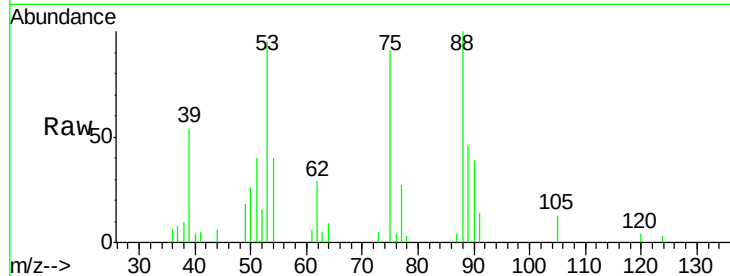
ClientSampleId :

VSTDIC020

Tot Ion:	75	Resp:	5167
Ion	Ratio	Lower	Upper
75	100		
53	107.8	82.1	123.1
89	47.3	36.2	54.4

Manual Integrations
APPROVED

MMDadoda
1/24/2019 11:43:50 AM



#82

4-Chlorotoluene

Concen: 20.840 ug/l

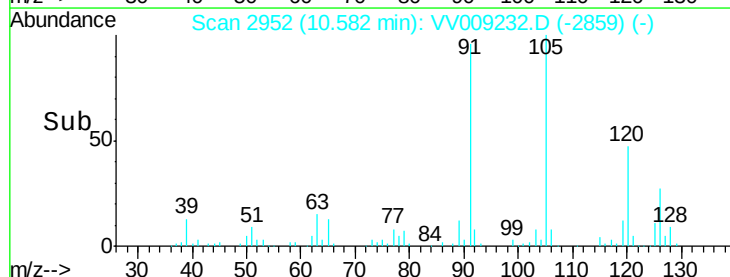
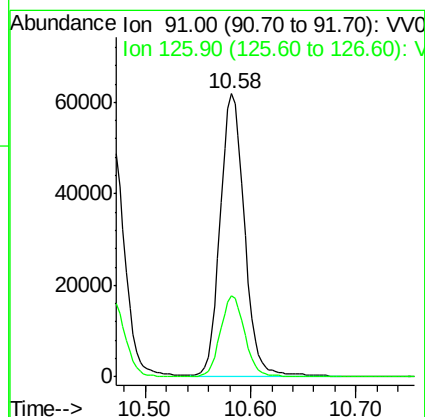
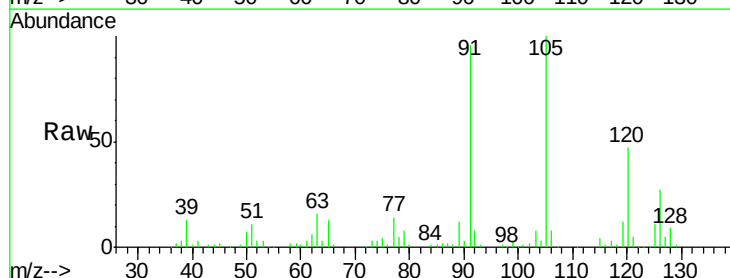
RT: 10.58 min Scan# 2952

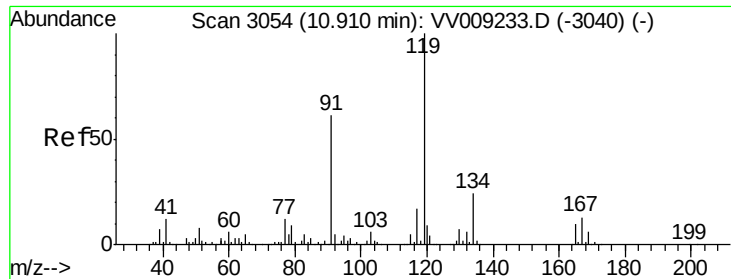
Delta R.T. 0.00 min

Lab File: VV009232.D

Acq: 22 Jan 2019 12:57

Tgt Ion:	91	Resp:	99520
Ion	Ratio	Lower	Upper
91	100		
126	27.8	14.3	42.9





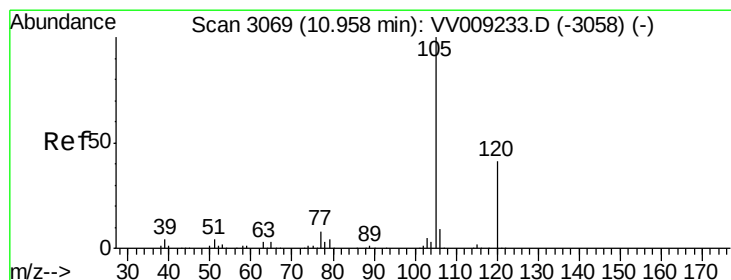
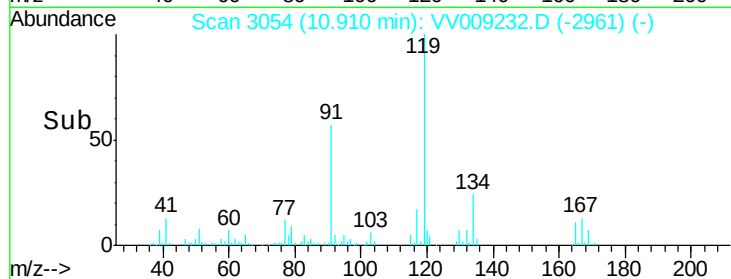
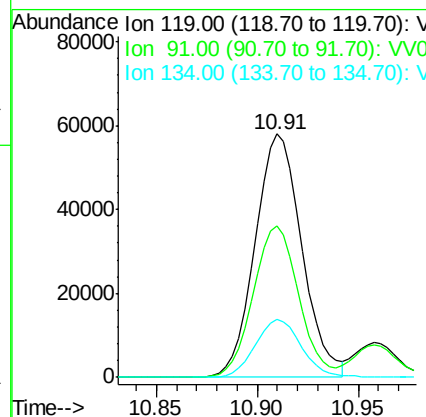
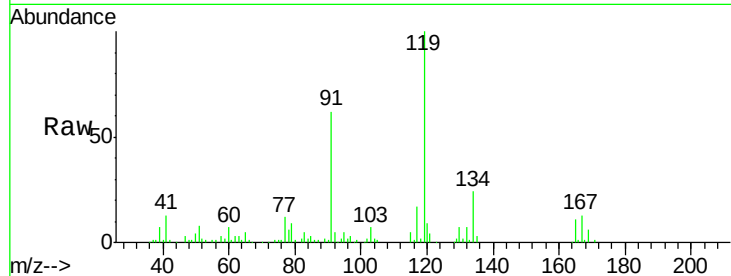
#83
 tert-Butylbenzene
 Concen: 21.278 ug/l
 RT: 10.91 min Scan# 3054
 Delta R.T. 0.00 min
 Lab File: VV009232.D
 Acq: 22 Jan 2019 12:57

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
119	100	94033		
91	60.7	30.0	90.1	
134	23.7	11.9	35.7	

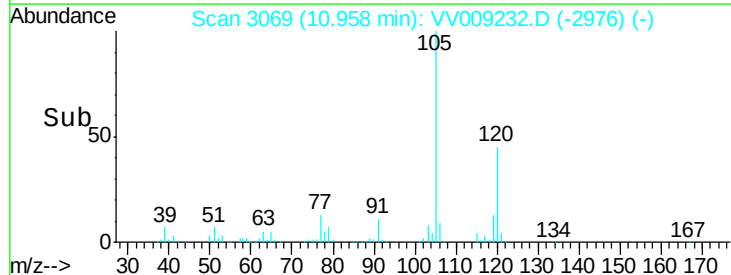
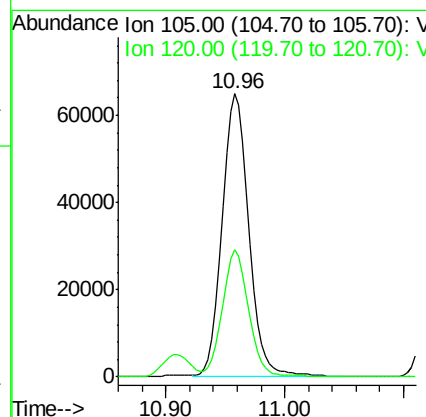
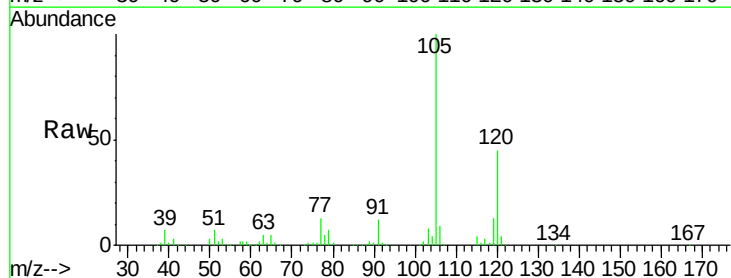
Manual Integrations
 APPROVED

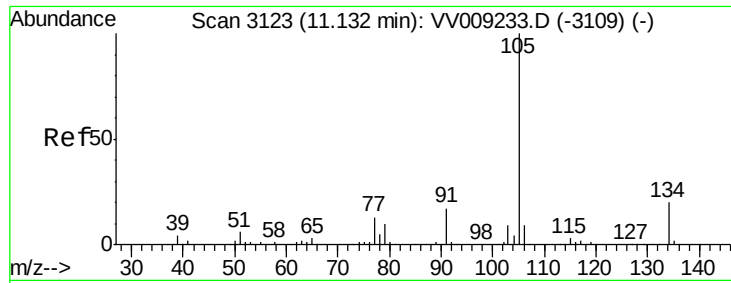
MMDadoda
 1/24/2019 11:43:50 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 21.172 ug/l
 RT: 10.96 min Scan# 3069
 Delta R.T. 0.00 min
 Lab File: VV009232.D
 Acq: 22 Jan 2019 12:57

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	101415		
120	44.1	22.6	67.7	





#85

sec-Butylbenzene

Concen: 21.556 ug/l

RT: 11.13 min Scan# 3123

Delta R.T. 0.00 min

Lab File: VV009232.D

Acq: 22 Jan 2019 12:57

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC020

Tot Ion:105 Resp: 122448

Ion Ratio Lower Upper

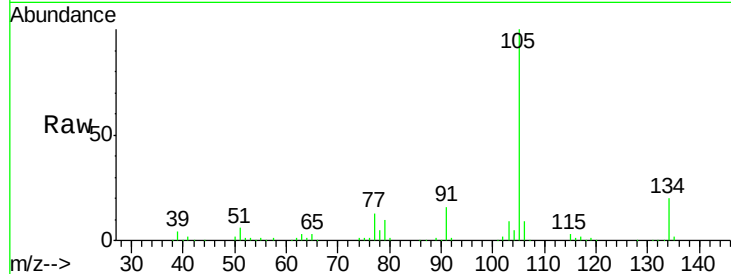
105 100

134 19.8 10.1 30.3

Manual Integrations
APPROVED

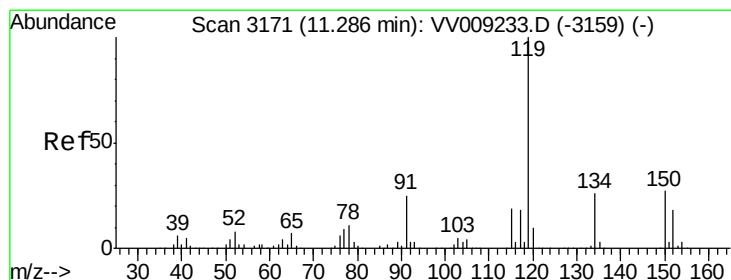
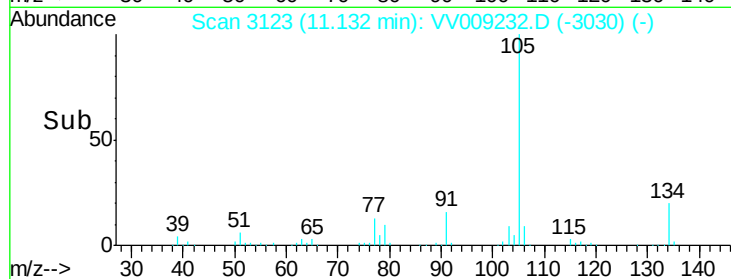
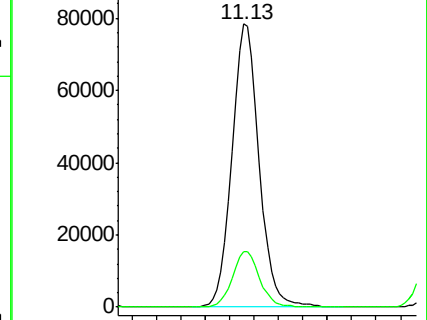
MMDadoda

1/24/2019 11:43:50 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 21.214 ug/l

RT: 11.29 min Scan# 3171

Delta R.T. 0.00 min

Lab File: VV009232.D

Acq: 22 Jan 2019 12:57

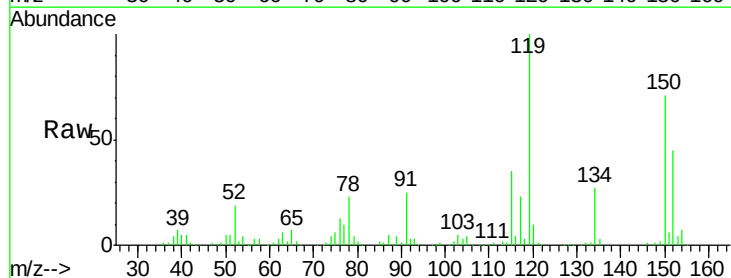
Tgt Ion:119 Resp: 106840

Ion Ratio Lower Upper

119 100

134 26.6 13.0 38.9

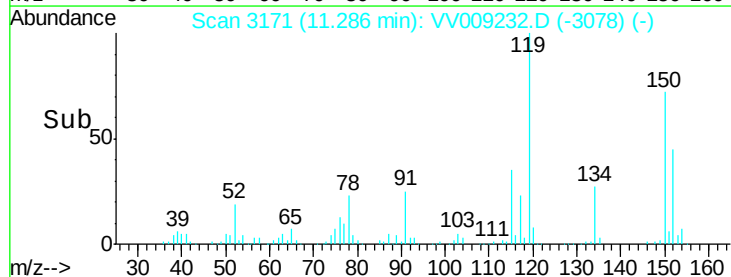
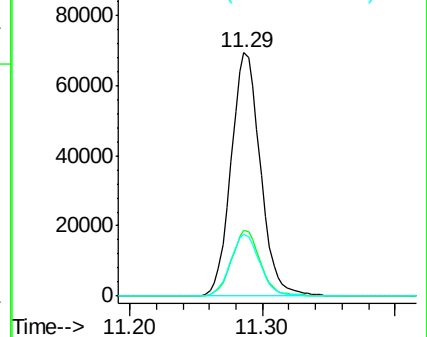
91 25.4 12.4 37.2

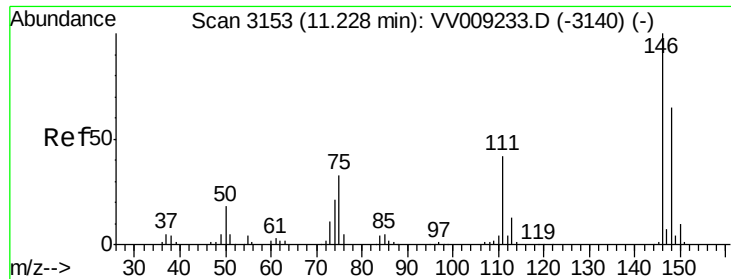


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VV0





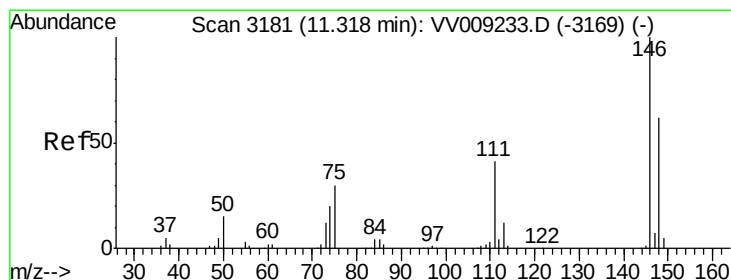
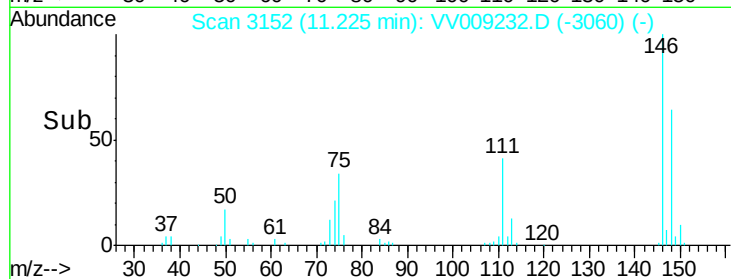
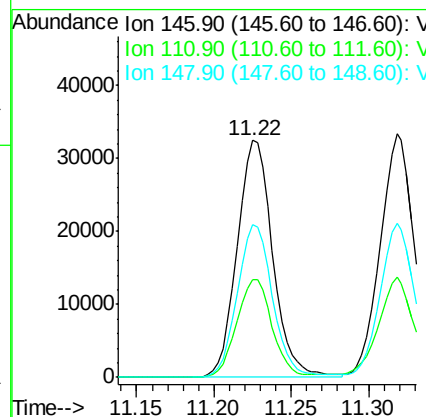
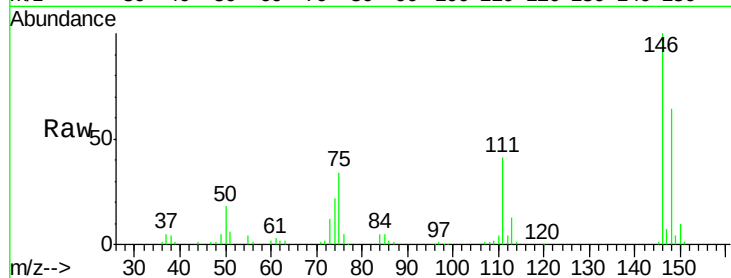
#87
 1,3-Dichlorobenzene
 Concen: 20.829 ug/l
 RT: 11.22 min Scan# 3152
 Delta R.T. -0.00 min
 Lab File: VV009232.D
 Acq: 22 Jan 2019 12:57

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.3	21.1	63.4
148	63.8	32.1	96.3

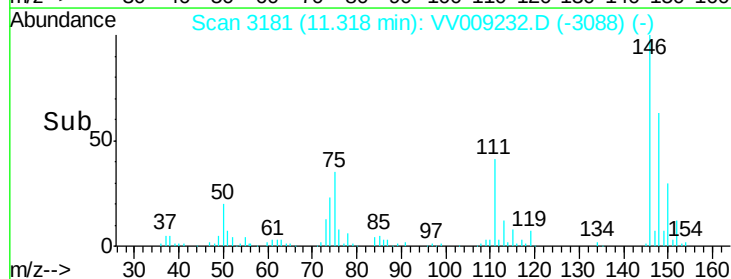
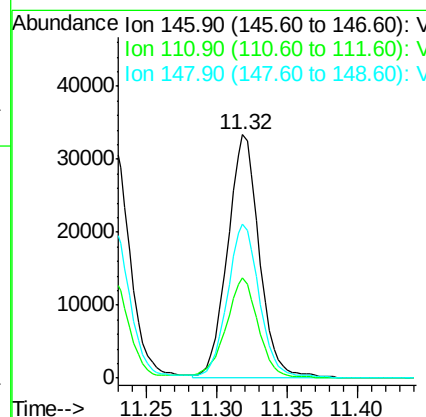
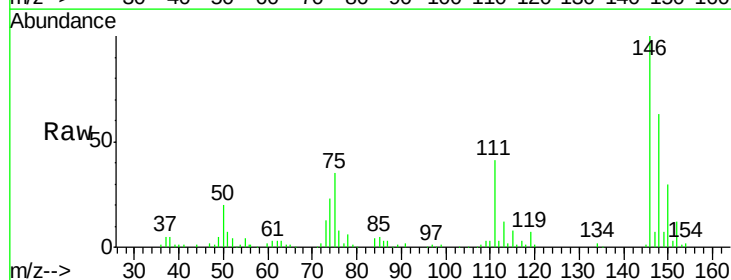
Manual Integrations
 APPROVED

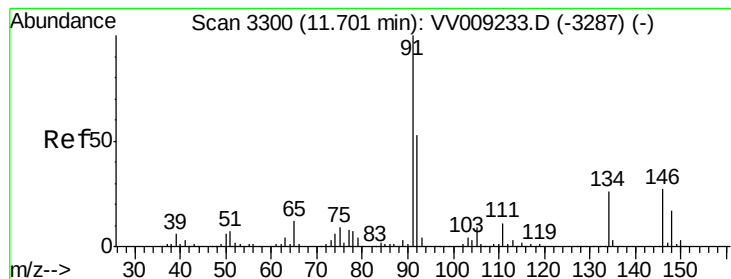
MMDadoda
 1/24/2019 11:43:50 AM



#88
 1,4-Dichlorobenzene
 Concen: 20.838 ug/l
 RT: 11.32 min Scan# 3181
 Delta R.T. 0.00 min
 Lab File: VV009232.D
 Acq: 22 Jan 2019 12:57

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.3	20.5	61.5
148	64.0	31.4	94.3





#89

n-Butylbenzene

Concen: 20.800 ug/l

RT: 11.70 min Scan# 3300

Delta R.T. 0.00 min

Lab File: VV009232.D

Acq: 22 Jan 2019 12:57

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC020

Tot Ion: 91 Resp: 103177
Ion Ratio Lower Upper

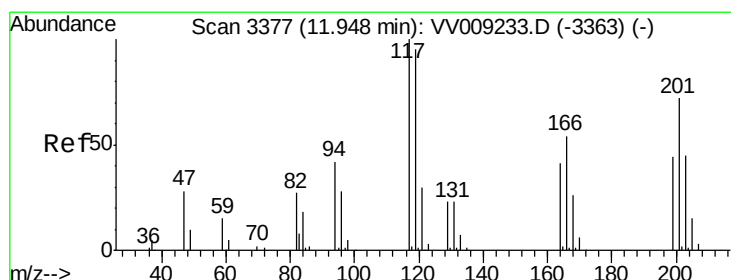
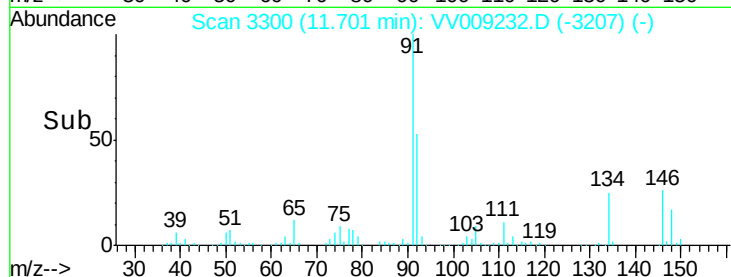
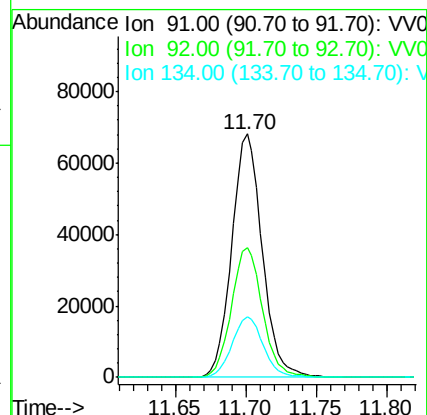
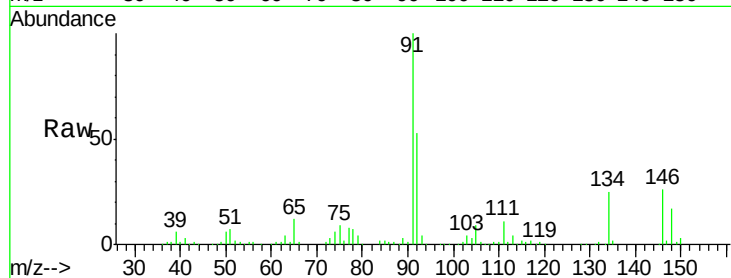
91 100

92 54.2 27.2 81.5

134 25.3 12.6 37.8

Manual Integrations
APPROVED

MMDadoda
1/24/2019 11:43:50 AM



#90

Hexachloroethane

Concen: 20.312 ug/l

RT: 11.95 min Scan# 3377

Delta R.T. 0.00 min

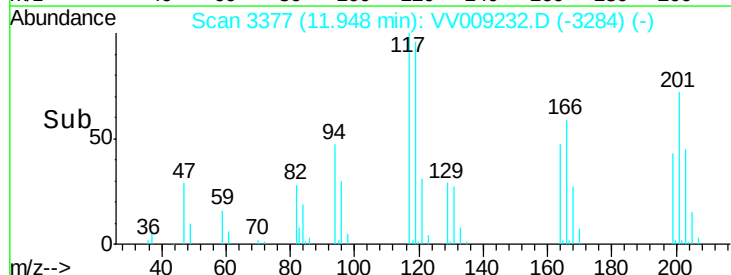
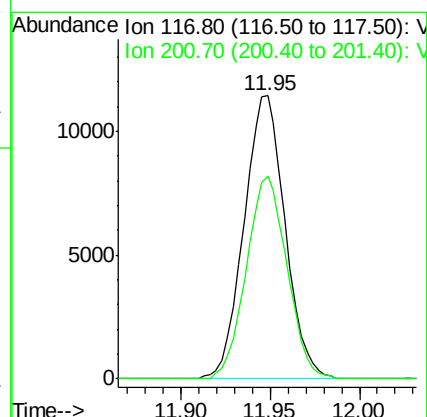
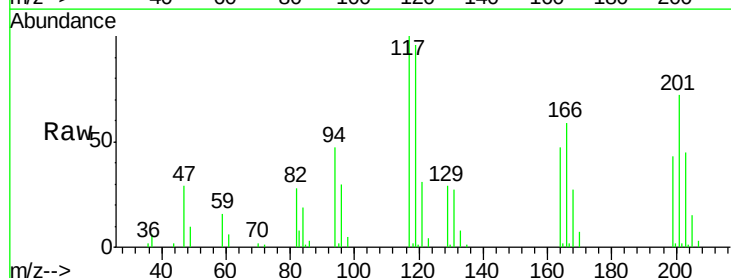
Lab File: VV009232.D

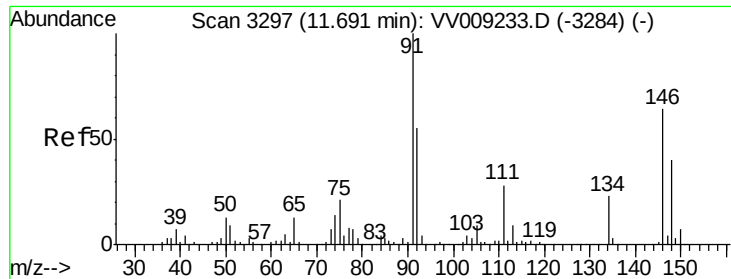
Acq: 22 Jan 2019 12:57

Tgt Ion: 117 Resp: 18451
Ion Ratio Lower Upper

117 100

201 70.6 35.2 105.6





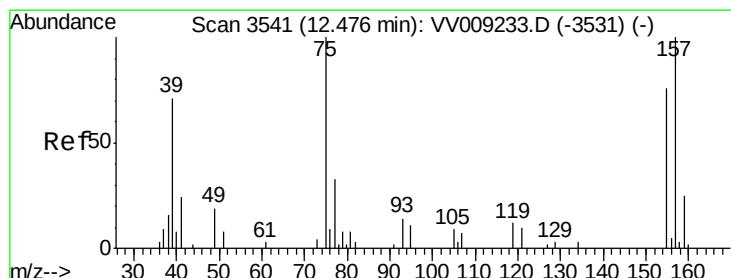
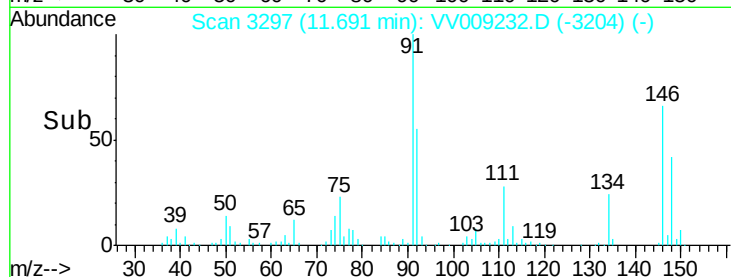
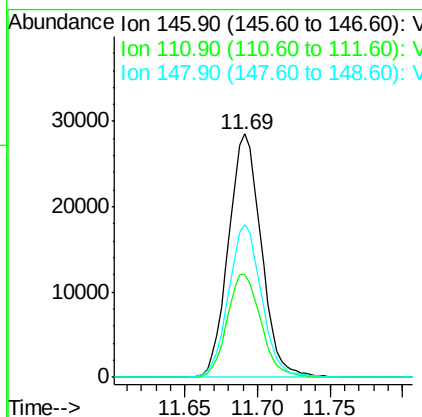
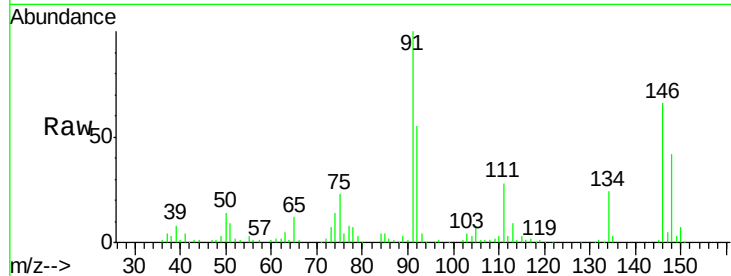
#91
 1,2-Dichlorobenzene
 Concen: 20.164 ug/l
 RT: 11.69 min Scan# 3297
 Delta R.T. 0.00 min
 Lab File: VV009232.D
 Acq: 22 Jan 2019 12:57

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.3	21.9	65.8
148	62.9	31.6	95.0

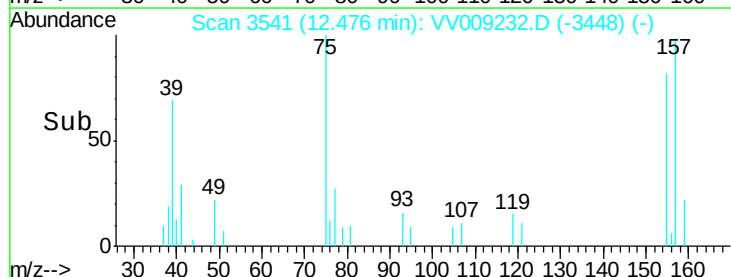
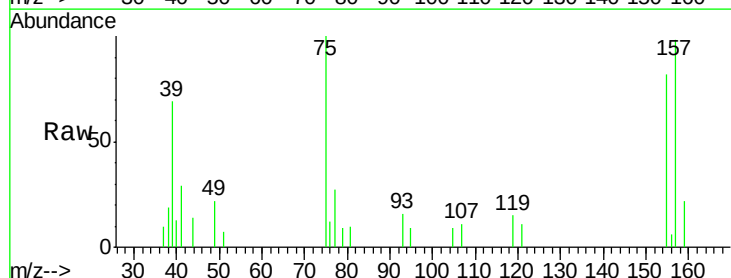
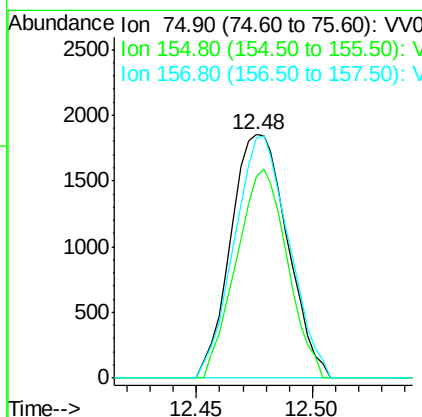
Manual Integrations
 APPROVED

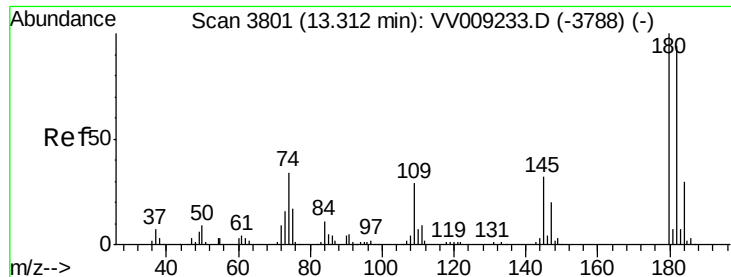
MMDadoda
 1/24/2019 11:43:50 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.443 ug/l
 RT: 12.48 min Scan# 3541
 Delta R.T. 0.00 min
 Lab File: VV009232.D
 Acq: 22 Jan 2019 12:57

Tgt Ion	Ratio	Lower	Upper
75	100		
155	77.0	38.0	114.0
157	95.9	50.8	152.4





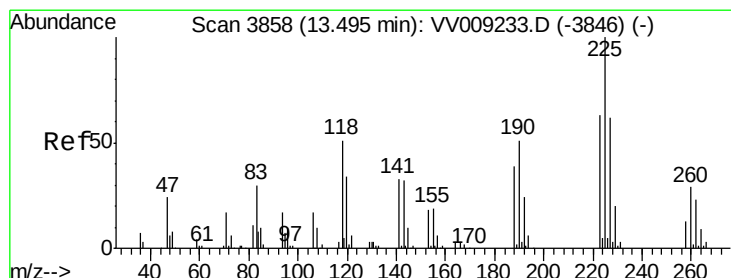
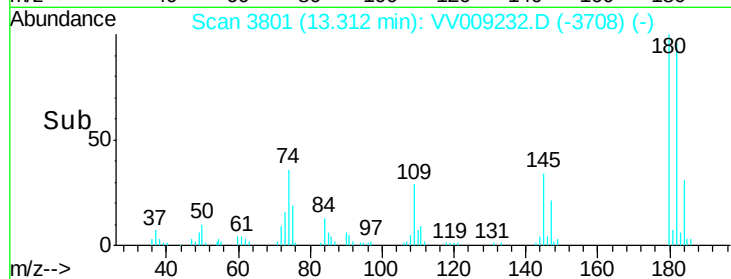
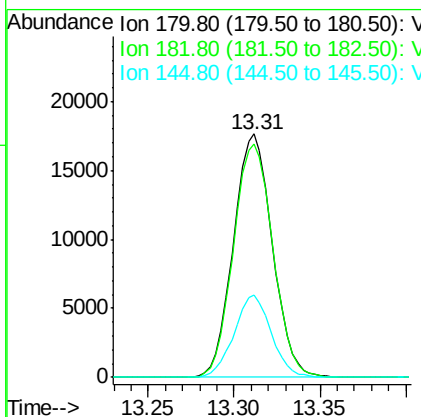
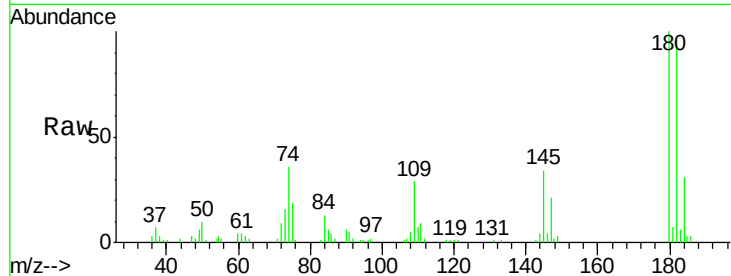
#93
 1,2,4-Trichlorobenzene
 Concen: 18.324 ug/l
 RT: 13.31 min Scan# 3801
 Delta R.T. 0.00 min
 Lab File: VV009232.D
 Acq: 22 Jan 2019 12:57

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.9	47.1	141.4
145	32.1	16.0	48.0

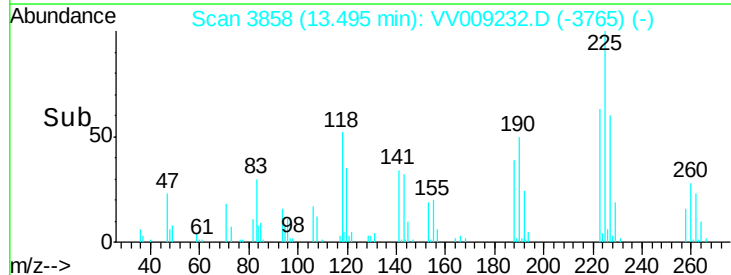
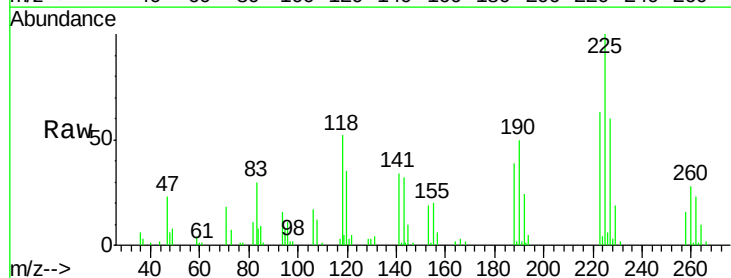
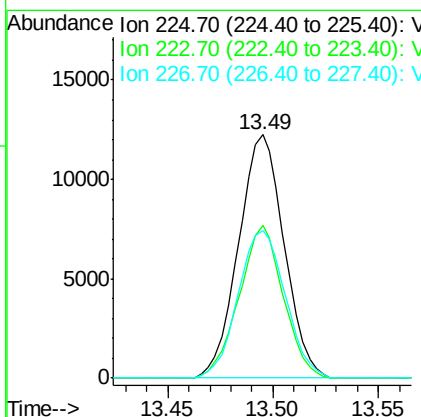
Manual Integrations
 APPROVED

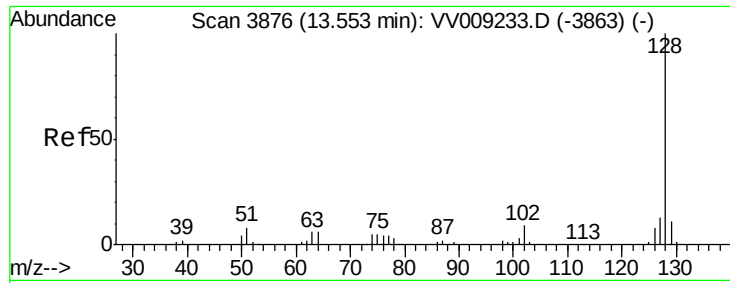
MMDadoda
 1/24/2019 11:43:50 AM



#94
 Hexachlorobutadiene
 Concen: 21.460 ug/l
 RT: 13.49 min Scan# 3858
 Delta R.T. 0.00 min
 Lab File: VV009232.D
 Acq: 22 Jan 2019 12:57

Tgt Ion	Ratio	Lower	Upper
225	100		
223	60.7	31.7	95.1
227	62.8	31.6	95.0





#95

Naphthalene

Concen: 17.110 ug/l

RT: 13.55 min Scan# 3876

Delta R.T. 0.00 min

Lab File: VV009232.D

Acq: 22 Jan 2019 12:57

Instrument :

MSVOA_V

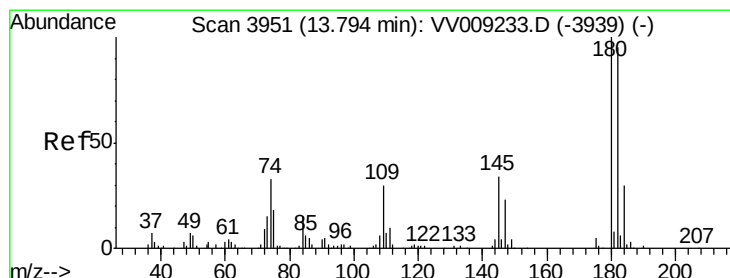
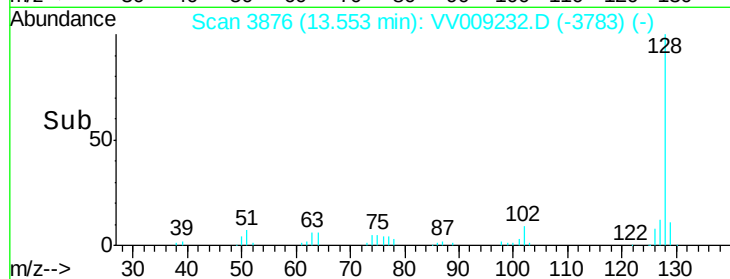
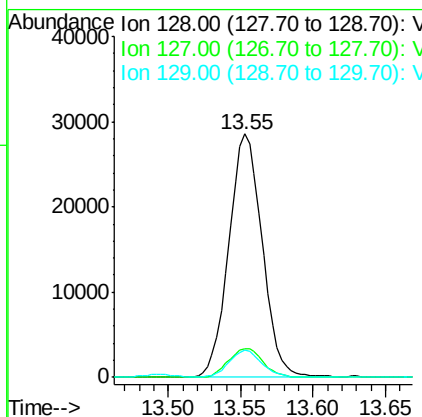
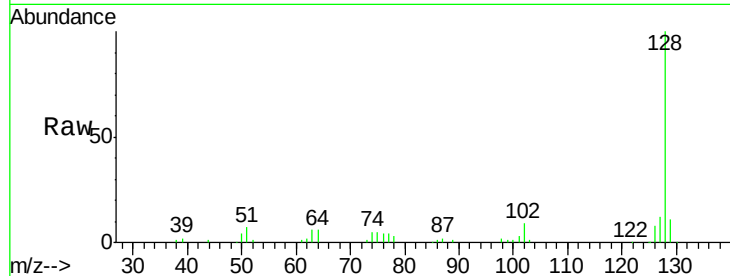
ClientSampleId :

VSTDIC020

Tot Ion:	128	Resp:	45559
Ion	Ratio	Lower	Upper
128	100		
127	12.0	10.7	16.1
129	10.8	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
1/24/2019 11:43:50 AM



#96

1,2,3-Trichlorobenzene

Concen: 18.427 ug/l

RT: 13.79 min Scan# 3951

Delta R.T. 0.00 min

Lab File: VV009232.D

Acq: 22 Jan 2019 12:57

Tgt Ion:	180	Resp:	23734
Ion	Ratio	Lower	Upper
180	100		
182	93.5	47.4	142.2
145	33.2	17.2	51.5

