

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050619\
 Data File : VL033661.D
 Acq On : 6 May 2019 15:40
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL050619

Manual Integrations
 APPROVED

MMDadoda
 5/8/2019 12:06:36 PM

Quant Time: May 07 04:16:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon May 0
 QLast Update : Mon May 06 15:19:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1044873	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2680963	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2847512m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2376554	10.18	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.08	85	1771286	7.228 ppbv	99
3) Chlorodifluoromethane	3.01	51	1252293	8.299 ppbv	97
4) Chloromethane	3.17	50	728072	9.281 ppbv	99
5) Vinyl Chloride	3.29	62	717327	9.405 ppbv	97
6) Bromomethane	3.52	94	434467	8.967 ppbv	96
7) Chloroethane	3.60	64	251431	9.081 ppbv	97
8) Dichlorotetrafluoroethane	3.22	85	1802775	8.937 ppbv	99
9) Propene	3.03	41	569696	9.903 ppbv	98
10) Heptane	8.25	43	1688884	11.896 ppbv	99
11) Trichlorofluoromethane	4.00	101	2009739	8.782 ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1326136	8.620 ppbv	99
13) Ethanol	3.65	45	124758	7.225 ppbv	97
14) Bromoethene	3.79	108	562132	9.270 ppbv	99
15) Acetone	3.90	43	1265577	8.142 ppbv	99
16) 1,3-Butadiene	3.36	39	649027	9.736 ppbv	97
17) tert-Butyl alcohol	4.35	59	1161251	9.836 ppbv	99
18) 1,1-Dichloroethene	4.35	96	597115	8.990 ppbv	99
19) Isopropyl Alcohol	4.02	45	925277	9.689 ppbv	# 97
20) Methylene Chloride	4.41	84	511363	8.664 ppbv	96
21) Allyl Chloride	4.48	41	897677	9.541 ppbv	100
22) trans-1,2-Dichloroethene	4.96	96	634130	9.510 ppbv	98
23) Vinyl Acetate	5.15	43	2146209	10.626 ppbv	99
24) 1,1-Dichloroethane	5.09	63	1438624	9.415 ppbv	99
25) Ethyl Acetate	5.77	43	2452528	9.698 ppbv	99
26) Hexane	5.78	57	1074402	9.883 ppbv	99
27) Carbon Disulfide	4.62	76	1492546	10.038 ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	1908133	10.422 ppbv	100
29) Chloroform	5.85	83	1821390	9.319 ppbv	98
30) Cyclohexane	7.25	84	992913	10.876 ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	1152788	10.660 ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	1871416	9.272 ppbv	99
34) 2-Butanone	5.33	43	1681387	9.794 ppbv	99
35) Carbon Tetrachloride	7.13	117	2025727	9.194 ppbv	100
36) Benzene	7.00	78	2392896	9.954 ppbv	99
37) 1,2-Dichloroethane	6.41	62	1417985	8.454 ppbv	99
38) Trichloroethene	7.96	130	1029541	11.675 ppbv	95
39) 1,2-Dichloropropane	7.74	63	883373	9.859 ppbv	97
40) 1,4-Dioxane	7.96	88	404588	11.299 ppbv	89
41) Tetrahydrofuran	6.15	42	933152	10.518 ppbv	99
42) Bromodichloromethane	7.92	83	2094564	9.671 ppbv	99
43) Methyl Methacrylate	8.14	69	1113787	12.317 ppbv	99

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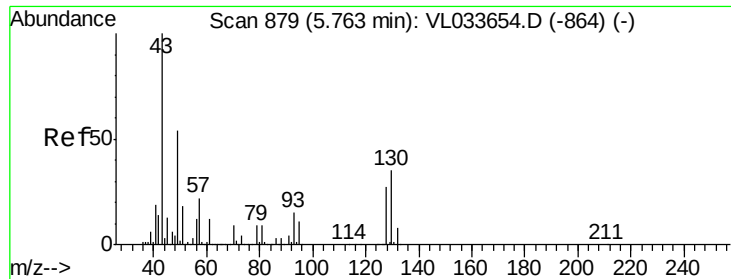
Manual Integrations
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MMDadoda
 5/8/2019 12:06:36 PM

Quant Time: May 07 04:16:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon May 0
 QLast Update : Mon May 06 15:19:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	4358761	10.604	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	1371772	12.360	ppbv	99
46) cis-1,3-Dichloropropene	8.84	75	1651496	11.923	ppbv	99
47) 1,1,2-Trichloroethane	9.61	97	1035053	10.060	ppbv	97
48) Dibromochloromethane	10.45	129	1769325	10.144	ppbv	99
49) Bromoform	13.20	173	1731325	11.427	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	2766529	10.642	ppbv	100
51) 2-Hexanone	10.27	43	2225963	11.053	ppbv	99
52) Tetrachloroethene	11.37	164	883399	10.372	ppbv	99
53) Toluene	9.95	91	2904326	11.182	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1558586	10.056	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.28	131	1188075	9.045	ppbv	96
57) Chlorobenzene	12.30	112	2119680	9.066	ppbv	99
58) Ethyl Benzene	12.87	91	4252499	11.452	ppbv	99
59) m/p-Xylene	13.15	91	7046679m	21.545	ppbv	
60) o-Xylene	13.85	91	3418536	10.328	ppbv	99
61) Styrene	13.68	104	2652926	12.036	ppbv	100
62) Isopropylbenzene	14.82	105	4585022	10.145	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	2312381	9.599	ppbv	100
64) n-propylbenzene	15.72	120	1182830	10.127	ppbv	100
65) tert-Butylbenzene	16.91	119	4040752	9.746	ppbv	100
66) Benzyl Chloride	17.15	91	2231151	11.830	ppbv	100
67) sec-Butylbenzene	17.46	105	5617389	9.711	ppbv	99
69) p-Isopropyltoluene	17.81	119	4778247	10.026	ppbv	100
70) n-Butylbenzene	18.71	91	4959701	9.813	ppbv	100
71) 2-Chlorotoluene	15.61	91	3444892	10.317	ppbv	100
72) 4-Ethyltoluene	16.00	105	4014290	10.318	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	3734118	9.926	ppbv	95
74) 1,2,4-Trimethylbenzene	16.93	105	3896411	9.318	ppbv	98
75) 1,3-Dichlorobenzene	17.16	146	2306812	9.133	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	2305282	9.618	ppbv	99
77) 1,2-Dichlorobenzene	17.99	146	2198570	9.396	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	1992771	10.746	ppbv	100
79) Naphthalene	22.41	128	4598556	12.045	ppbv	99
80) Naphthalene, 2-methyl-	25.11	142	2333662	16.169	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	2343478	10.565	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. 0.00 min

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ICVVL050619

Tot Ion: 49 Resp: 1044873

Ion Ratio Lower Upper

49 100

128 50.8 24.8 74.3

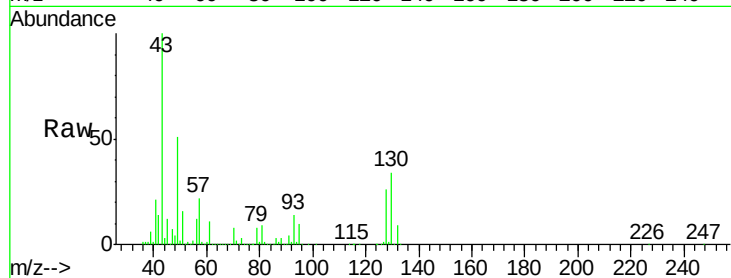
130 65.8 32.1 96.5

Manual Integrations

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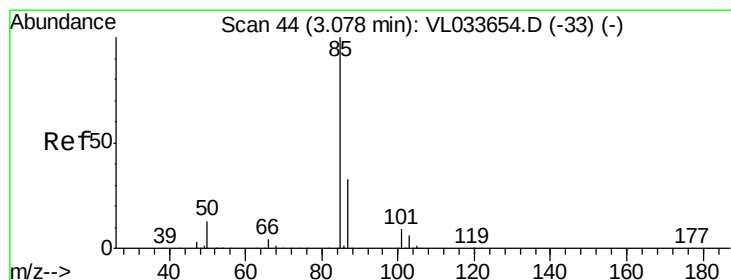
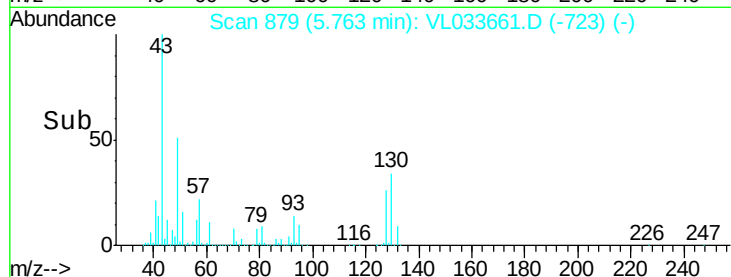
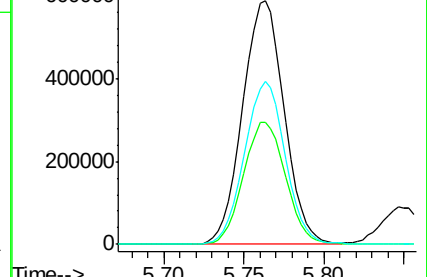
5/8/2019 12:06:36 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 7.228 ppbv

RT: 3.08 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033661.D

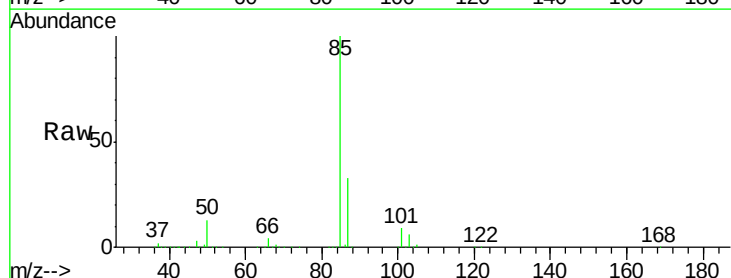
Acq: 6 May 2019 15:40

Tgt Ion: 85 Resp: 1771286

Ion Ratio Lower Upper

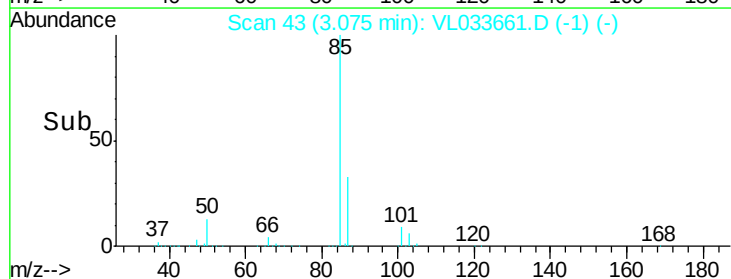
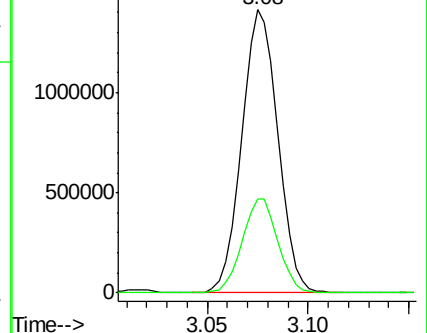
85 100

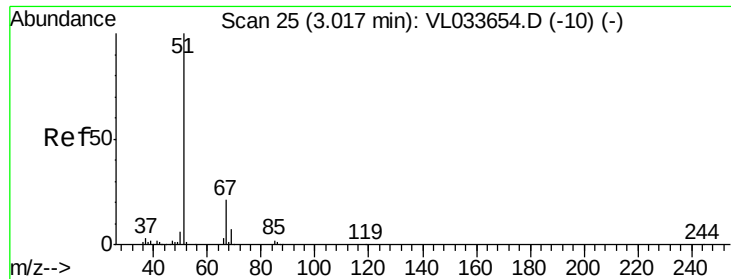
87 33.1 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 8.299 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL033661.D

Acq: 6 May 2019 15:40

Tot Ion: 51 Resp: 1252293

Ion Ratio Lower Upper

51 100

67 18.4 15.7 23.5

Instrument :

MSVOA_L

ClientSampleId :

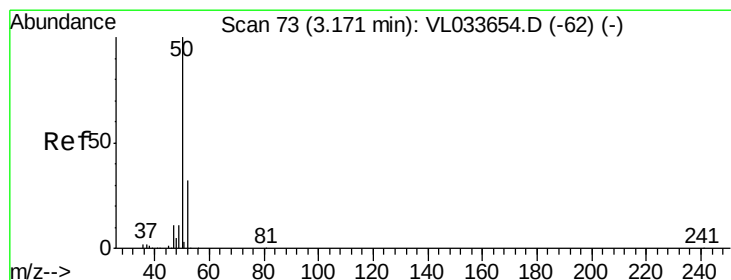
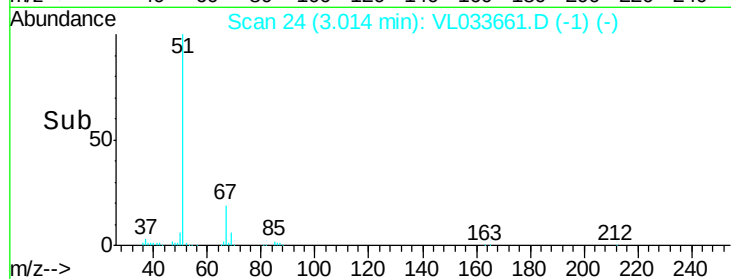
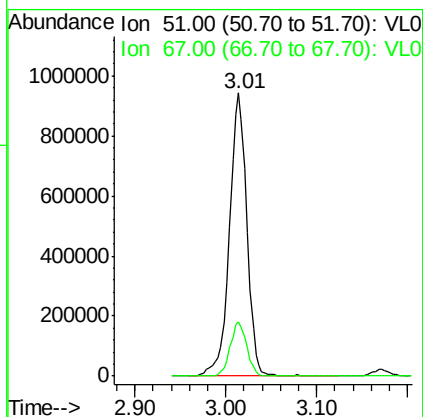
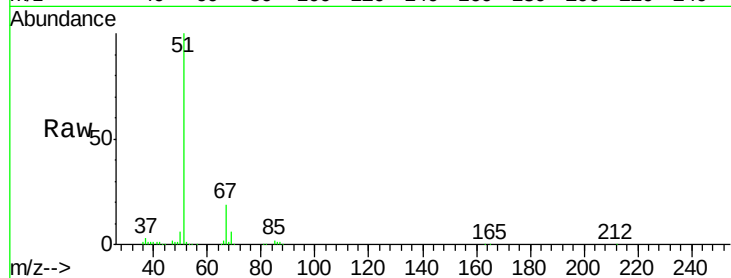
ICVVL050619

Manual Integrations

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#4

Chloromethane

Concen: 9.281 ppbv

RT: 3.17 min Scan# 72

Delta R.T. -0.00 min

Lab File: VL033661.D

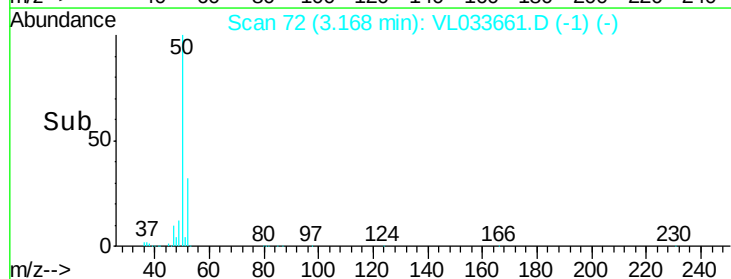
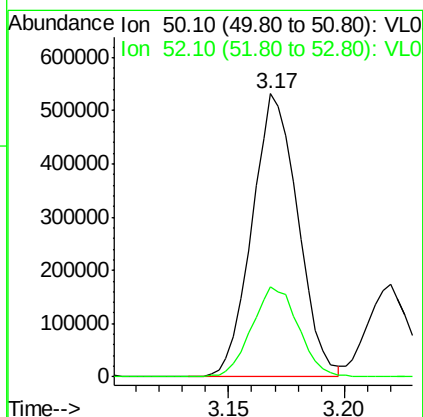
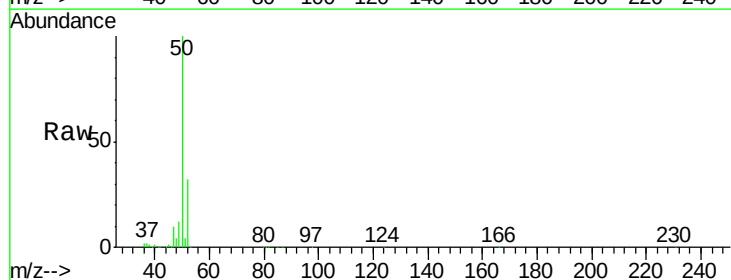
Acq: 6 May 2019 15:40

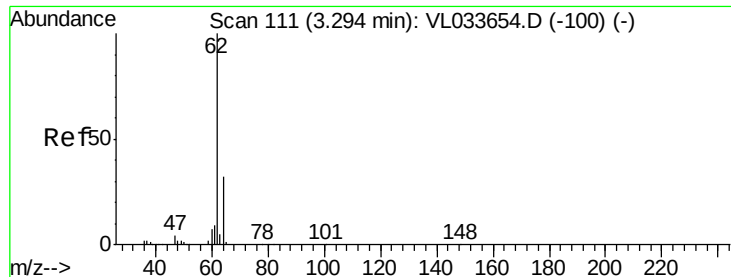
Tgt Ion: 50 Resp: 728072

Ion Ratio Lower Upper

50 100

52 31.9 25.8 38.8





#5

Vinyl Chloride

Concen: 9.405 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033661.D

Acq: 6 May 2019 15:40

Instrument :

MSVOA_L

ClientSampleId :

ICVVL050619

Tot Ion: 62 Resp: 717327

Ion Ratio Lower Upper

62 100

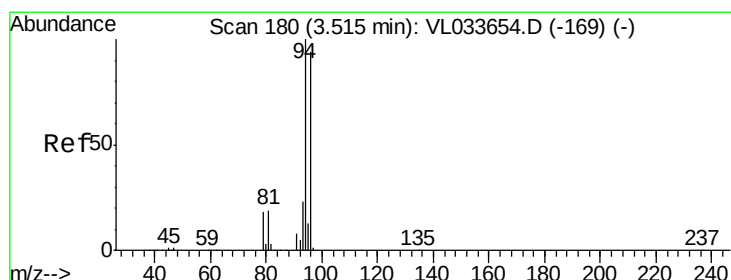
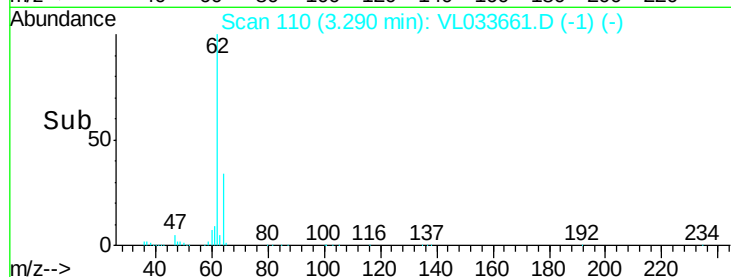
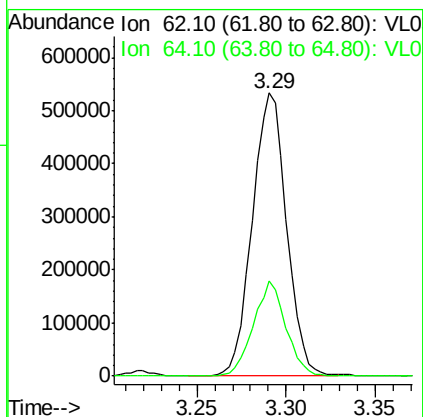
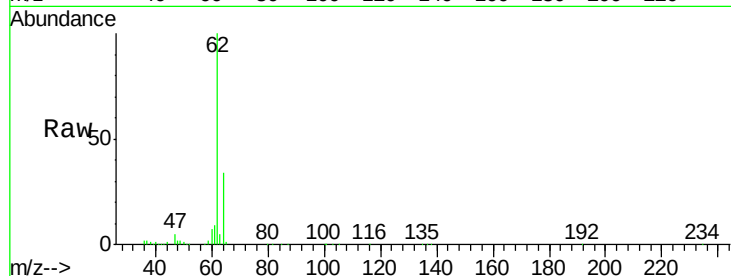
64 33.7 25.6 38.4

Manual Integrations

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#6

Bromomethane

Concen: 8.967 ppbv

RT: 3.52 min Scan# 180

Delta R.T. 0.00 min

Lab File: VL033661.D

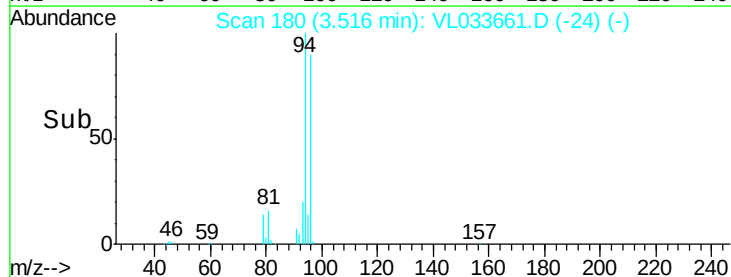
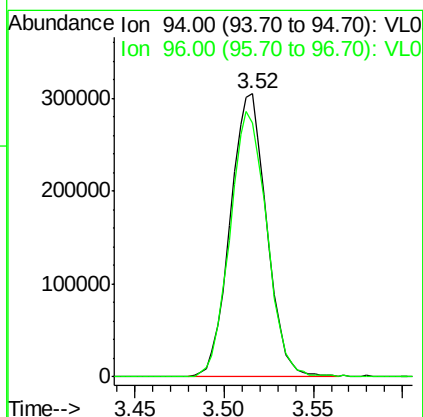
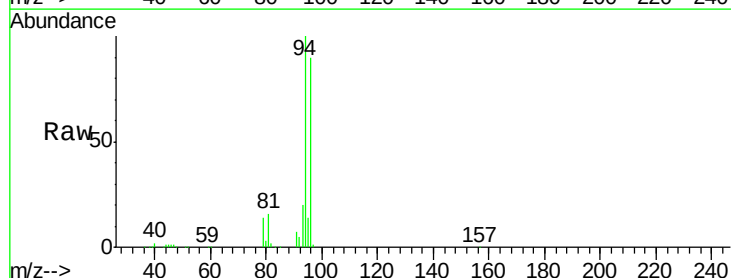
Acq: 6 May 2019 15:40

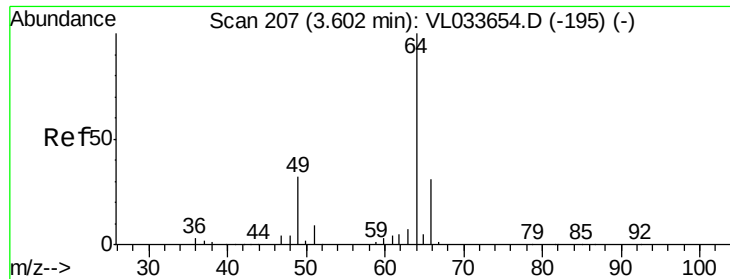
Tgt Ion: 94 Resp: 434467

Ion Ratio Lower Upper

94 100

96 89.8 75.2 112.8





#7

Chloroethane

Concen: 9.081 ppbv

RT: 3.60 min Scan# 206

Delta R.T. -0.00 min

Lab File: VL033661.D

Acq: 6 May 2019 15:40

Instrument :

MSVOA_L

ClientSampleId :

ICVVL050619

Tot Ion: 64 Resp: 251431

Ion Ratio Lower Upper

64 100

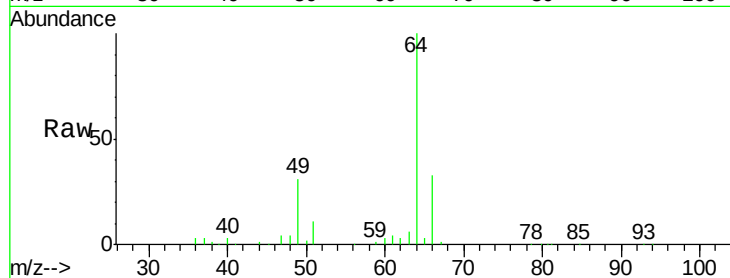
66 33.1 25.1 37.7

Manual Integrations

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.60

200000

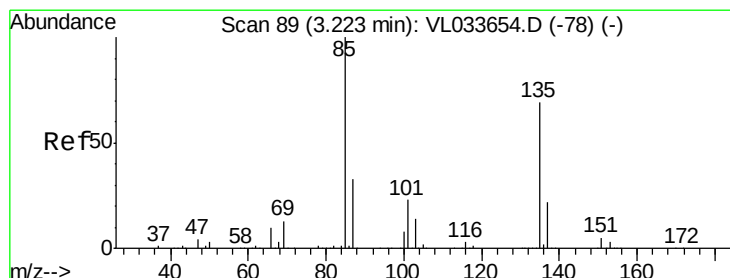
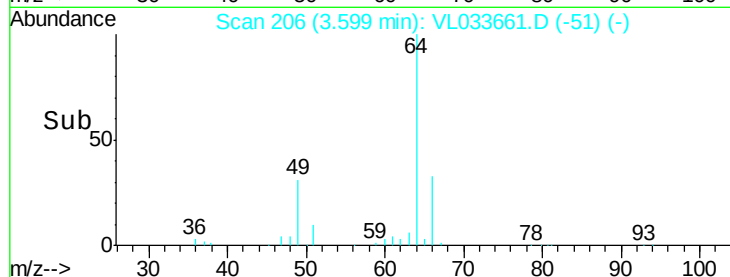
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 8.937 ppbv

RT: 3.22 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL033661.D

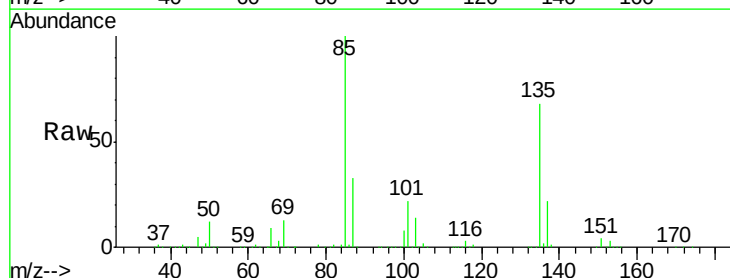
Acq: 6 May 2019 15:40

Tgt Ion: 85 Resp: 1802775

Ion Ratio Lower Upper

85 100

135 68.6 54.3 81.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.22

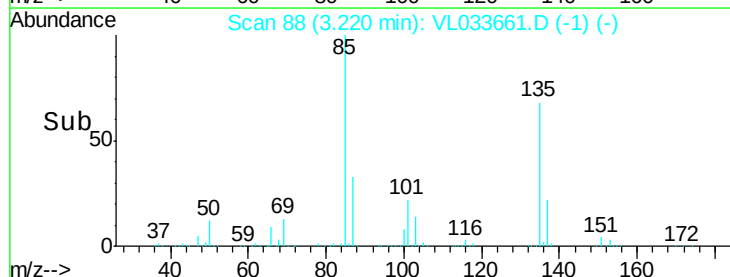
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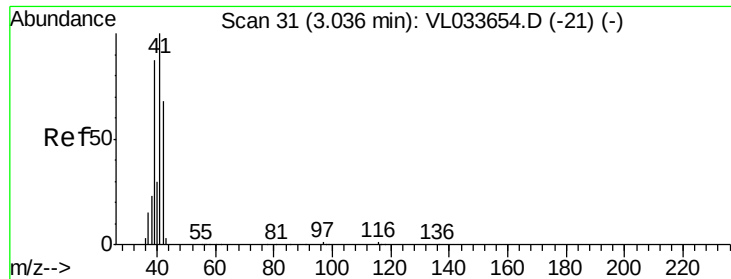
1000000

500000

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Time-->





#9

Propene

Concen: 9.903 ppbv

RT: 3.03 min Scan# 30

Delta R.T. -0.00 min

Lab File: VL033661.D

Acq: 6 May 2019 15:40

Instrument :

MSVOA_L

ClientSampleId :

ICVVL050619

Tot Ion: 41 Resp: 569696

Ion Ratio Lower Upper

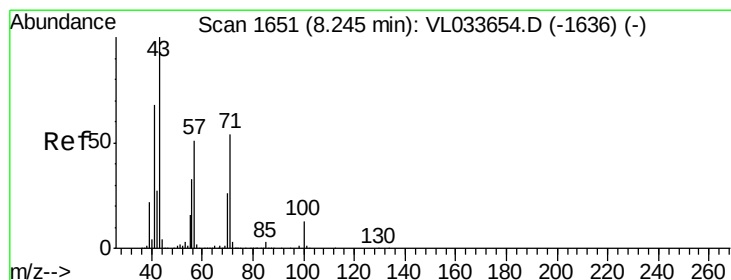
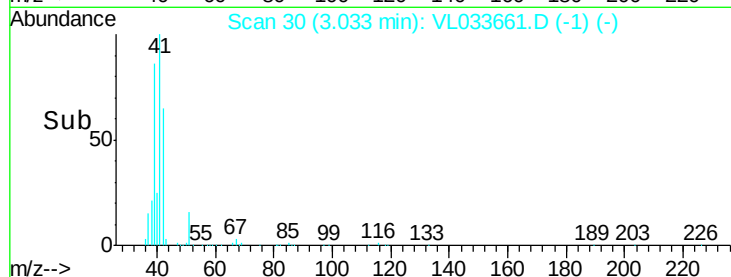
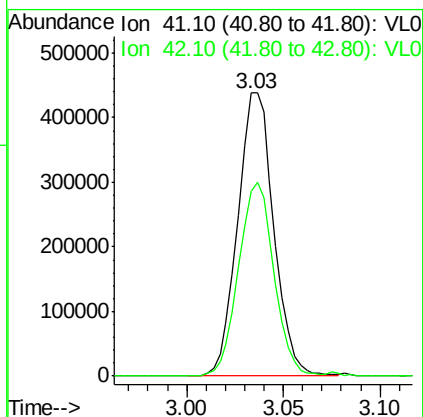
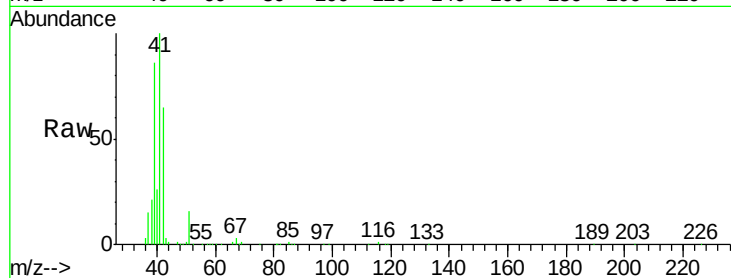
41 100

42 67.9 55.6 83.4

Manual Integrations
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#10

Heptane

Concen: 11.896 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. 0.00 min

Lab File: VL033661.D

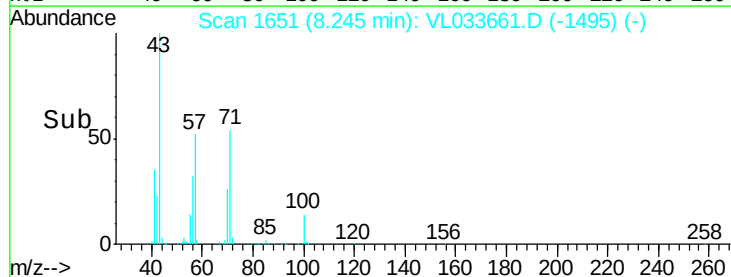
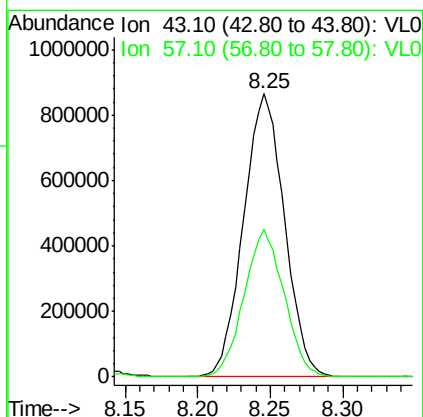
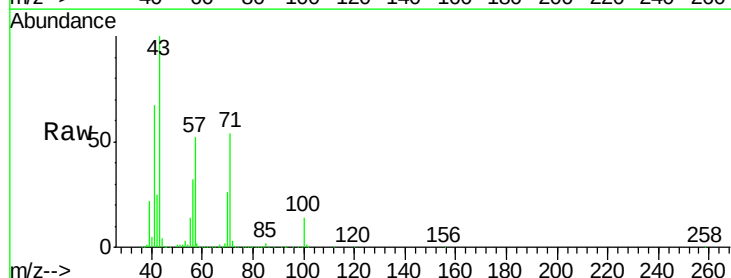
Acq: 6 May 2019 15:40

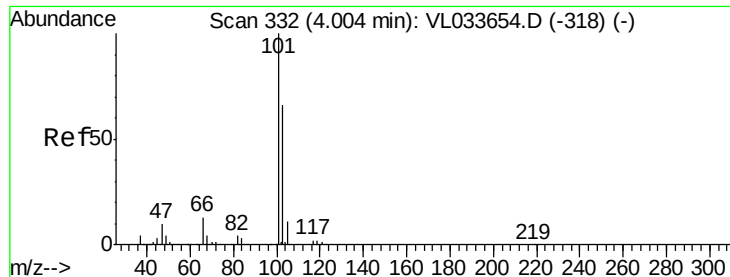
Tgt Ion: 43 Resp: 1688884

Ion Ratio Lower Upper

43 100

57 51.5 41.8 62.6





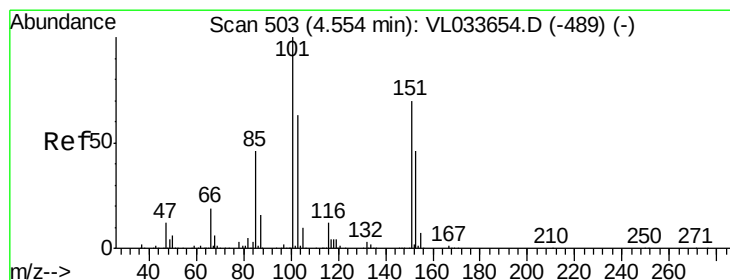
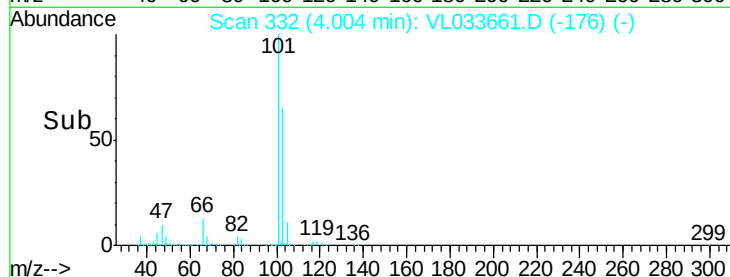
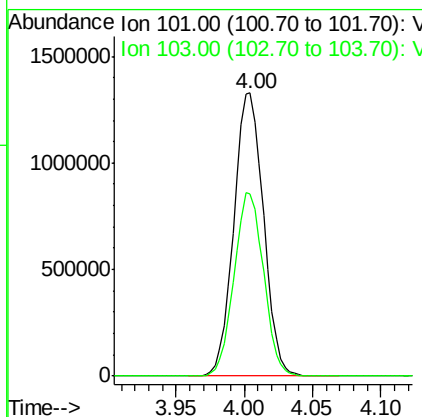
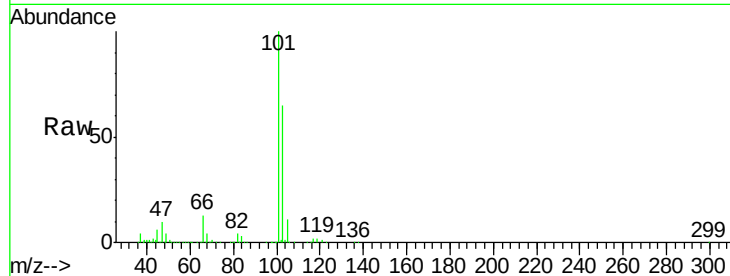
#11
 Trichlorofluoromethane
 Concen: 8.782 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. 0.00 min
 Lab File: VL033661.D
 Acq: 6 May 2019 15:40

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL050619

Tot Ion:101 Resp: 2009739
 Ion Ratio Lower Upper
 101 100
 103 64.6 52.7 79.1

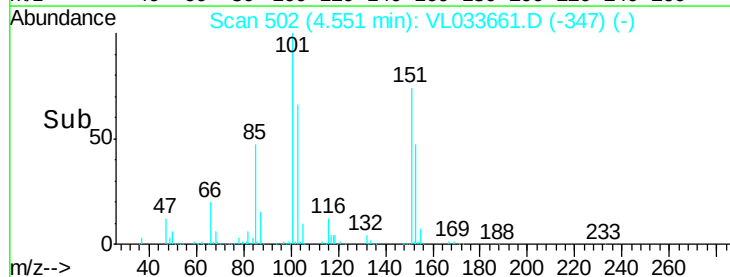
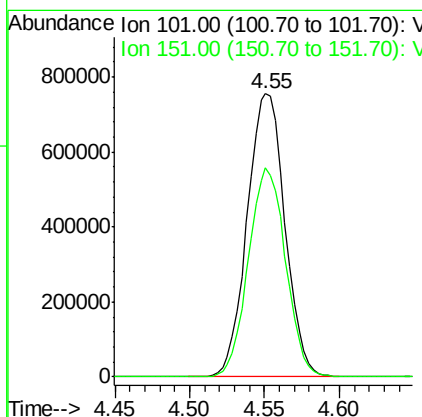
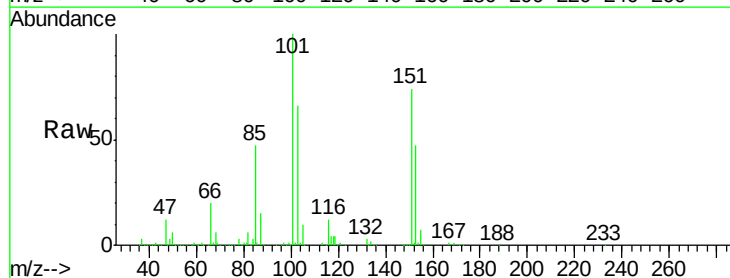
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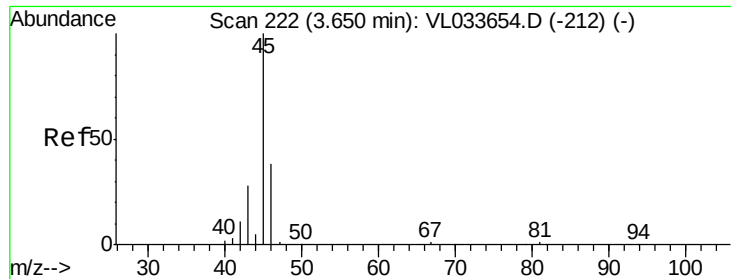
MMDadoda
 5/8/2019 12:06:36 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.620 ppbv
 RT: 4.55 min Scan# 502
 Delta R.T. -0.00 min
 Lab File: VL033661.D
 Acq: 6 May 2019 15:40

Tgt Ion:101 Resp: 1326136
 Ion Ratio Lower Upper
 101 100
 151 73.0 58.0 87.0





#13

Ethanol

Concen: 7.225 ppbv

RT: 3.65 min Scan# 223

Delta R.T. 0.00 min

Lab File: VL033661.D

Acq: 6 May 2019 15:40

Instrument :

MSVOA_L

ClientSampleId :

ICVVL050619

Tot Ion: 45 Resp: 124758

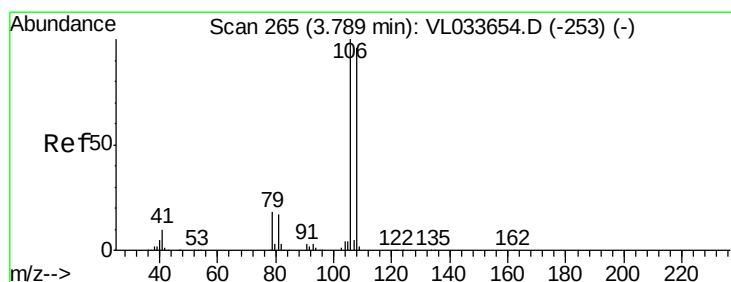
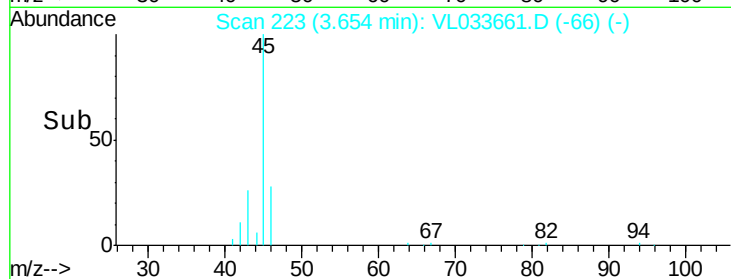
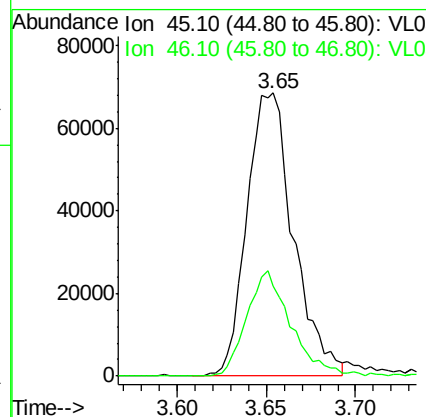
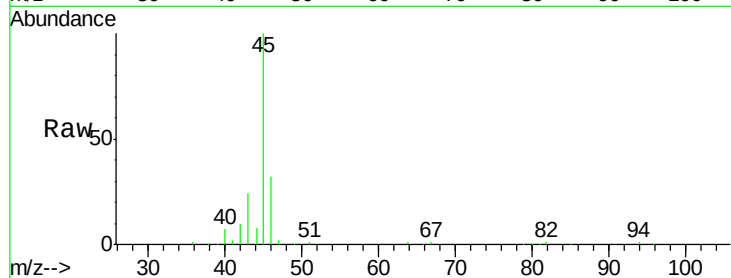
Ion Ratio Lower Upper

45 100

46 35.6 14.9 59.7

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#14

Bromoethene

Concen: 9.270 ppbv

RT: 3.79 min Scan# 264

Delta R.T. -0.00 min

Lab File: VL033661.D

Acq: 6 May 2019 15:40

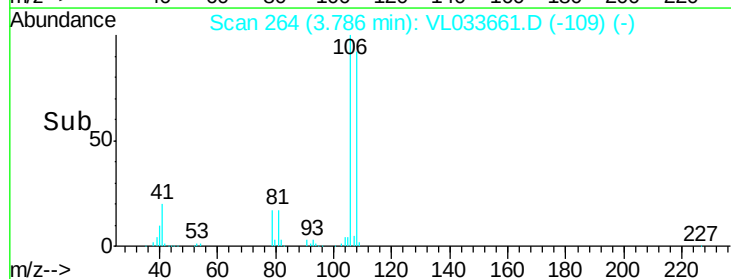
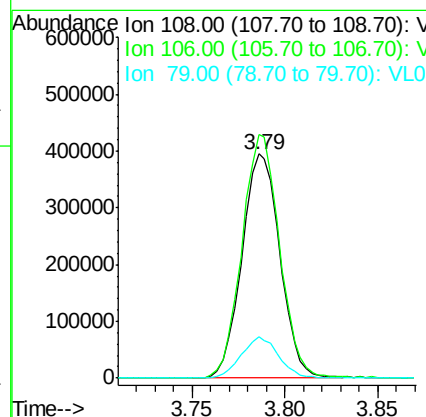
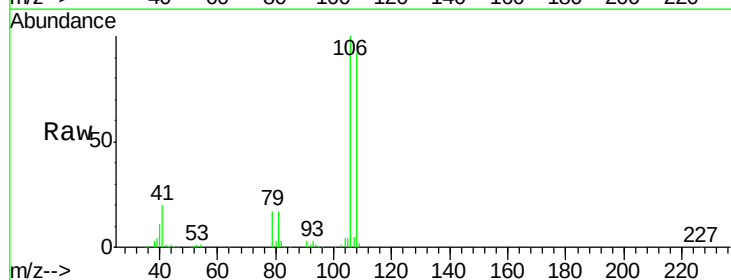
Tgt Ion: 108 Resp: 562132

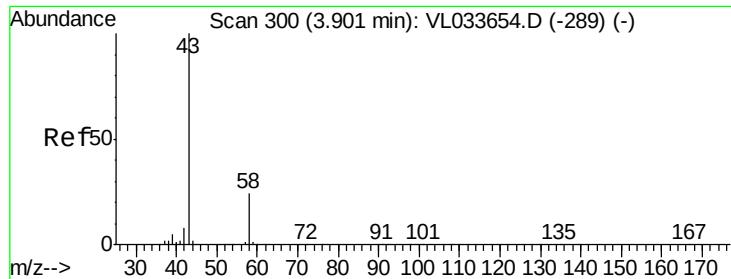
Ion Ratio Lower Upper

108 100

106 108.0 85.7 128.5

79 18.1 15.2 22.8





#15

Acetone

Concen: 8.142 ppbv

RT: 3.90 min Scan# 300

Delta R.T. 0.00 min

Lab File: VL033661.D

Acq: 6 May 2019 15:40

Instrument :

MSVOA_L

ClientSampleId :

ICVVL050619

Tot Ion: 43 Resp: 1265577

Ion Ratio Lower Upper

43 100

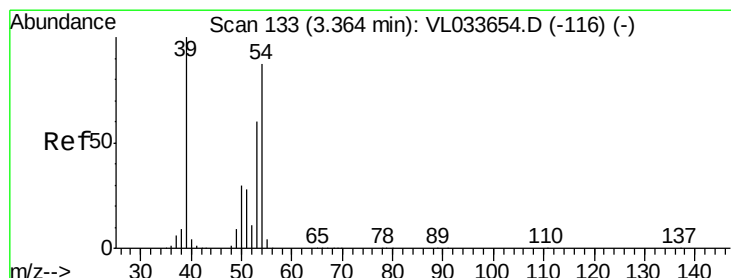
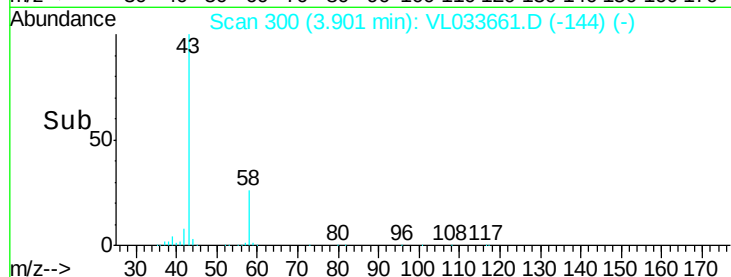
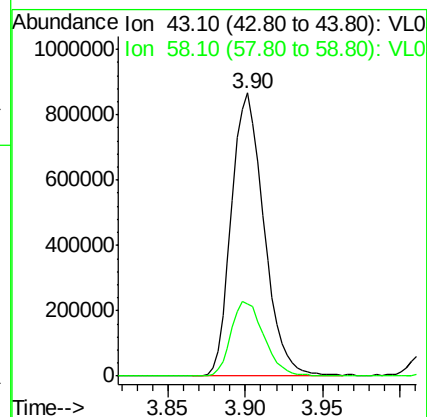
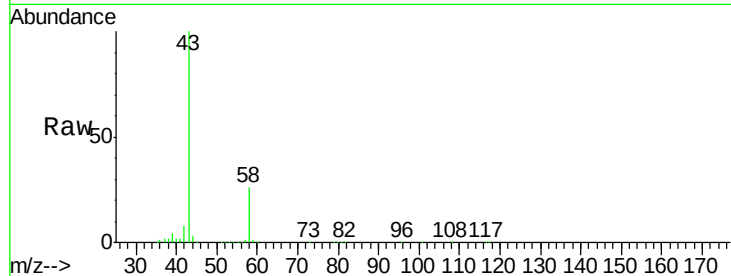
58 26.9 20.9 31.3

Manual Integrations

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#16

1,3-Butadiene

Concen: 9.736 ppbv

RT: 3.36 min Scan# 132

Delta R.T. -0.00 min

Lab File: VL033661.D

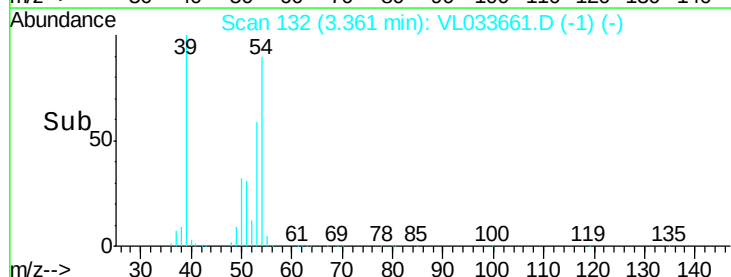
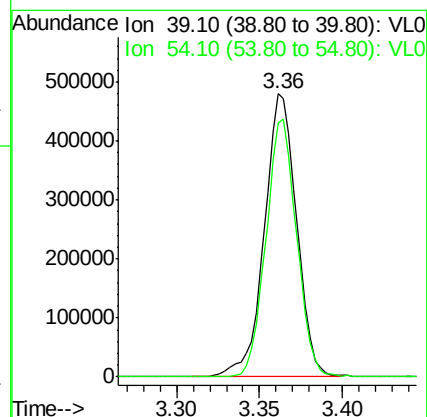
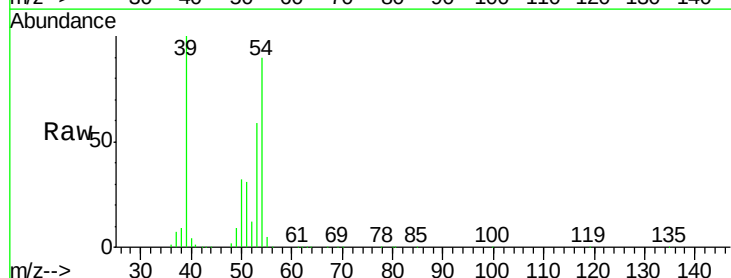
Acq: 6 May 2019 15:40

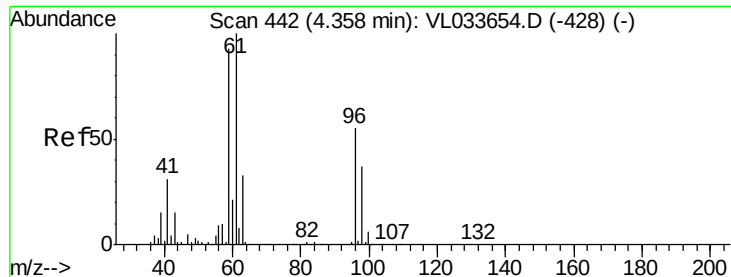
Tgt Ion: 39 Resp: 649027

Ion Ratio Lower Upper

39 100

54 86.8 67.0 100.4





#17

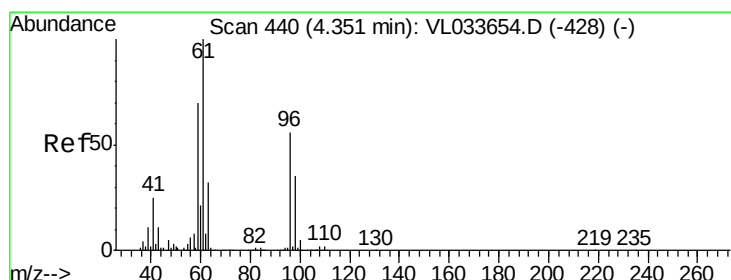
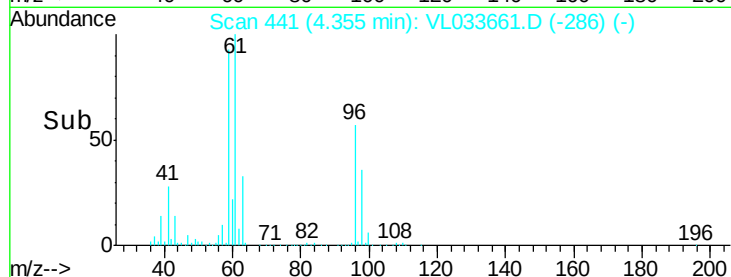
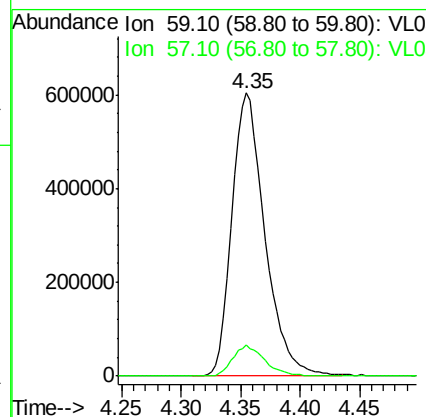
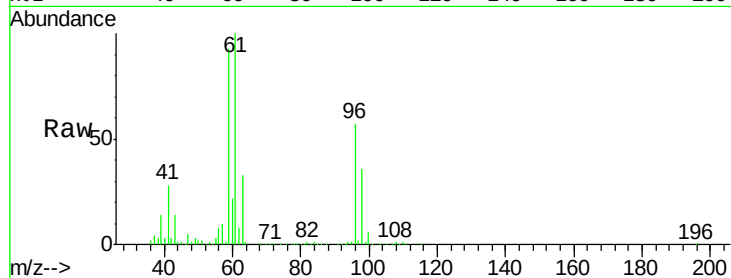
tert-Butyl alcohol
Concen: 9.836 ppbv
RT: 4.35 min Scan# 441
Delta R.T. -0.00 min
Lab File: VL033661.D
Acq: 6 May 2019 15:40

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050619

Tot Ion: 59 Resp: 1161251
Ion Ratio Lower Upper
59 100
57 10.7 8.4 12.6

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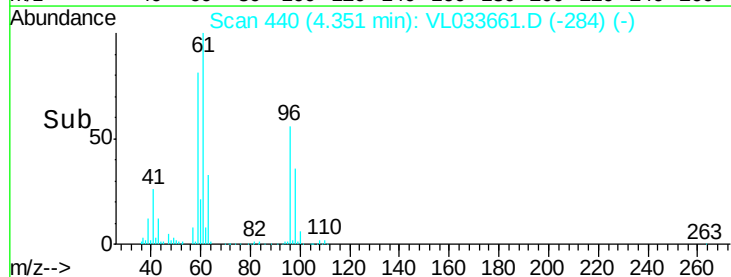
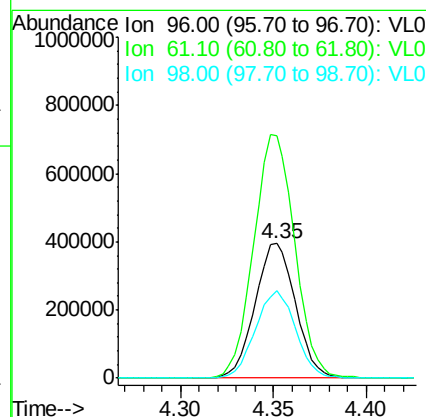
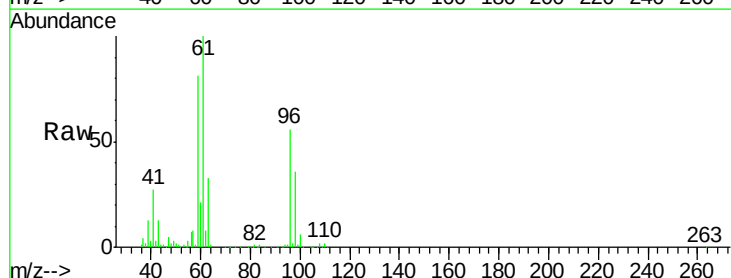
MMDadoda
5/8/2019 12:06:36 PM

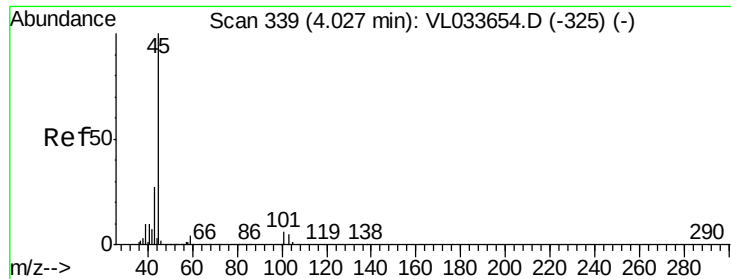


#18

1,1-Dichloroethene
Concen: 8.990 ppbv
RT: 4.35 min Scan# 440
Delta R.T. 0.00 min
Lab File: VL033661.D
Acq: 6 May 2019 15:40

Tgt Ion: 96 Resp: 597115
Ion Ratio Lower Upper
96 100
61 180.0 143.4 215.0
98 65.1 50.4 75.6





#19

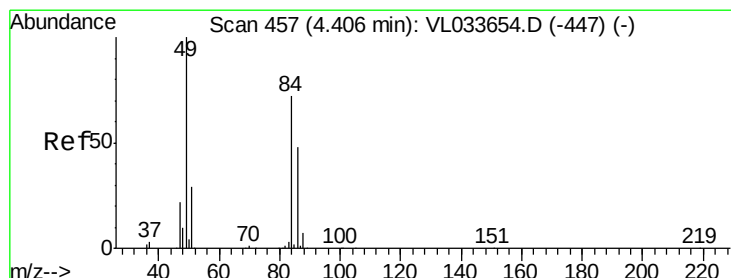
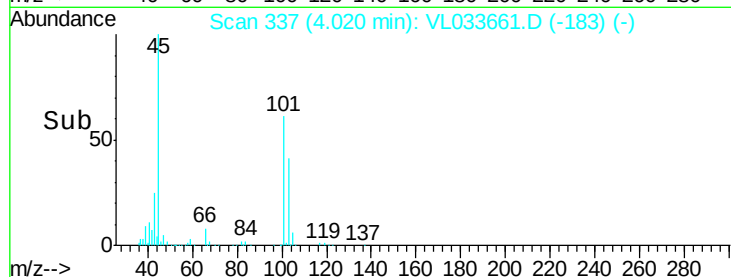
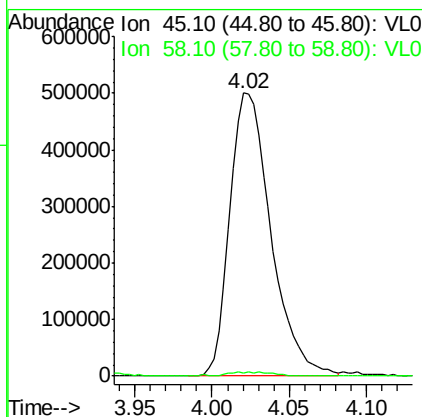
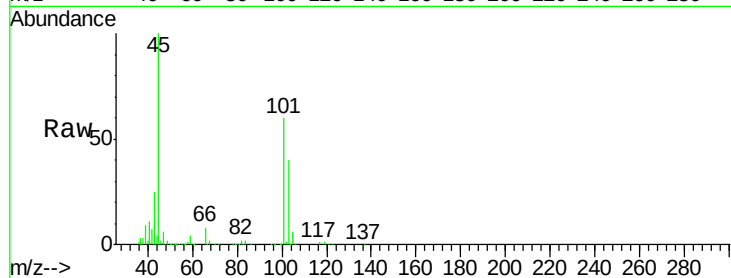
Isopropyl Alcohol
 Concen: 9.689 ppbv
 RT: 4.02 min Scan# 337
 Delta R.T. -0.01 min
 Lab File: VL033661.D
 Acq: 6 May 2019 15:40

Instrument :
 MSVOA_L
 ClientSampled :
 ICVVL050619

Tot Ion	45	Resp	925277
Ion Ratio	100	Lower	Upper
58	1.6	2.0	3.0#

Manual Integrations
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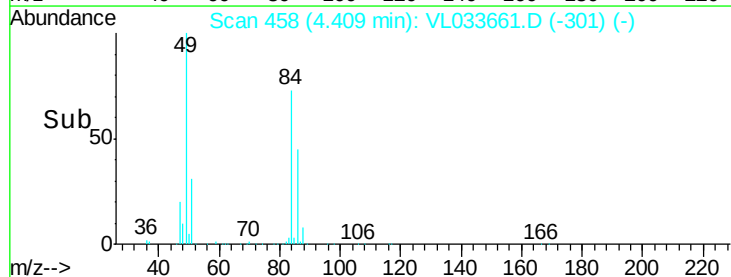
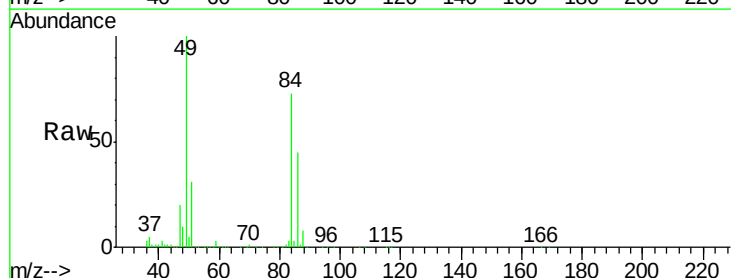
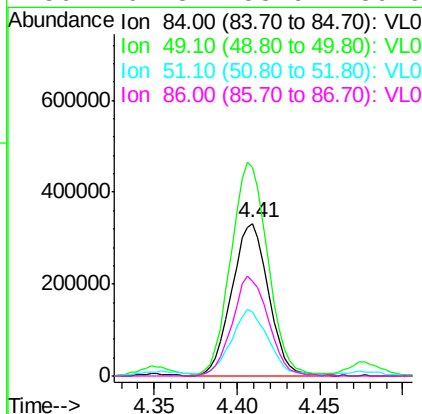
MMDadoda
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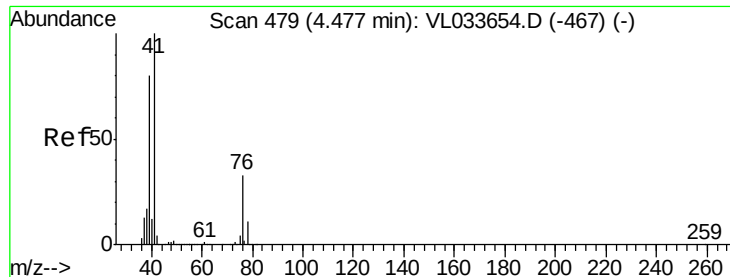


#20

Methylene Chloride
 Concen: 8.664 ppbv
 RT: 4.41 min Scan# 458
 Delta R.T. 0.00 min
 Lab File: VL033661.D
 Acq: 6 May 2019 15:40

Tgt Ion	84	Resp	511363
Ion Ratio	100	Lower	Upper
49	135.3	111.8	167.6
51	40.6	32.3	48.5
86	61.8	53.9	80.9





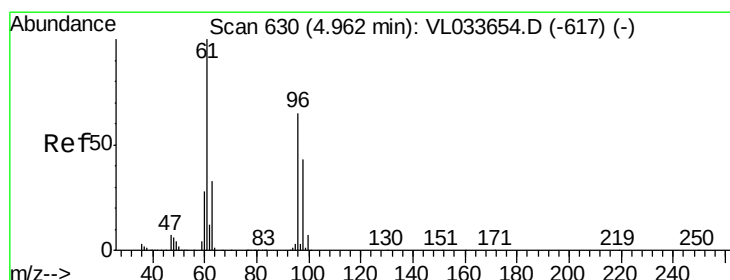
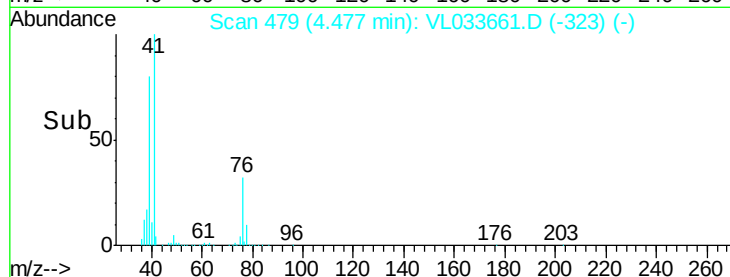
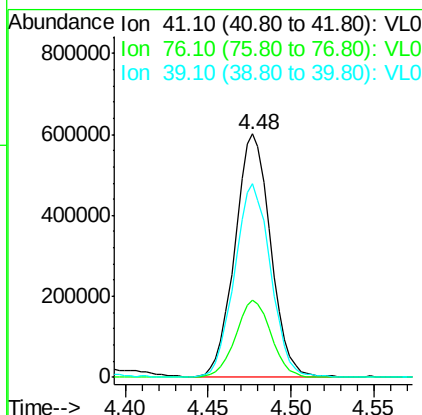
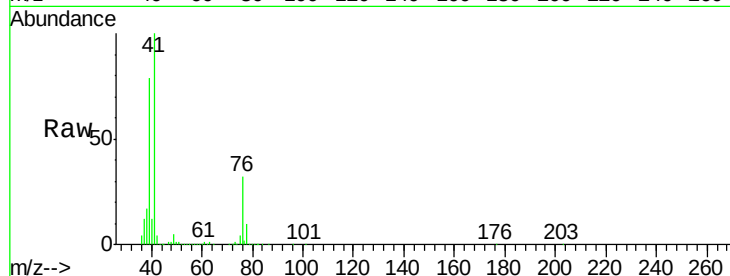
#21
Allvl Chloride
Concen: 9.541 ppbv
RT: 4.48 min Scan# 479
Delta R.T. 0.00 min
Lab File: VL033661.D
Acq: 6 May 2019 15:40

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050619

Tot Ion	Ratio	Lower	Upper
41	100		
76	31.8	26.0	39.0
39	80.6	64.4	96.6

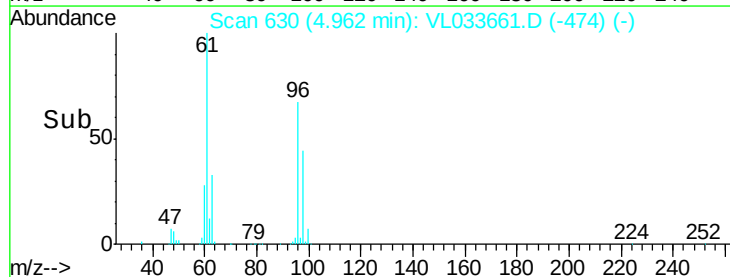
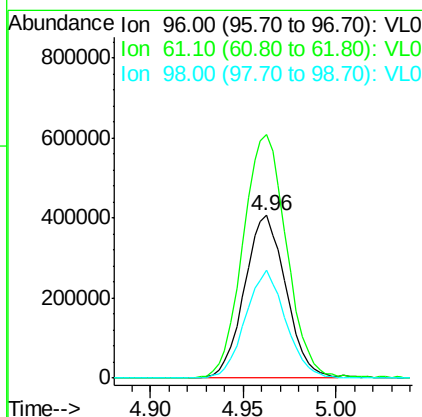
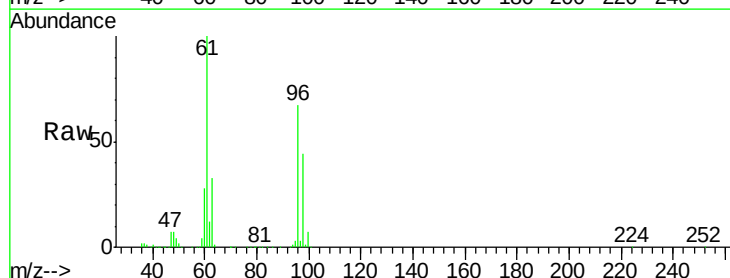
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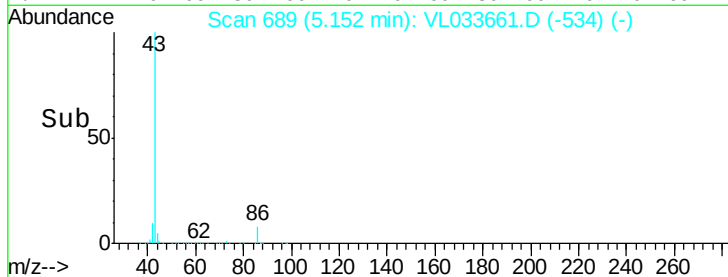
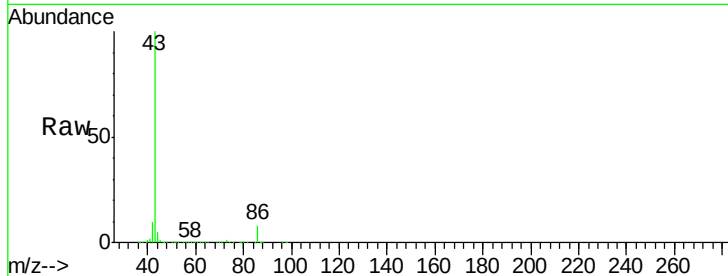
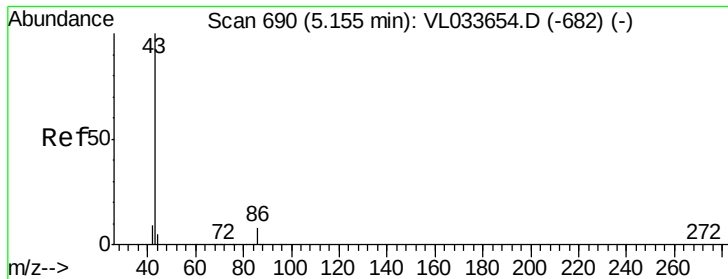
MMDadoda
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#22
trans-1,2-Dichloroethene
Concen: 9.510 ppbv
RT: 4.96 min Scan# 630
Delta R.T. 0.00 min
Lab File: VL033661.D
Acq: 6 May 2019 15:40

Tgt Ion	Ratio	Lower	Upper
96	100		
61	149.5	123.1	184.7
98	66.1	52.6	79.0





#23

Vinyl Acetate

Concen: 10.626 ppbv

RT: 5.15 min Scan# 689

Delta R.T. -0.00 min

Lab File: VL033661.D

Acq: 6 May 2019 15:40

Tot Ion: 43 Resp: 2146209

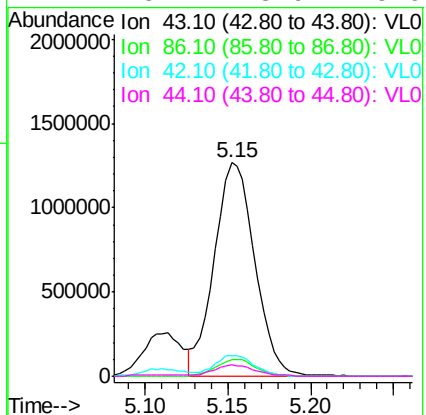
Ion Ratio Lower Upper

43 100

86 7.5 6.0 9.0

42 9.7 8.0 12.0

44 5.2 3.9 5.9



Instrument :

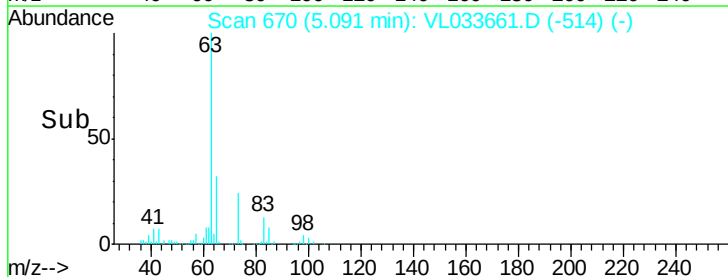
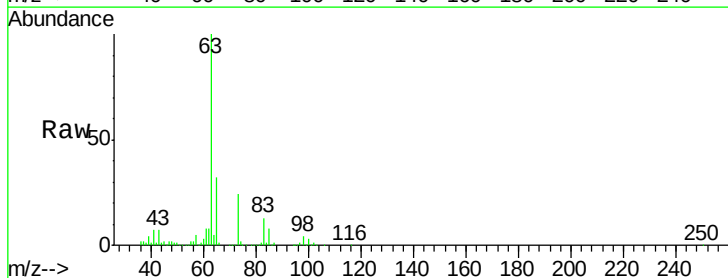
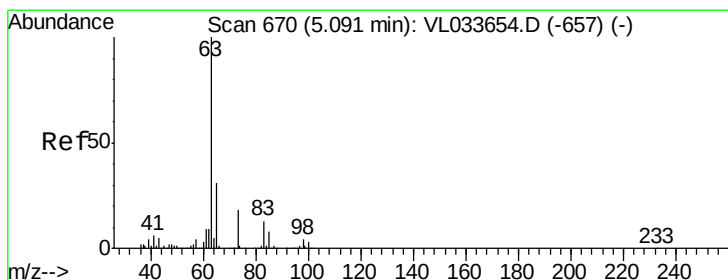
MSVOA_L

ClientSampleId :

ICVVL050619

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#24

1,1-Dichloroethane

Concen: 9.415 ppbv

RT: 5.09 min Scan# 670

Delta R.T. 0.00 min

Lab File: VL033661.D

Acq: 6 May 2019 15:40

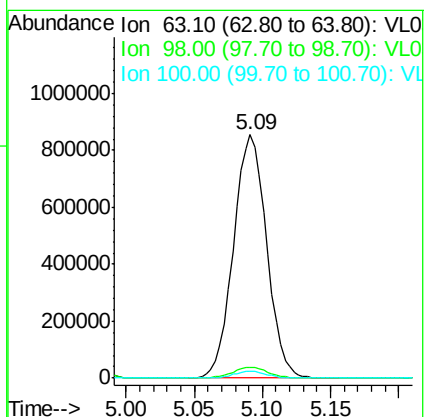
Tgt Ion: 63 Resp: 1438624

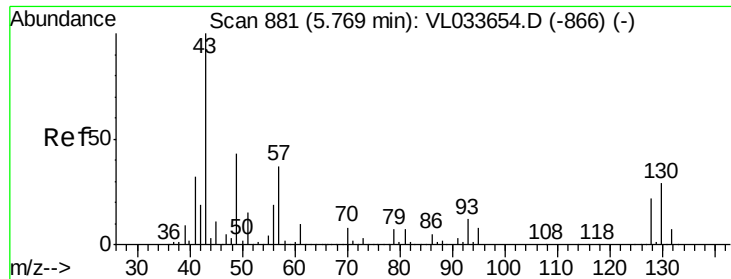
Ion Ratio Lower Upper

63 100

98 4.3 2.1 6.2

100 2.7 1.5 4.4





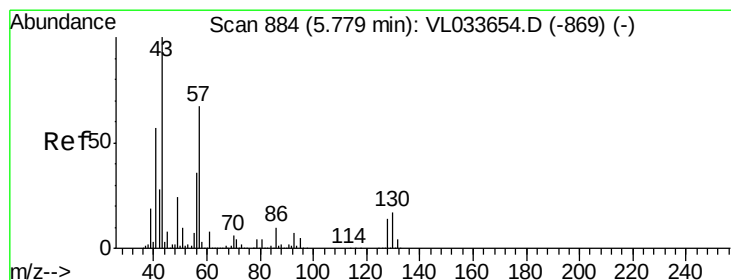
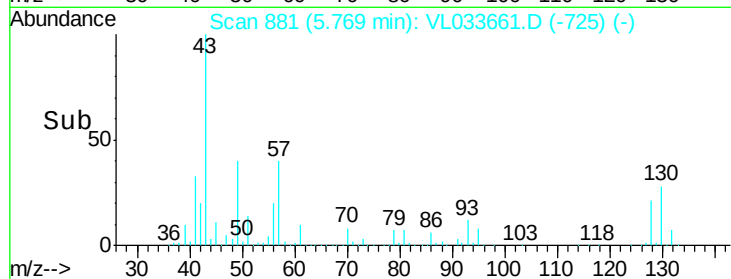
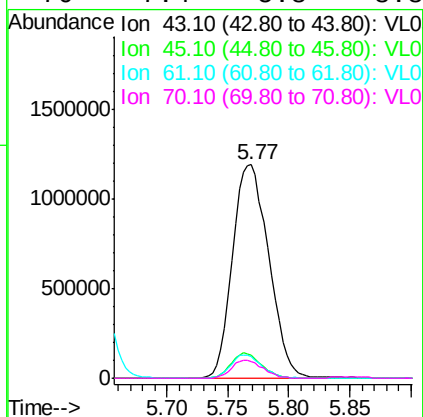
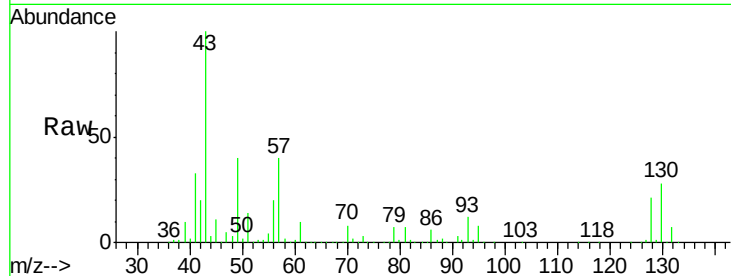
#25
Ethyl Acetate
Concen: 9.698 ppbv
RT: 5.77 min Scan# 881
Delta R.T. 0.00 min
Lab File: VL033661.D
Acq: 6 May 2019 15:40

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050619

Tot Ion:	43	Resp:	2452528
Ion	Ratio	Lower	Upper
43	100		
45	10.2	8.0	12.0
61	9.7	7.5	11.3
70	7.4	5.8	8.8

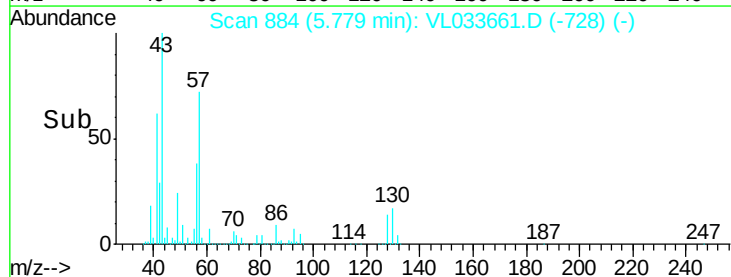
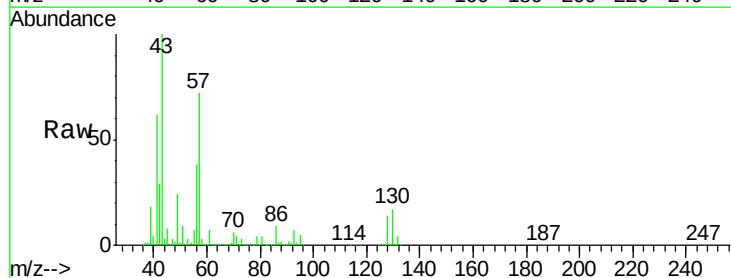
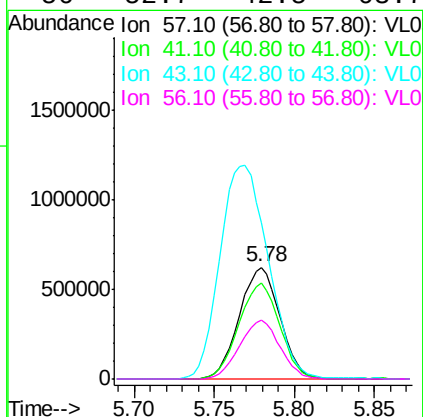
Manual Integrations
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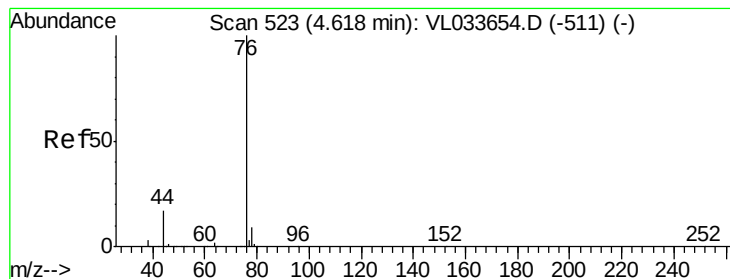
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#26
Hexane
Concen: 9.883 ppbv
RT: 5.78 min Scan# 884
Delta R.T. 0.00 min
Lab File: VL033661.D
Acq: 6 May 2019 15:40

Tgt Ion:	57	Resp:	1074402
Ion	Ratio	Lower	Upper
57	100		
41	87.1	69.7	104.5
43	230.0	181.9	272.9
56	52.7	42.5	63.7





#27

Carbon Disulfide

Concen: 10.038 ppbv

RT: 4.62 min Scan# 523

Delta R.T. 0.00 min

Lab File: VL033661.D

Acq: 6 May 2019 15:40

Instrument :

MSVOA_L

ClientSampleId :

ICVVL050619

Tot Ion: 76 Resp: 1492546

Ion Ratio Lower Upper

76 100

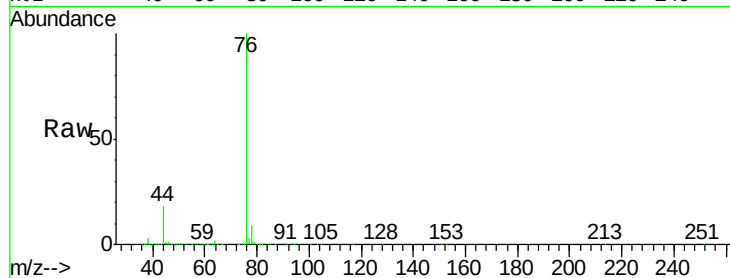
44 17.7 14.4 21.6

78 9.3 7.4 11.2

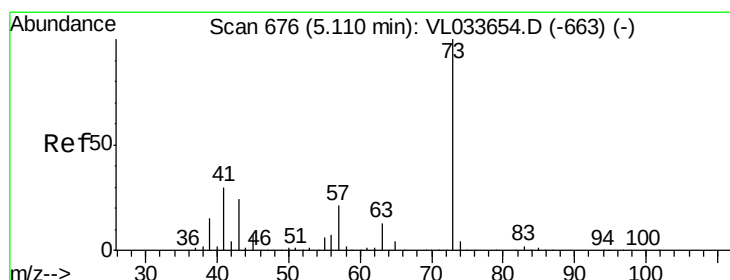
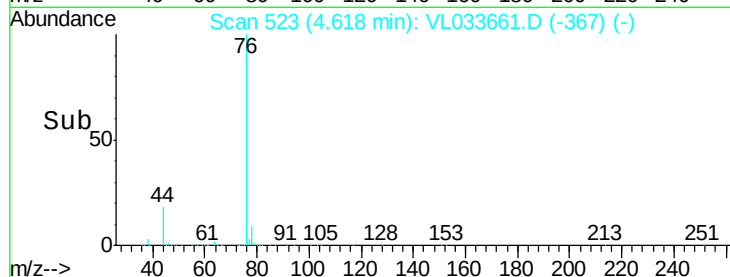
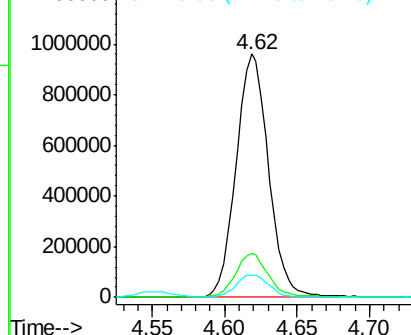
Manual Integrations
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Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 10.422 ppbv

RT: 5.11 min Scan# 676

Delta R.T. 0.00 min

Lab File: VL033661.D

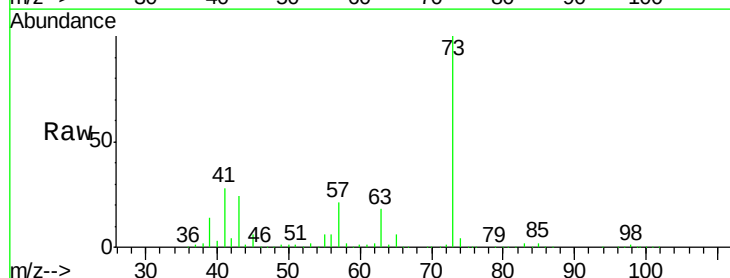
Acq: 6 May 2019 15:40

Tgt Ion: 73 Resp: 1908133

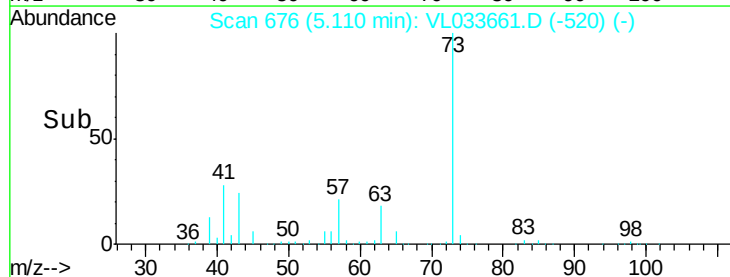
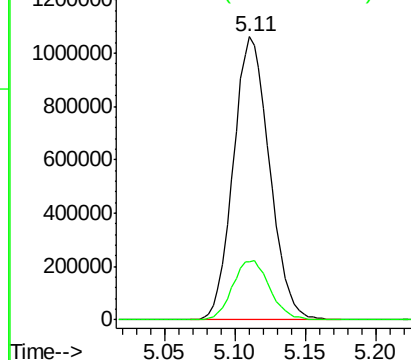
Ion Ratio Lower Upper

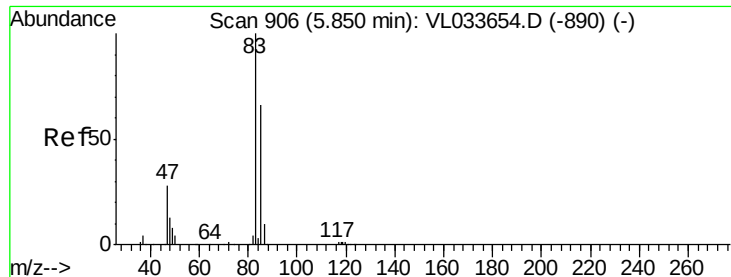
73 100

57 21.7 17.4 26.0



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





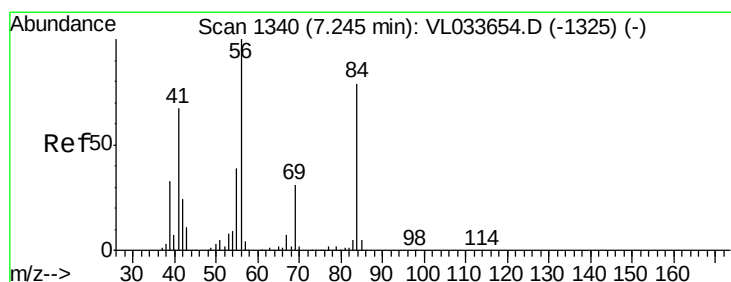
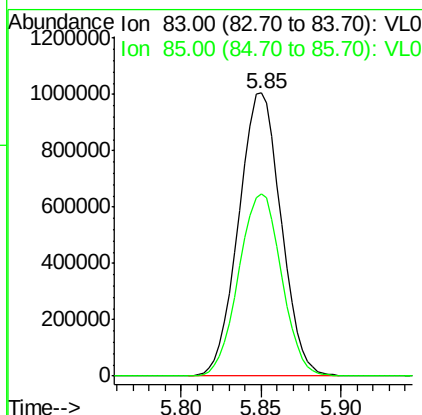
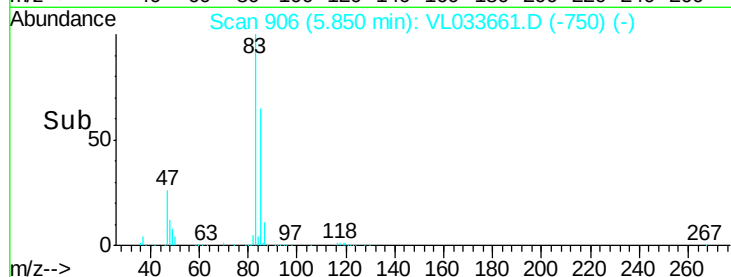
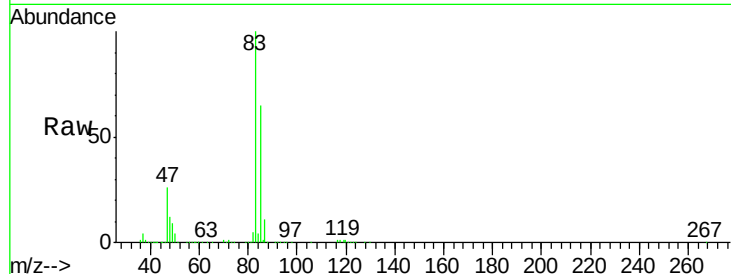
#29
Chloroform
Concen: 9.319 ppbv
RT: 5.85 min Scan# 906
Delta R.T. 0.00 min
Lab File: VL033661.D
Acq: 6 May 2019 15:40

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050619

Tot Ion: 83 Resp: 1821390
Ion Ratio Lower Upper
83 100
85 64.4 52.6 78.8

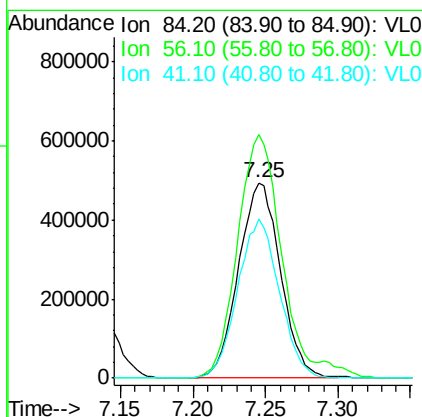
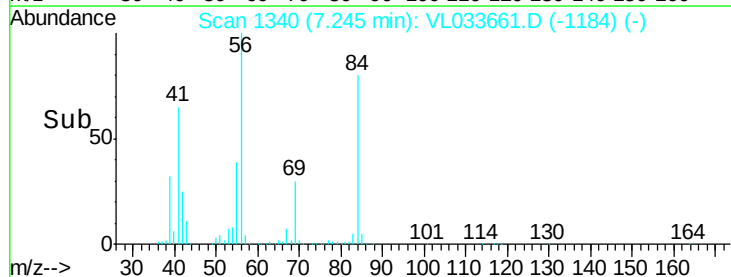
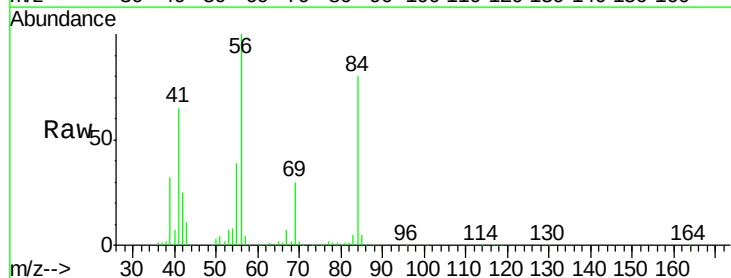
Manual Integrations
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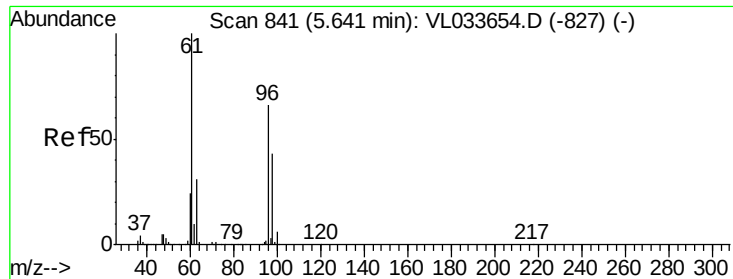
MMDadoda
5/8/2019 12:06:36 PM



#30
Cyclohexane
Concen: 10.876 ppbv
RT: 7.25 min Scan# 1340
Delta R.T. 0.00 min
Lab File: VL033661.D
Acq: 6 May 2019 15:40

Tgt Ion: 84 Resp: 992913
Ion Ratio Lower Upper
84 100
56 132.9 107.0 160.4
41 81.1 66.6 99.8





#31

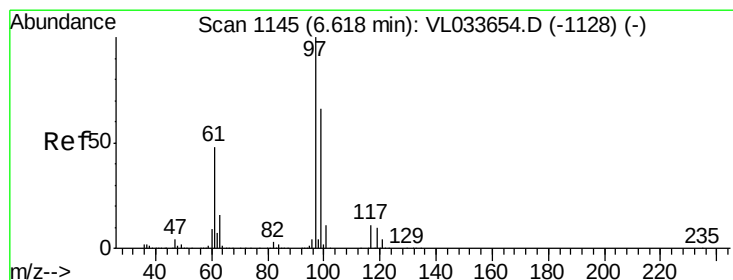
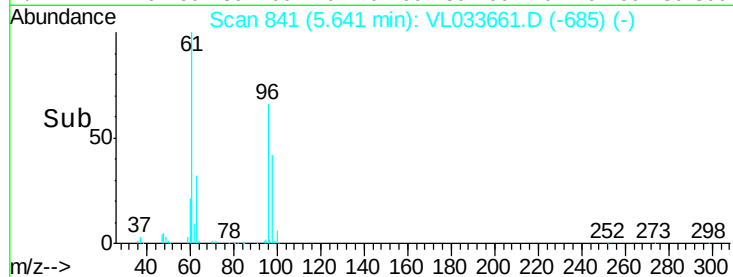
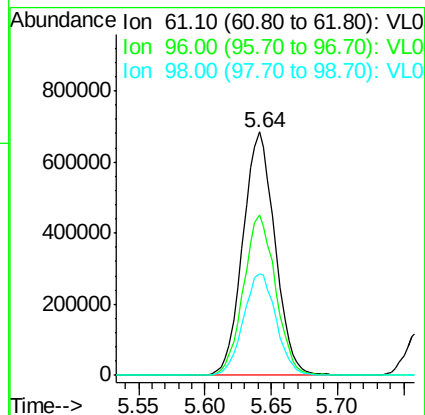
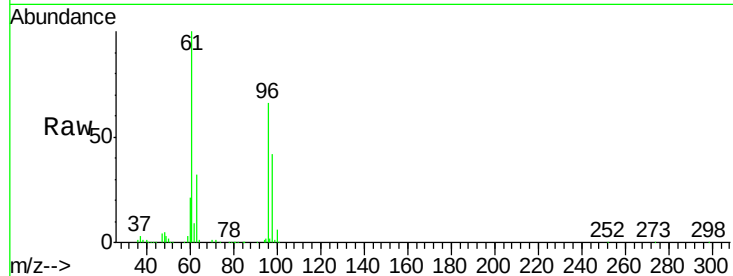
cis-1,2-Dichloroethene
Concen: 10.660 ppbv
RT: 5.64 min Scan# 841
Delta R.T. 0.00 min
Lab File: VL033661.D
Acq: 6 May 2019 15:40

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050619

Tot Ion: 61 Resp: 1152788
Ion Ratio Lower Upper
61 100
96 65.7 53.2 79.8
98 41.7 34.2 51.4

Manual Integrations
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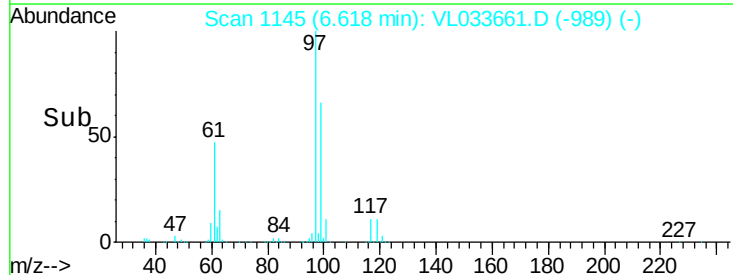
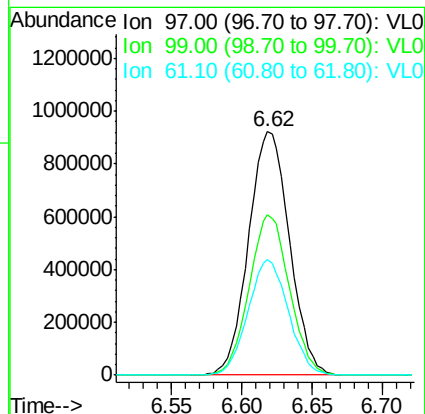
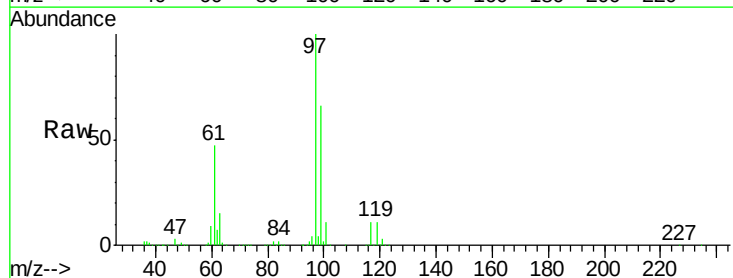
MMDadoda
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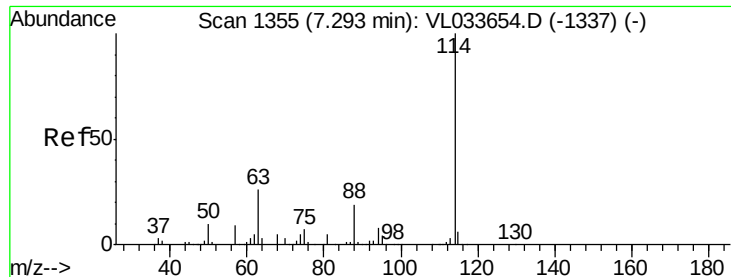


#32

1,1,1-Trichloroethane
Concen: 9.272 ppbv
RT: 6.62 min Scan# 1145
Delta R.T. 0.00 min
Lab File: VL033661.D
Acq: 6 May 2019 15:40

Tgt Ion: 97 Resp: 1871416
Ion Ratio Lower Upper
97 100
99 64.8 51.4 77.2
61 46.9 38.5 57.7





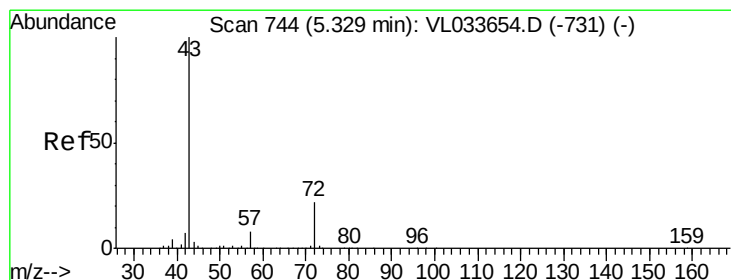
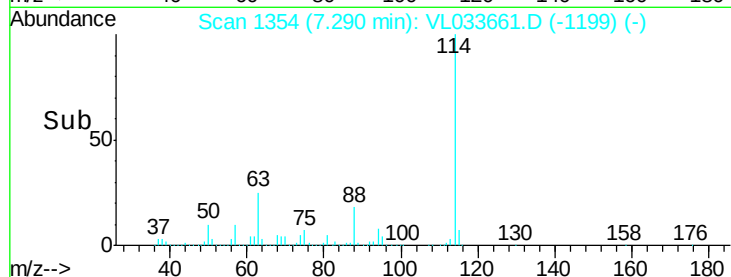
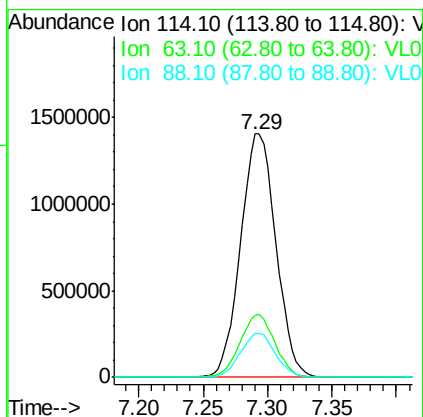
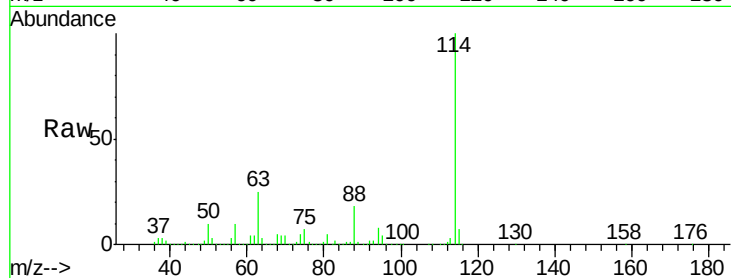
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1354
 Delta R.T. -0.00 min
 Lab File: VL033661.D
 Acq: 6 May 2019 15:40

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL050619

Tot Ion:114 Resp: 2680963
 Ion Ratio Lower Upper
 114 100
 63 25.9 21.3 31.9
 88 17.9 14.4 21.6

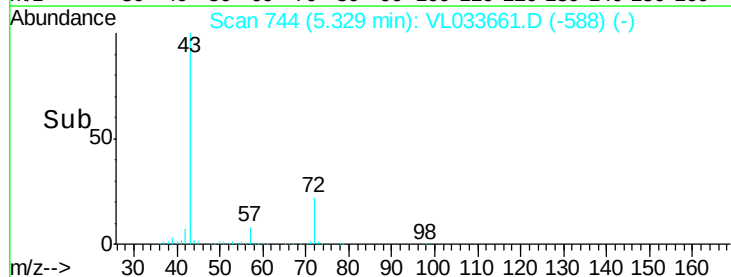
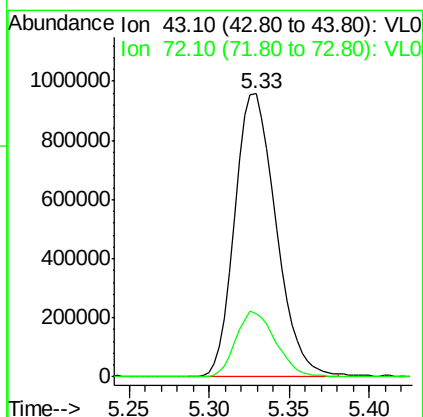
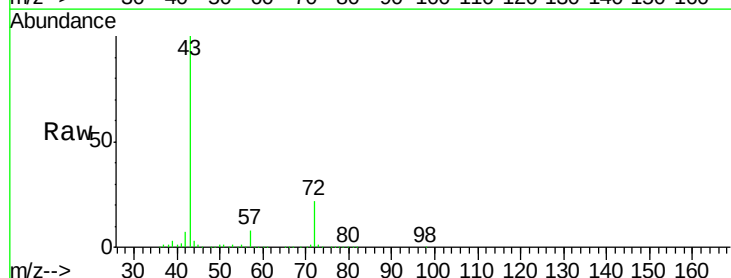
Manual Integrations
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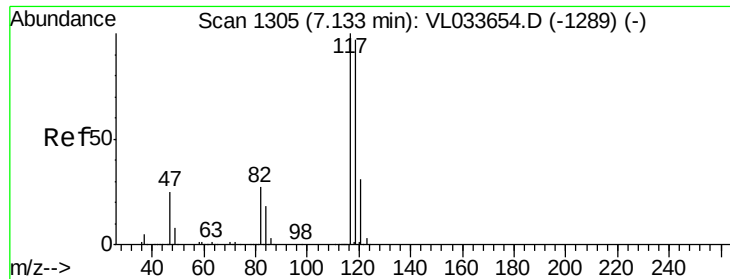
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#34
 2-Butanone
 Concen: 9.794 ppbv
 RT: 5.33 min Scan# 744
 Delta R.T. 0.00 min
 Lab File: VL033661.D
 Acq: 6 May 2019 15:40

Tgt Ion: 43 Resp: 1681387
 Ion Ratio Lower Upper
 43 100
 72 22.5 17.5 26.3





#35

Carbon Tetrachloride

Concen: 9.194 ppbv

RT: 7.13 min Scan# 1305

Delta R.T. 0.00 min

Lab File: VL033661.D

Acq: 6 May 2019 15:40

Instrument :

MSVOA_L

ClientSampled :

ICVVL050619

Tot Ion:117 Resp: 2025727

Ion Ratio Lower Upper

117 100

119 96.9 77.9 116.9

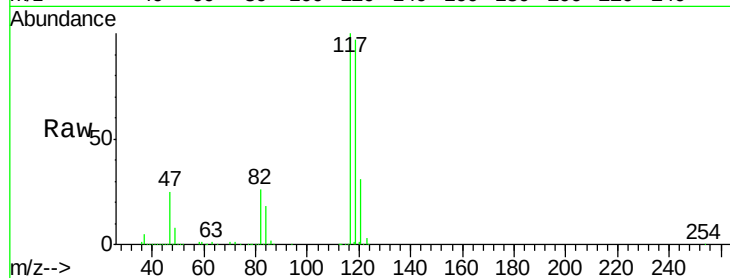
121 31.2 25.0 37.6

Manual Integrations

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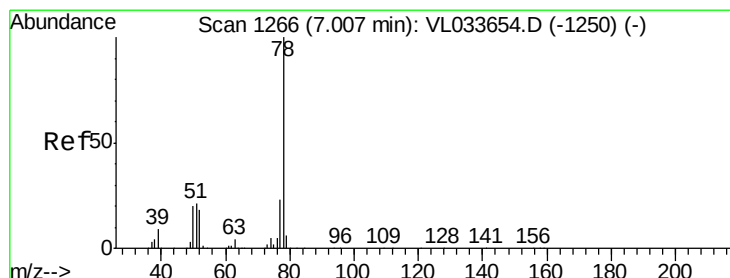
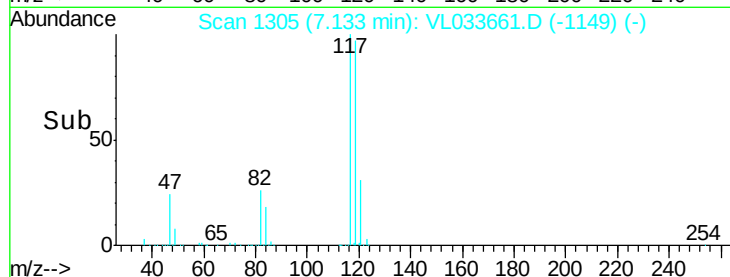
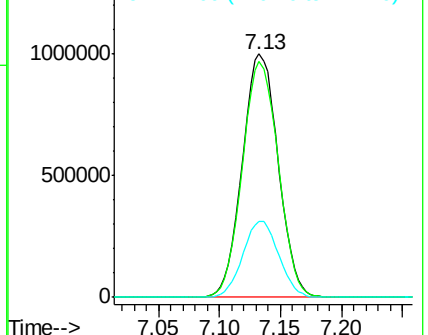
5/8/2019 12:06:36 PM



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.954 ppbv

RT: 7.00 min Scan# 1265

Delta R.T. -0.00 min

Lab File: VL033661.D

Acq: 6 May 2019 15:40

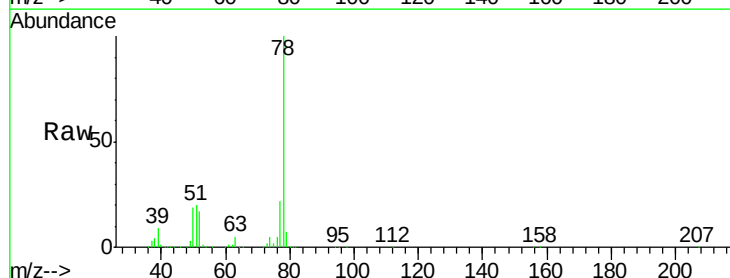
Tgt Ion: 78 Resp: 2392896

Ion Ratio Lower Upper

78 100

77 22.4 18.2 27.2

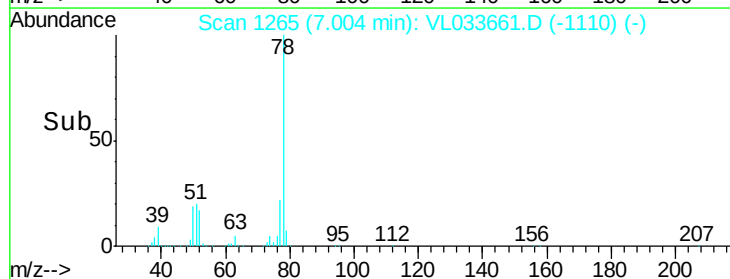
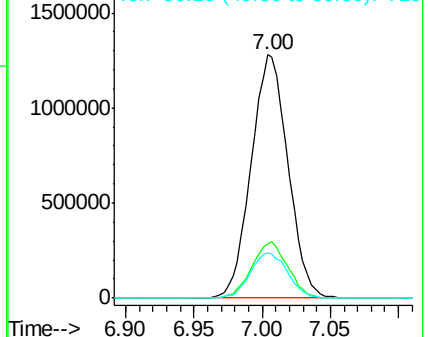
50 18.6 15.8 23.6

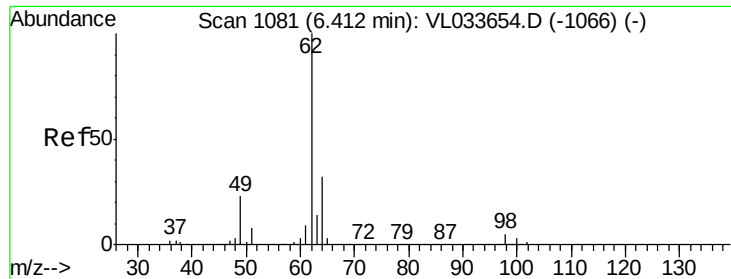


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





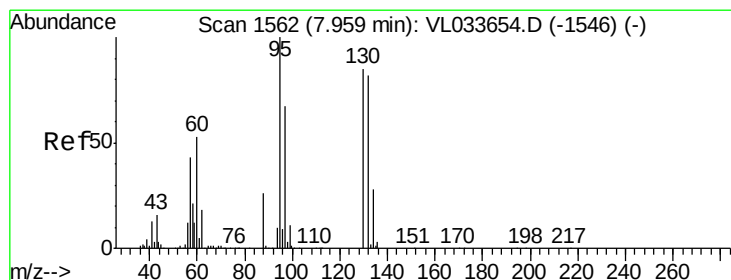
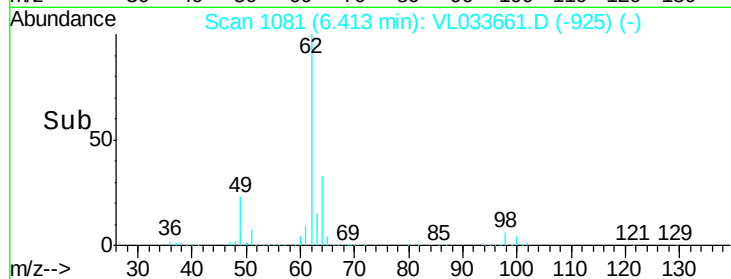
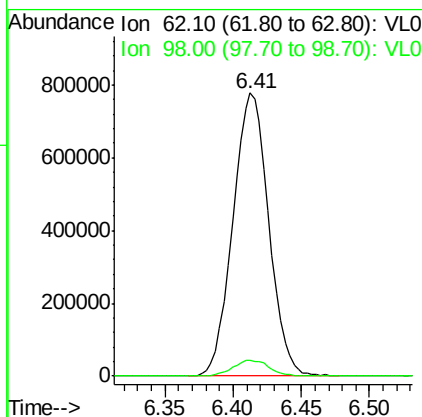
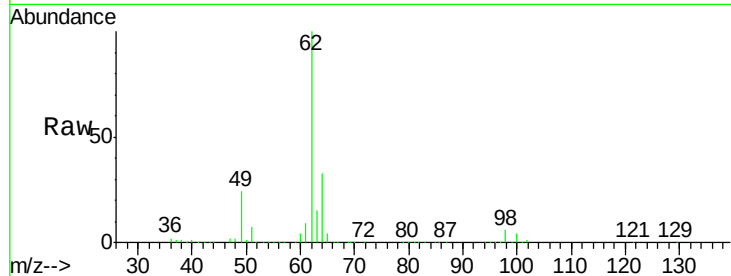
#37
 1,2-Dichloroethane
 Concen: 8.454 ppbv
 RT: 6.41 min Scan# 1081
 Delta R.T. 0.00 min
 Lab File: VL033661.D
 Acq: 6 May 2019 15:40

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL050619

Tot Ion: 62 Resp: 1417985
 Ion Ratio Lower Upper
 62 100
 98 5.8 4.5 6.7

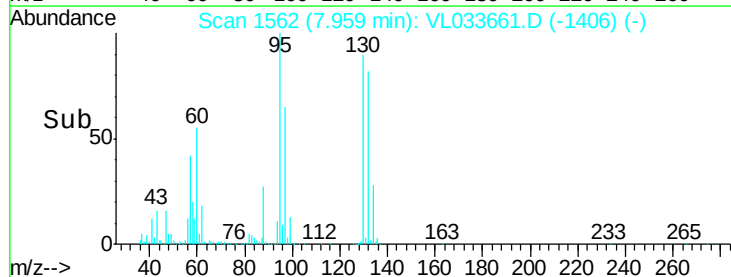
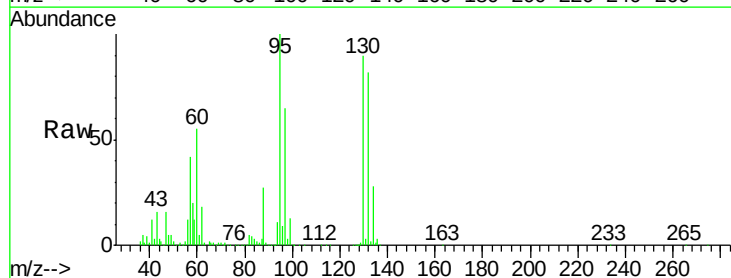
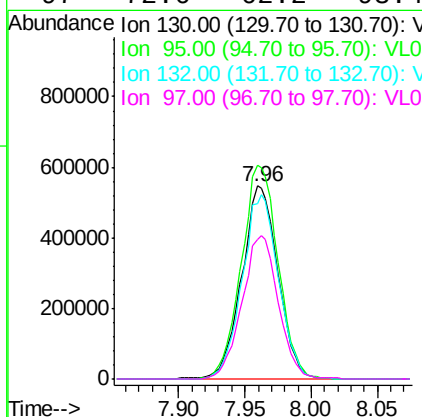
Manual Integrations
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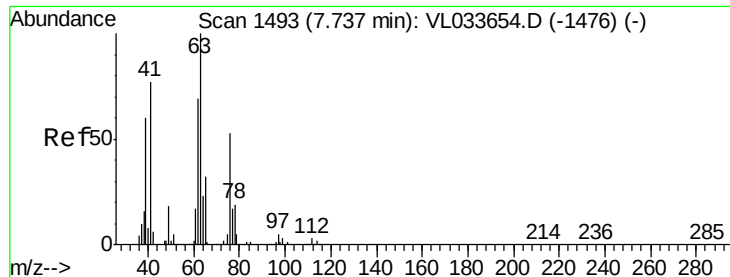
MMDadoda
 5/8/2019 12:06:36 PM



#38
 Trichloroethene
 Concen: 11.675 ppbv
 RT: 7.96 min Scan# 1562
 Delta R.T. 0.00 min
 Lab File: VL033661.D
 Acq: 6 May 2019 15:40

Tgt Ion:130 Resp: 1029541
 Ion Ratio Lower Upper
 130 100
 95 111.0 93.4 140.0
 132 91.0 76.2 114.4
 97 72.6 62.2 93.4





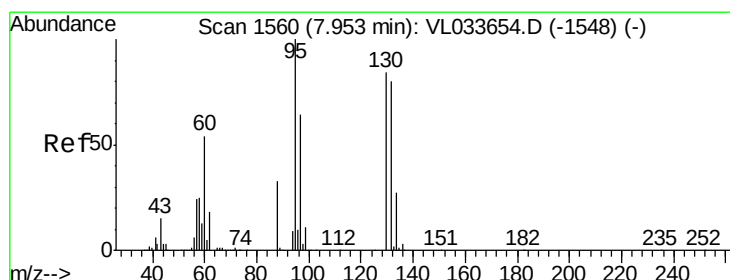
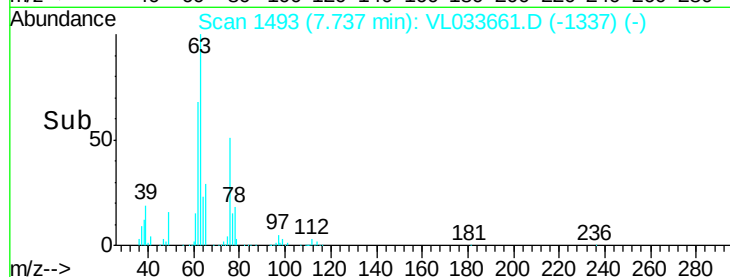
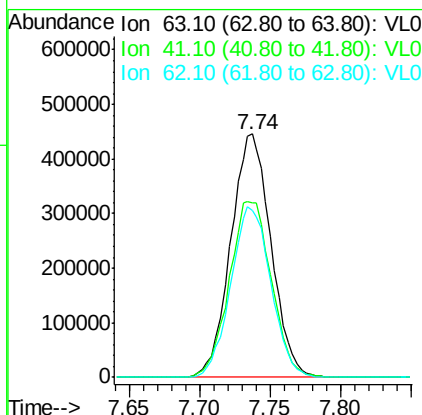
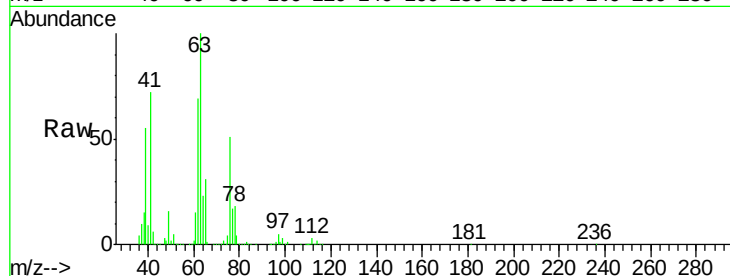
#39
 1,2-Dichloropropane
 Concen: 9.859 ppbv
 RT: 7.74 min Scan# 1493
 Delta R.T. 0.00 min
 Lab File: VL033661.D
 Acq: 6 May 2019 15:40

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL050619

Tot Ion	Ratio	Lower	Upper
63	100		
41	71.7	61.6	92.4
62	68.4	55.0	82.6

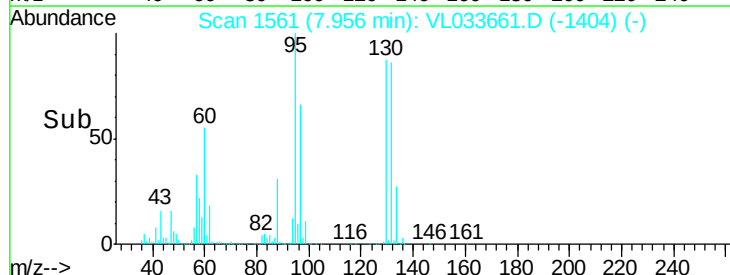
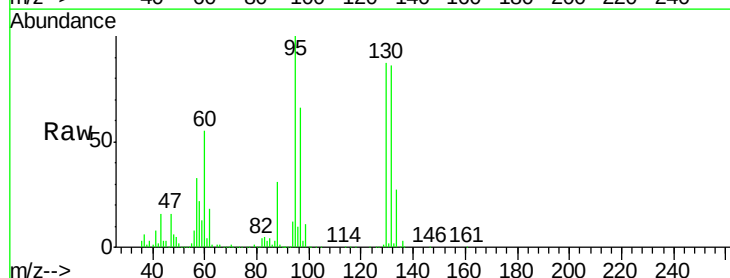
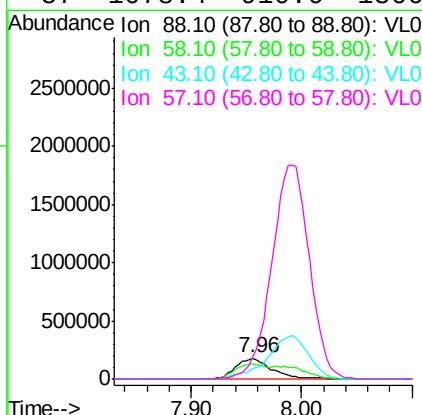
Manual Integrations
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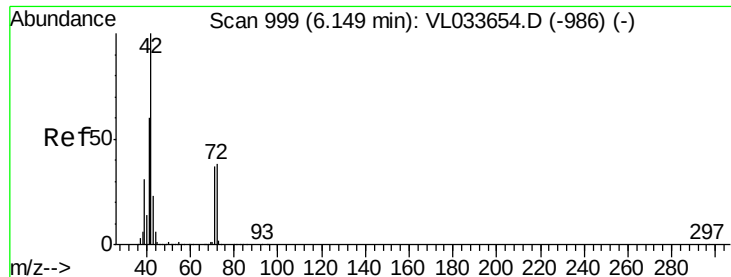
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#40
 1,4-Dioxane
 Concen: 11.299 ppbv
 RT: 7.96 min Scan# 1561
 Delta R.T. 0.00 min
 Lab File: VL033661.D
 Acq: 6 May 2019 15:40

Tgt Ion	Ratio	Lower	Upper
88	100		
58	119.2	102.3	153.5
43	240.3	206.1	309.1
57	1078.4	910.6	1366.0





#41

Tetrahydrofuran

Concen: 10.518 ppbv

RT: 6.15 min Scan# 998

Delta R.T. -0.00 min

Lab File: VL033661.D

Acq: 6 May 2019 15:40

Instrument :

MSVOA_L

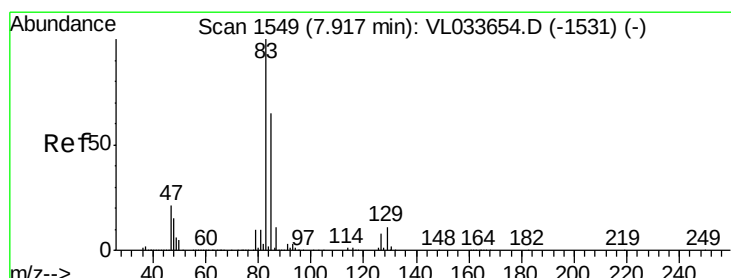
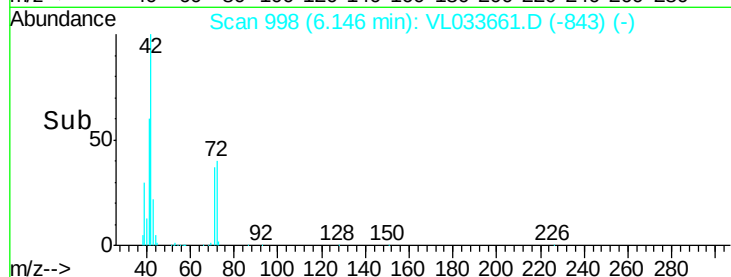
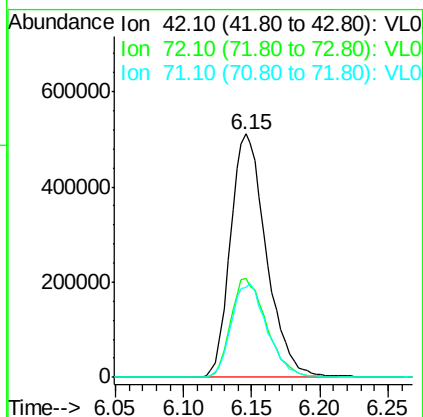
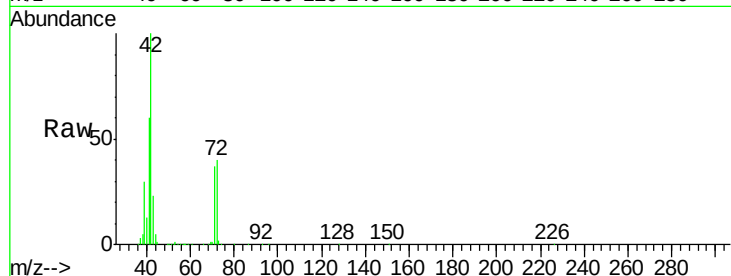
ClientSampleId :

ICVVL050619

Tot Ion:	42	Resp:	933152
Ion	Ratio	Lower	Upper
42	100		
72	40.5	31.6	47.4
71	38.9	30.6	46.0

Manual Integrations
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#42

Bromodichloromethane

Concen: 9.671 ppbv

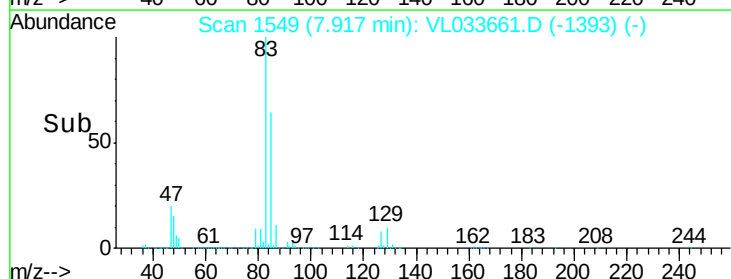
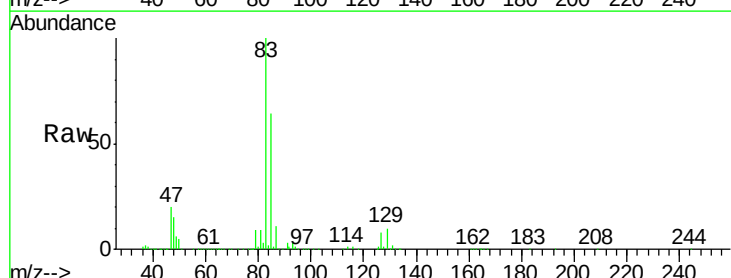
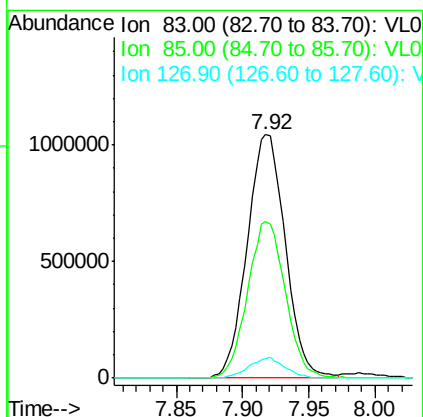
RT: 7.92 min Scan# 1549

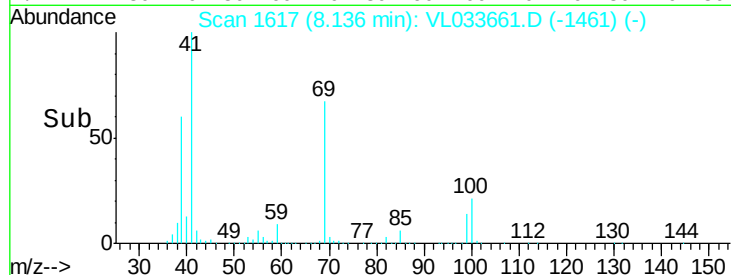
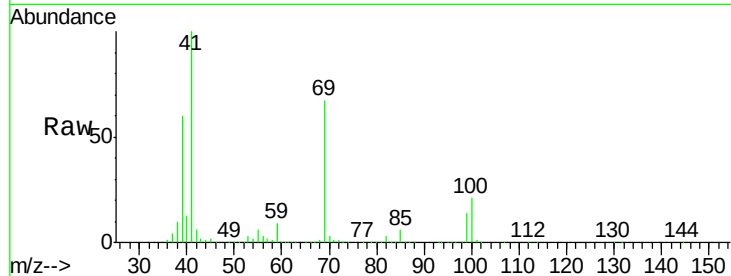
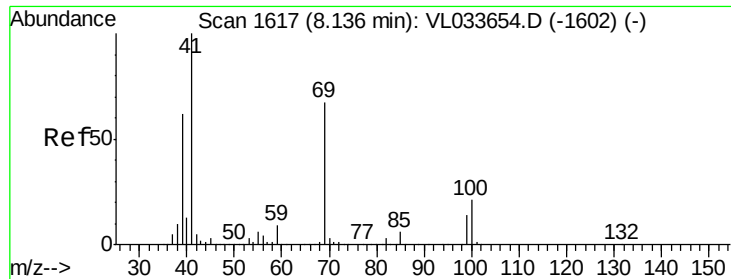
Delta R.T. 0.00 min

Lab File: VL033661.D

Acq: 6 May 2019 15:40

Tgt Ion:	83	Resp:	2094564
Ion	Ratio	Lower	Upper
83	100		
85	64.4	52.4	78.6
127	7.9	6.6	9.8





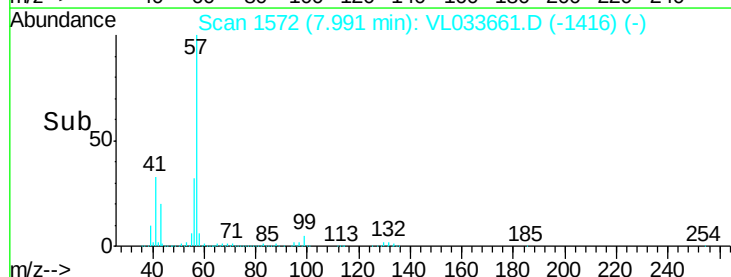
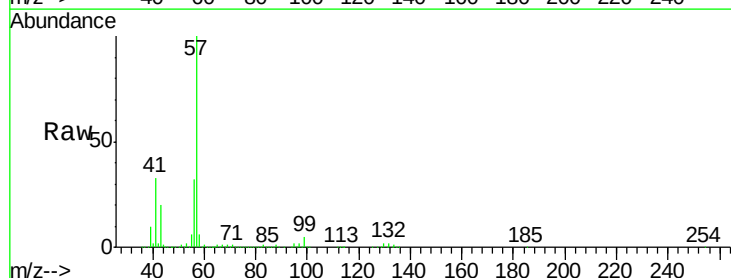
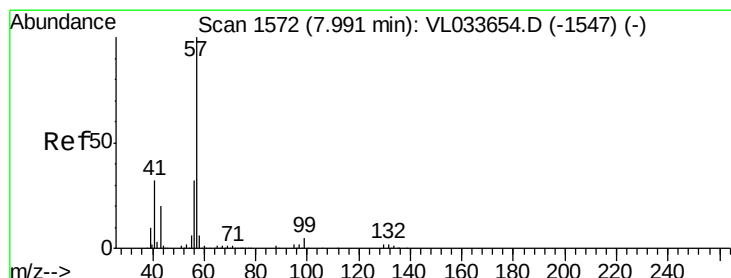
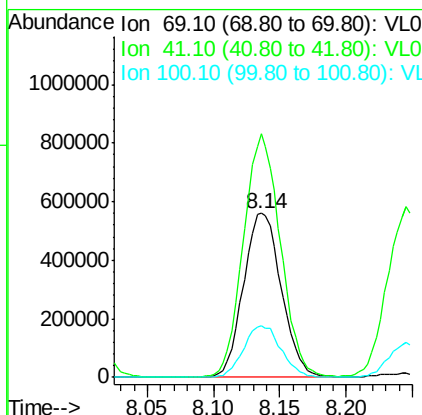
#43
Methyl Methacrylate
Concen: 12.317 ppbv
RT: 8.14 min Scan# 1617
Delta R.T. 0.00 min
Lab File: VL033661.D
Acq: 6 May 2019 15:40

Tot Ion: 69 Resp: 1113787
Ion Ratio Lower Upper
69 100
41 144.4 116.6 175.0
100 31.4 24.6 37.0

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050619

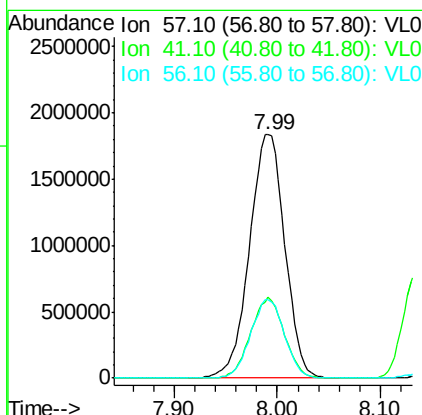
Manual Integrations
APPROVED

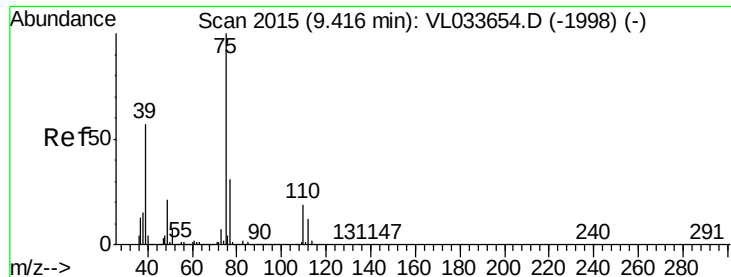
MMDadoda
5/8/2019 12:06:36 PM



#44
2,2,4-Trimethylpentane
Concen: 10.604 ppbv
RT: 7.99 min Scan# 1572
Delta R.T. 0.00 min
Lab File: VL033661.D
Acq: 6 May 2019 15:40

Tgt Ion: 57 Resp: 4358761
Ion Ratio Lower Upper
57 100
41 31.6 25.7 38.5
56 31.1 25.0 37.6





#45

t-1,3-Dichloropropene

Concen: 12.360 ppbv

RT: 9.42 min Scan# 2015

Delta R.T. 0.00 min

Lab File: VL033661.D

Acq: 6 May 2019 15:40

Tot Ion: 75 Resp: 1371772

Ion Ratio Lower Upper

75 100

77 31.7 24.7 37.1

Instrument :

MSVOA_L

ClientSampleId :

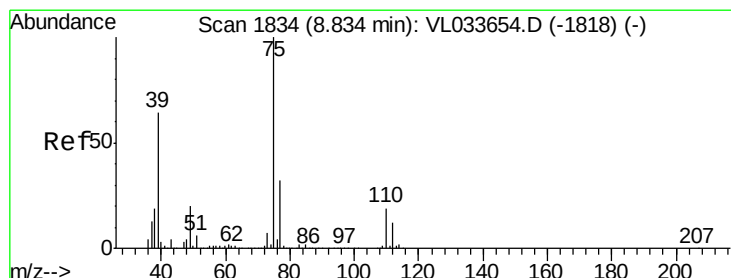
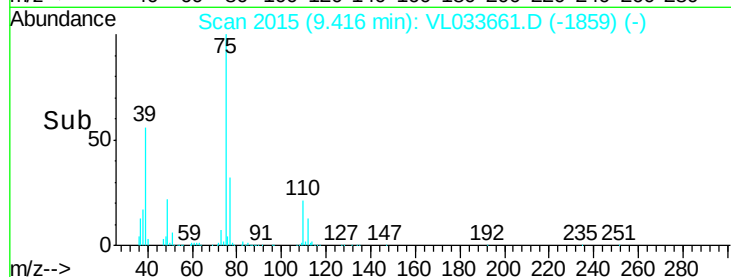
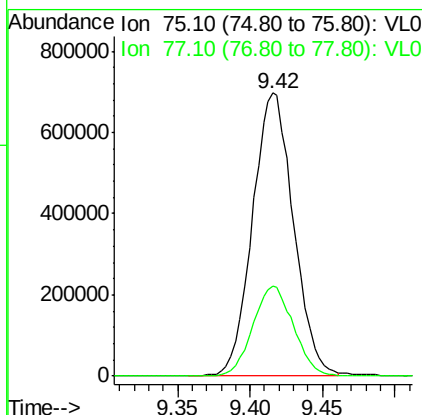
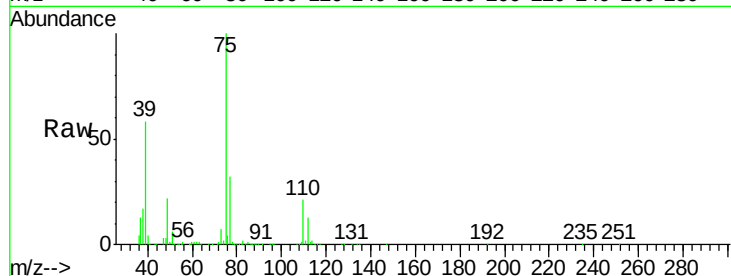
ICVVL050619

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#46

cis-1,3-Dichloropropene

Concen: 11.923 ppbv

RT: 8.84 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VL033661.D

Acq: 6 May 2019 15:40

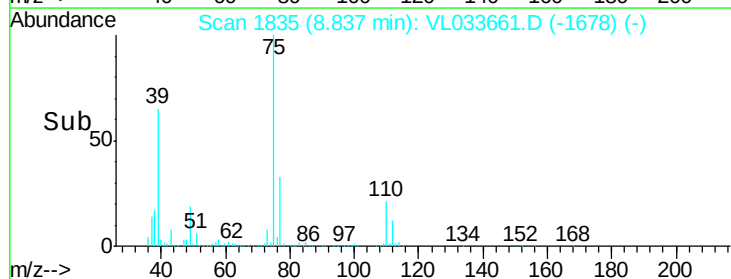
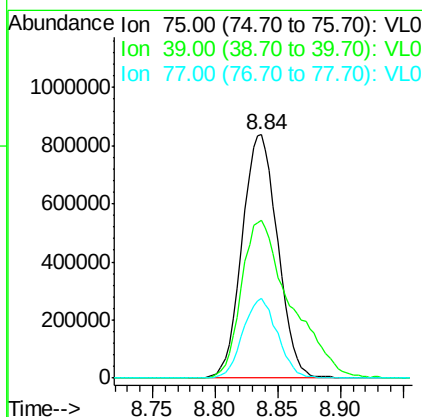
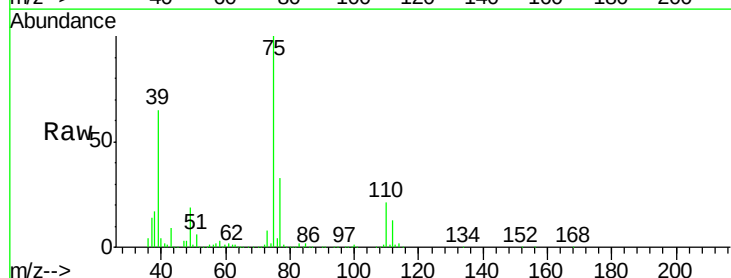
Tgt Ion: 75 Resp: 1651496

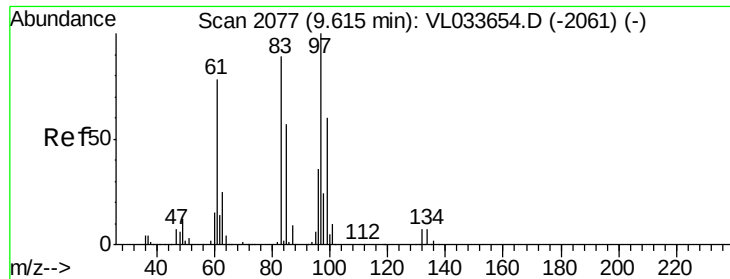
Ion Ratio Lower Upper

75 100

39 64.6 51.5 77.3

77 32.6 25.4 38.0





#47
 1,1,2-Trichloroethane
 Concen: 10.060 ppbv
 RT: 9.61 min Scan# 2077
 Delta R.T. 0.00 min
 Lab File: VL033661.D
 Acq: 6 May 2019 15:40

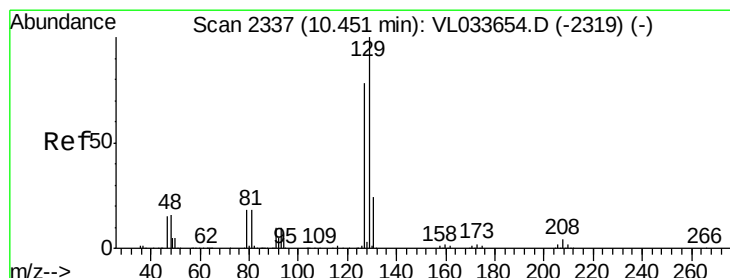
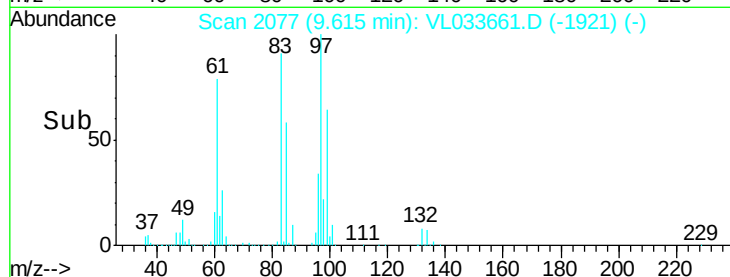
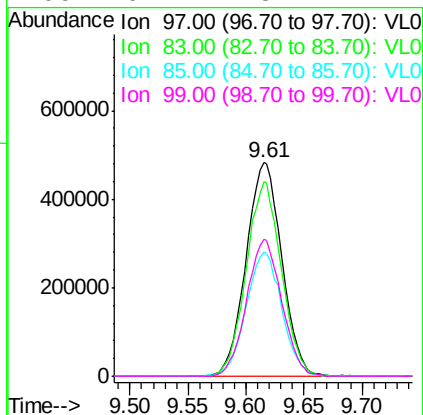
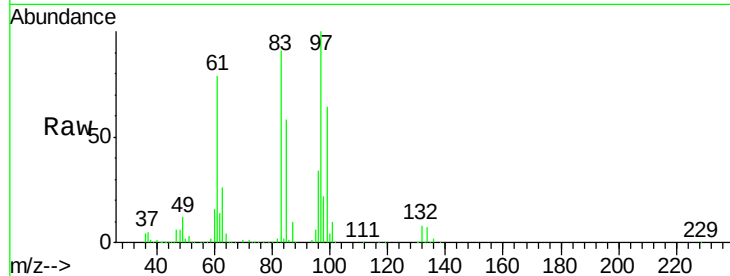
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL050619

Tot Ion: 97 Resp: 1035053

Ion	Ratio	Lower	Upper
97	100		
83	90.8	70.9	106.3
85	58.4	45.8	68.6
99	64.2	48.2	72.4

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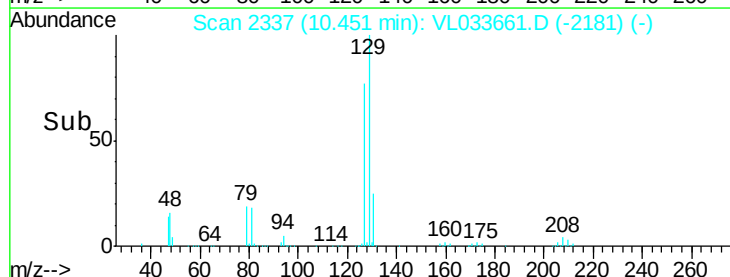
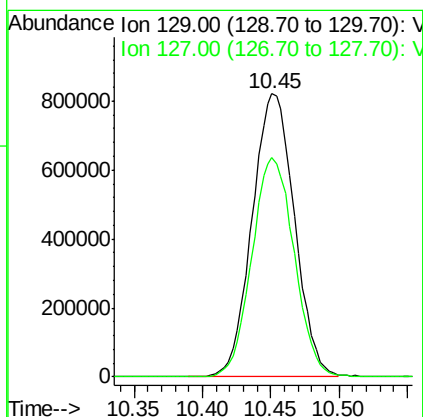
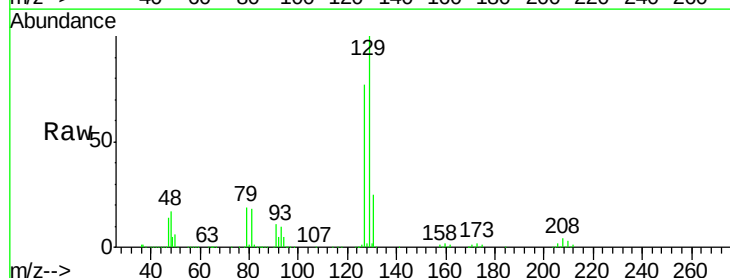
MMDadoda
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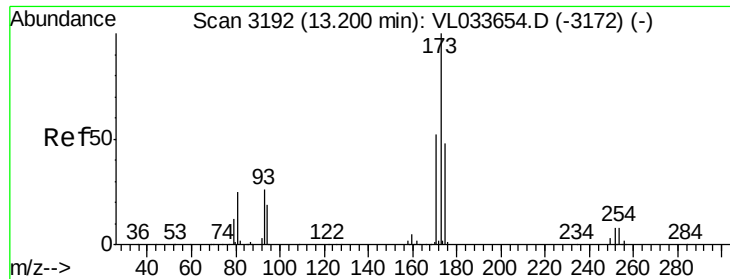


#48
 Dibromochloromethane
 Concen: 10.144 ppbv
 RT: 10.45 min Scan# 2337
 Delta R.T. 0.00 min
 Lab File: VL033661.D
 Acq: 6 May 2019 15:40

Tgt Ion: 129 Resp: 1769325

Ion	Ratio	Lower	Upper
129	100		
127	77.6	39.1	117.2





#49

Bromoform

Concen: 11.427 ppbv

RT: 13.20 min Scan# 3193

Delta R.T. 0.00 min

Lab File: VL033661.D

Acq: 6 May 2019 15:40

Instrument :

MSVOA_L

ClientSampleId :

ICVVL050619

Tot Ion:173 Resp: 1731325

Ion Ratio Lower Upper

173 100

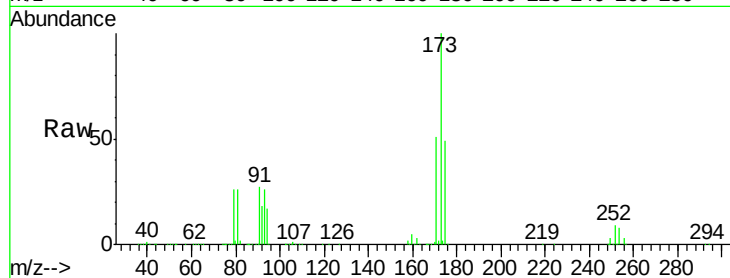
175 49.2 39.3 58.9

171 52.1 41.5 62.3

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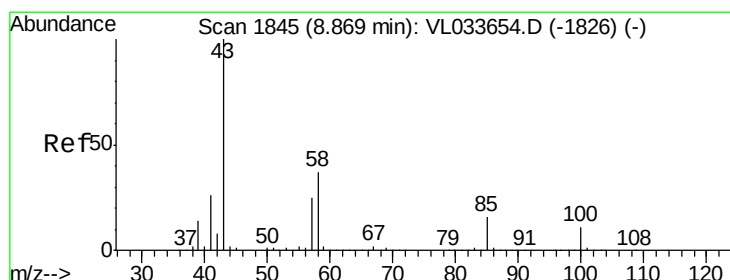
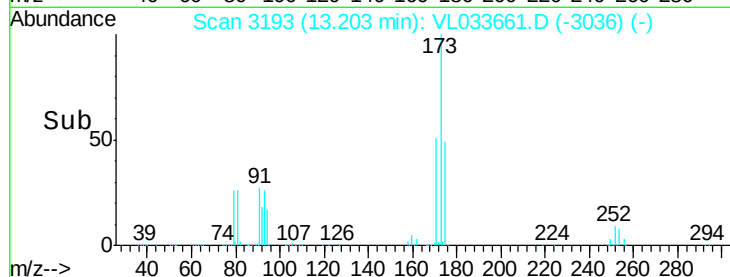
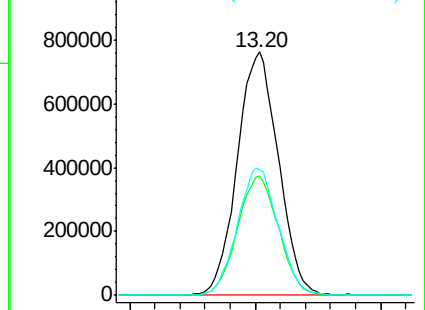
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Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 10.642 ppbv

RT: 8.87 min Scan# 1845

Delta R.T. 0.00 min

Lab File: VL033661.D

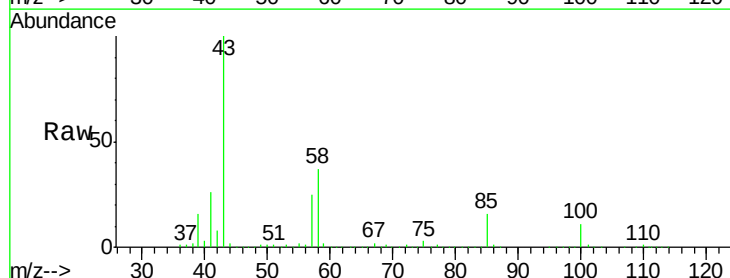
Acq: 6 May 2019 15:40

Tgt Ion: 43 Resp: 2766529

Ion Ratio Lower Upper

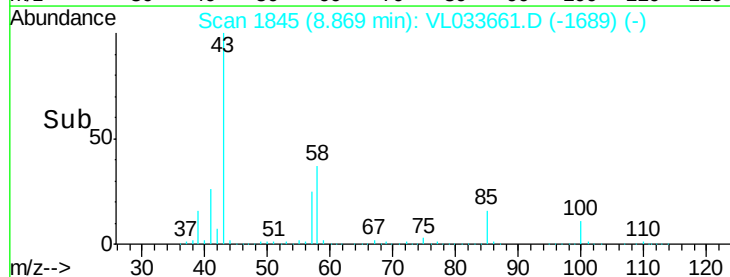
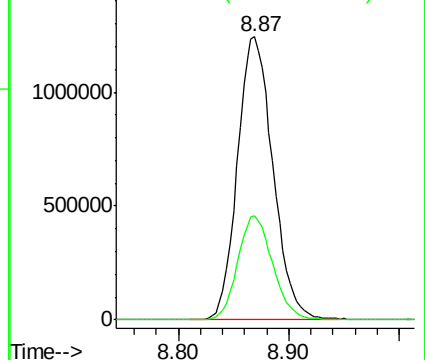
43 100

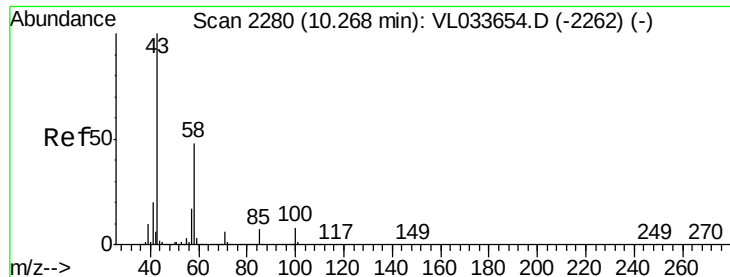
58 36.3 28.8 43.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 11.053 ppbv

RT: 10.27 min Scan# 2280

Delta R.T. 0.00 min

Lab File: VL033661.D

Acq: 6 May 2019 15:40

Instrument :

MSVOA_L

ClientSampleId :

ICVVL050619

Tot Ion: 43 Resp: 2225963

Ion Ratio Lower Upper

43 100

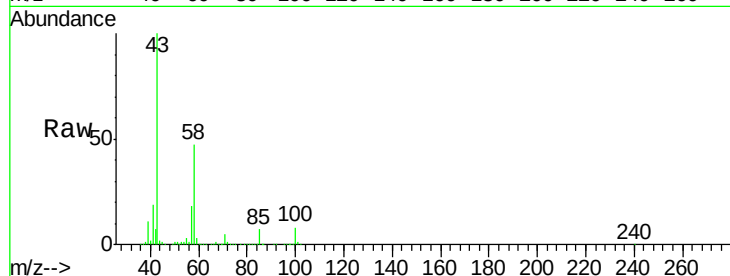
58 48.6 38.2 57.4

98 0.3 0.2 0.4

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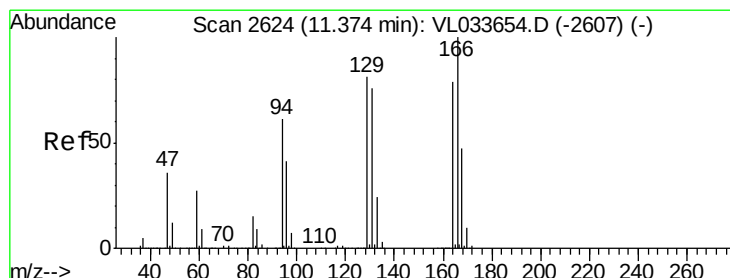
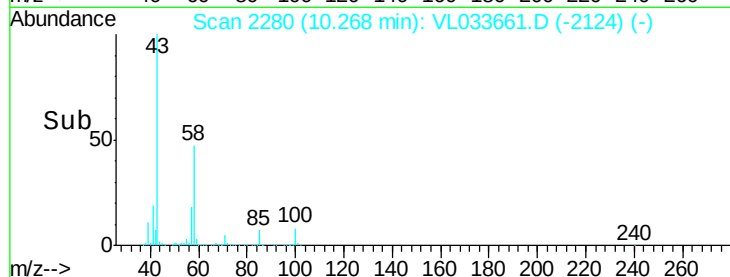
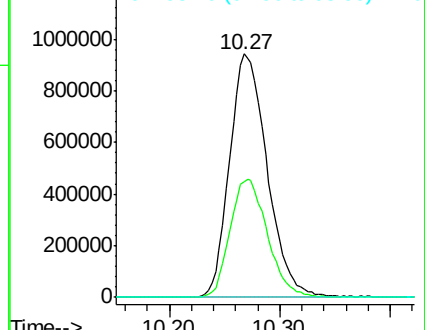


Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 10.372 ppbv

RT: 11.37 min Scan# 2623

Delta R.T. -0.00 min

Lab File: VL033661.D

Acq: 6 May 2019 15:40

Tgt Ion: 164 Resp: 883399

Ion Ratio Lower Upper

164 100

166 125.8 100.6 151.0

129 102.9 81.0 121.6

131 98.5 76.4 114.6

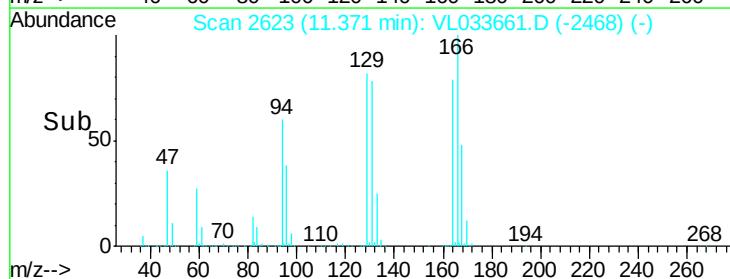
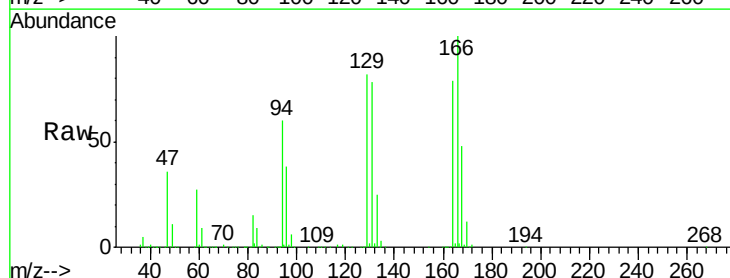
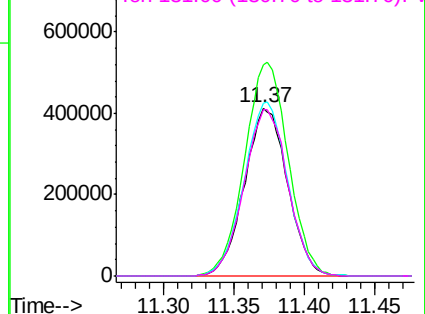
Abundance

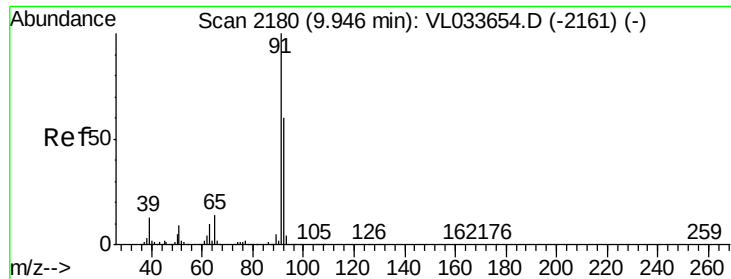
Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 11.182 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. 0.00 min

Lab File: VL033661.D

Acq: 6 May 2019 15:40

Instrument :

MSVOA_L

ClientSampleId :

ICVVL050619

Tot Ion: 91 Resp: 2904326

Ion Ratio Lower Upper

91 100

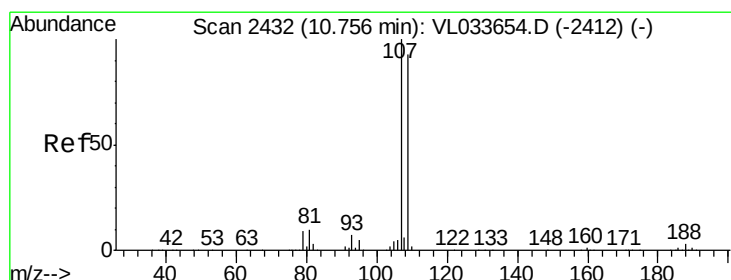
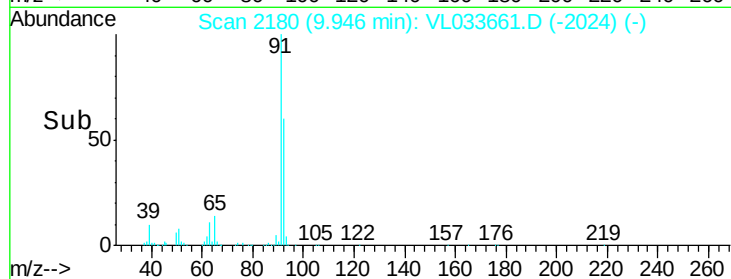
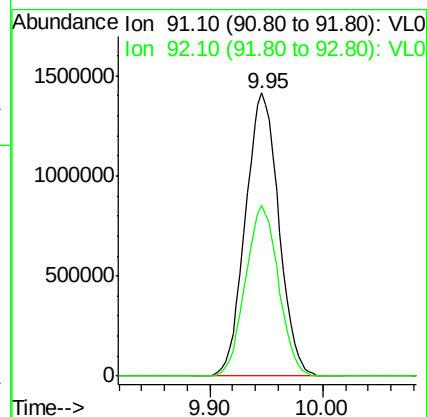
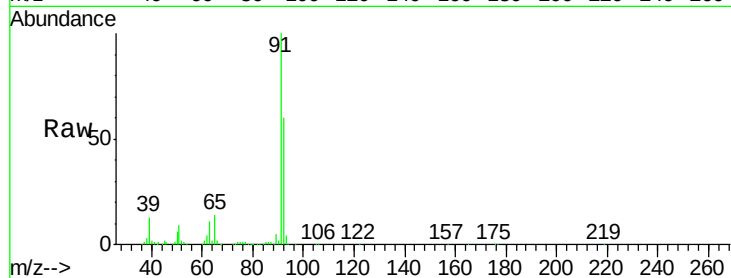
92 59.8 47.7 71.5

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#54

1,2-Dibromoethane

Concen: 10.056 ppbv

RT: 10.76 min Scan# 2433

Delta R.T. 0.00 min

Lab File: VL033661.D

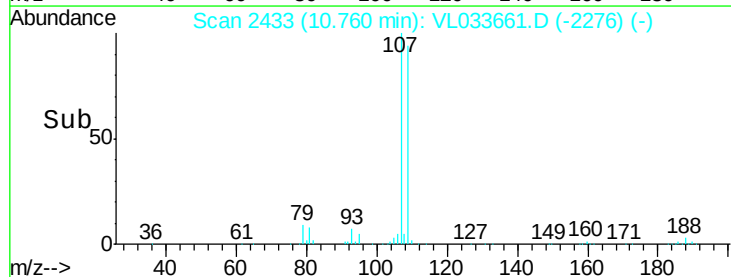
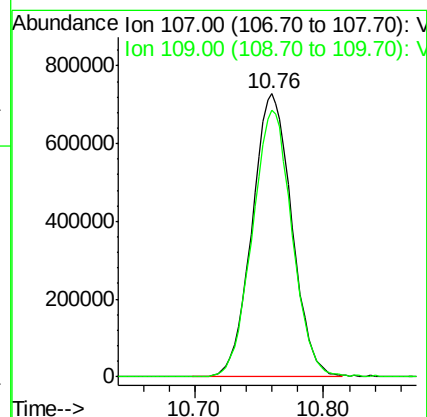
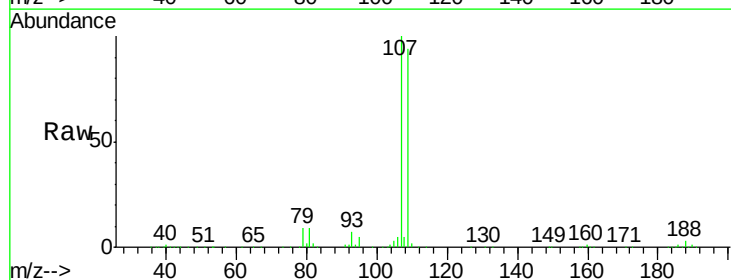
Acq: 6 May 2019 15:40

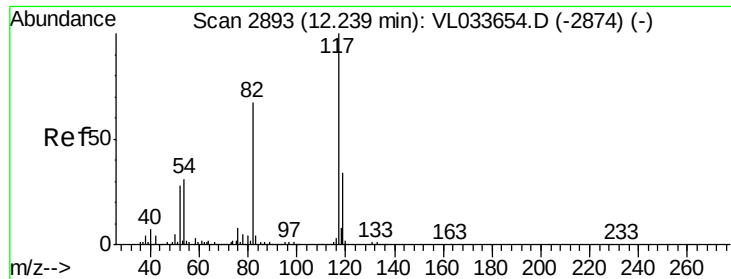
Tgt Ion: 107 Resp: 1558586

Ion Ratio Lower Upper

107 100

109 94.4 74.6 111.8





#55

Chlorobenzene-d5

Concen: 10.000 ppbv m

RT: 12.24 min Scan# 2893

Delta R.T. 0.00 min

Lab File: VL033661.D

Acq: 6 May 2019 15:40

Instrument :

MSVOA_L

ClientSampleId :

ICVVL050619

Tot Ion:117 Resp: 2847512

Ion Ratio Lower Upper

117 100

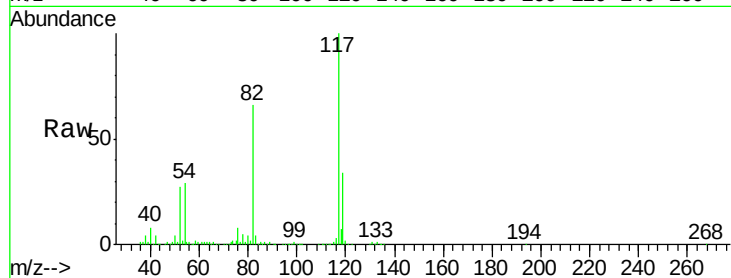
82 62.6 49.7 74.5

119 32.6 24.8 37.2

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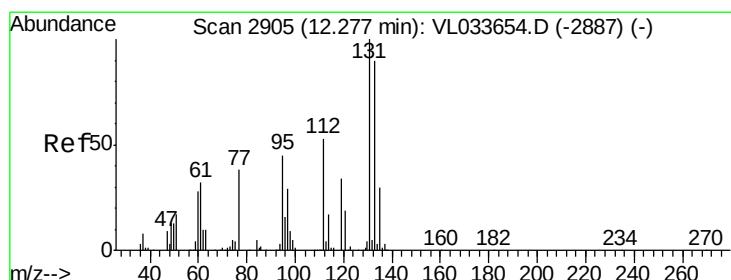
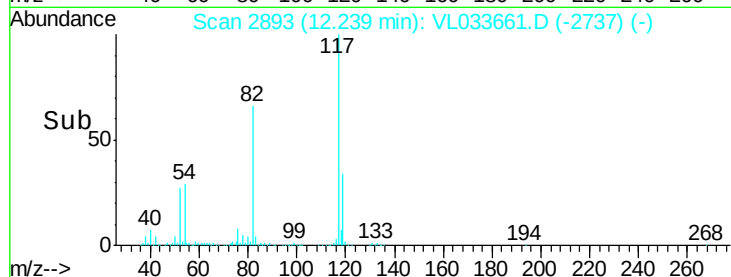
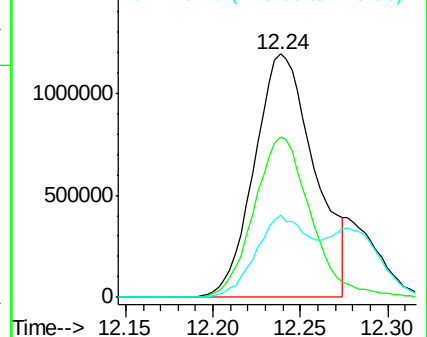
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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 9.045 ppbv

RT: 12.28 min Scan# 2905

Delta R.T. 0.00 min

Lab File: VL033661.D

Acq: 6 May 2019 15:40

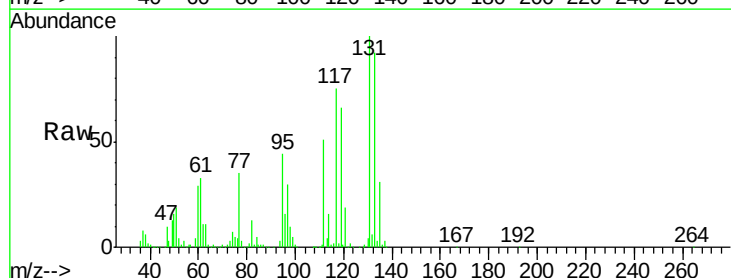
Tgt Ion:131 Resp: 1188075

Ion Ratio Lower Upper

131 100

133 94.5 76.0 114.0

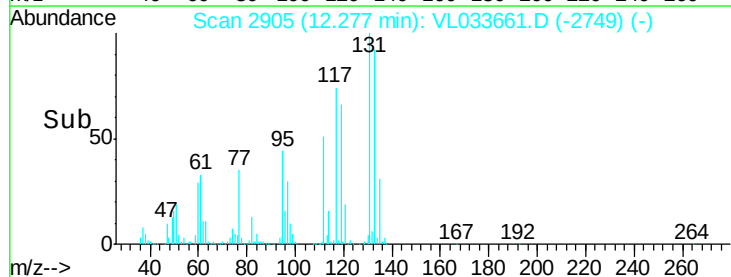
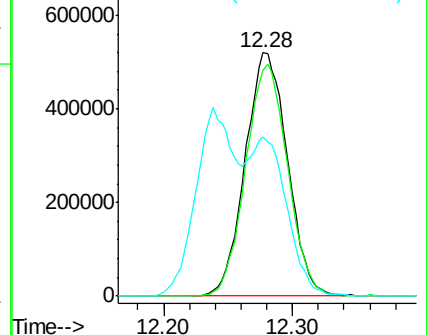
119 63.9 45.4 68.2

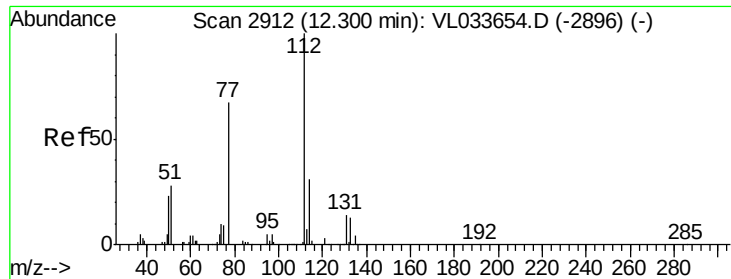


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 9.066 ppbv

RT: 12.30 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VL033661.D

Acq: 6 May 2019 15:40

Instrument :

MSVOA_L

ClientSampleId :

ICVVL050619

Tot Ion:112 Resp: 2119680

Ion Ratio Lower Upper

112 100

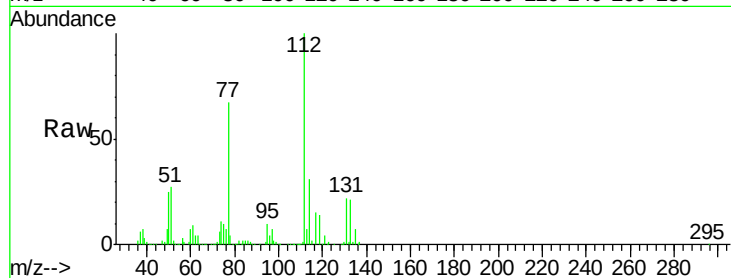
77 67.0 54.4 81.6

114 31.0 28.2 34.4

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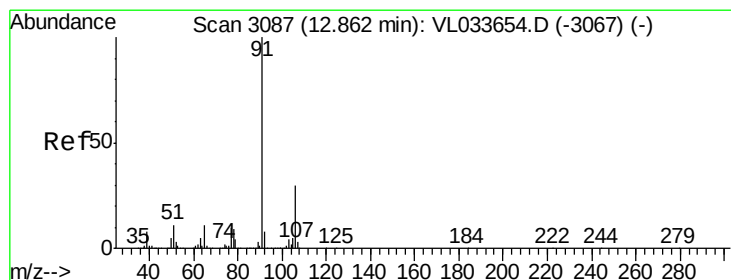
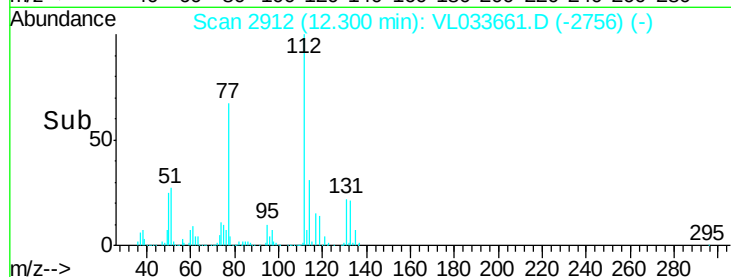
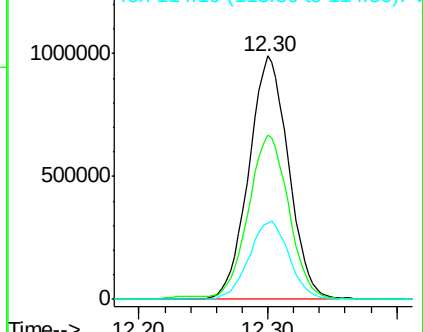
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 11.452 ppbv

RT: 12.87 min Scan# 3088

Delta R.T. 0.00 min

Lab File: VL033661.D

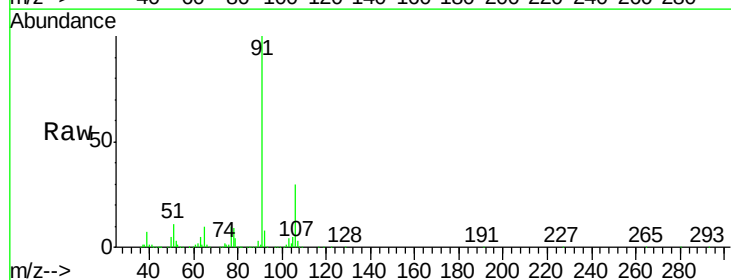
Acq: 6 May 2019 15:40

Tgt Ion: 91 Resp: 4252499

Ion Ratio Lower Upper

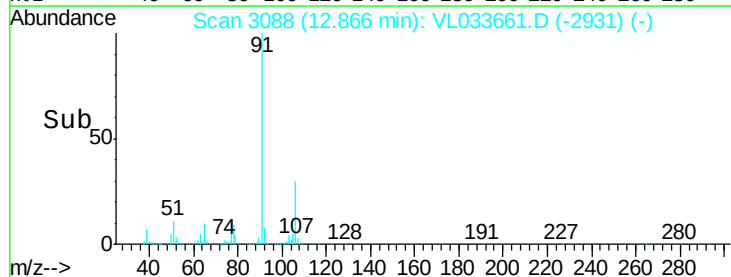
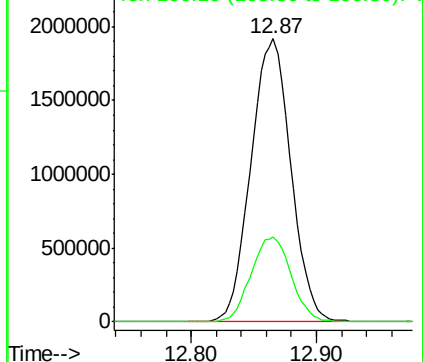
91 100

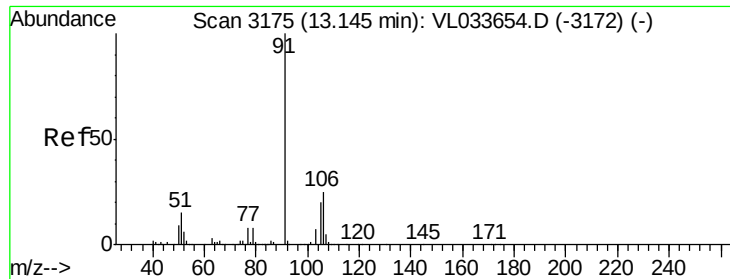
106 30.0 23.7 35.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





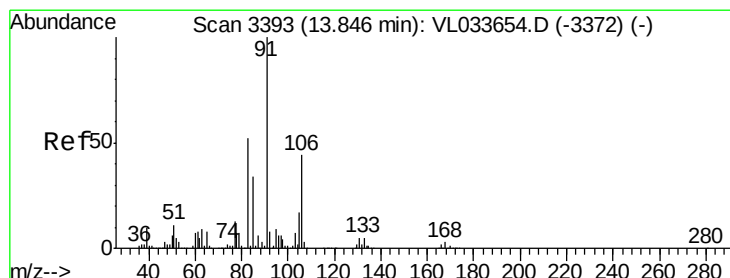
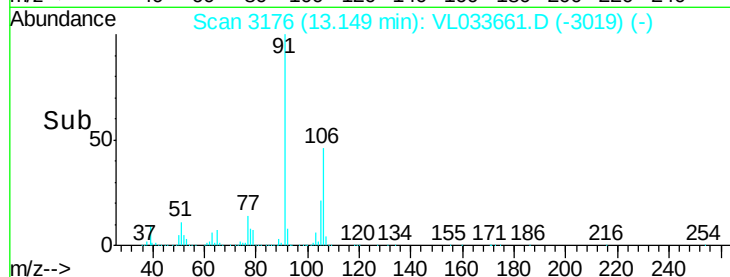
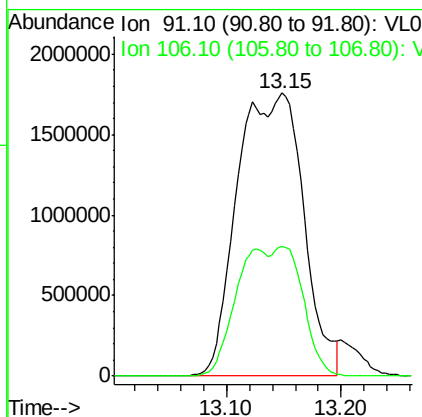
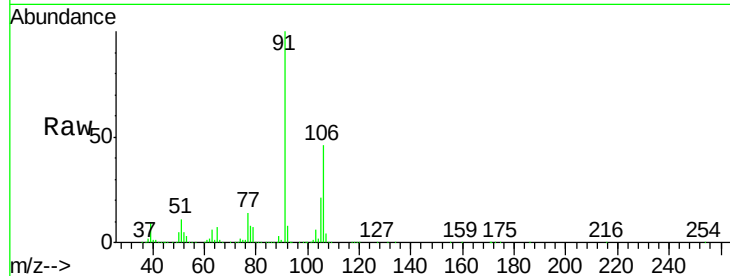
#59
m/p-Xylene
Concen: 21.545 ppbv m
RT: 13.15 min Scan# 3176
Delta R.T. 0.00 min
Lab File: VL033661.D
Acq: 6 May 2019 15:40

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050619

Tot Ion: 91 Resp: 7046679
Ion Ratio Lower Upper
91 100
106 45.2 36.2 54.2

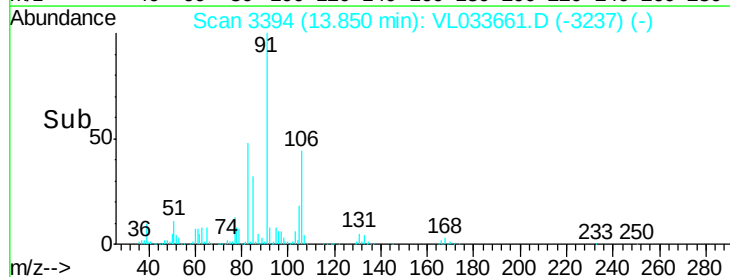
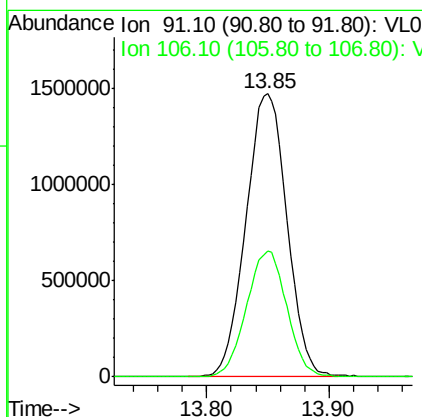
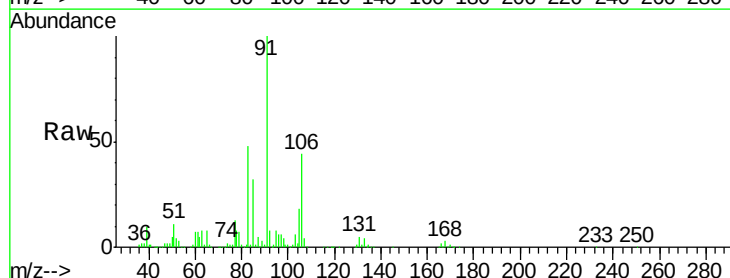
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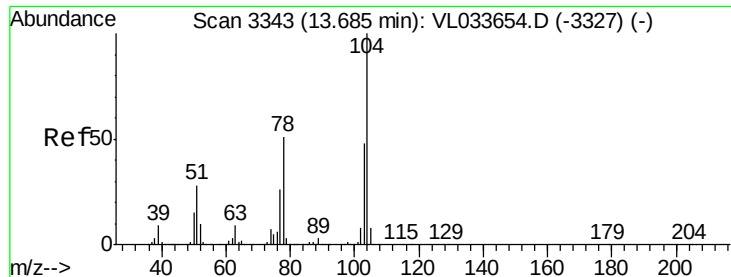
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#60
o-Xylene
Concen: 10.328 ppbv
RT: 13.85 min Scan# 3394
Delta R.T. 0.00 min
Lab File: VL033661.D
Acq: 6 May 2019 15:40

Tgt Ion: 91 Resp: 3418536
Ion Ratio Lower Upper
91 100
106 43.9 21.7 65.1





#61

Stvrene

Concen: 12.036 ppbv

RT: 13.68 min Scan# 3342

Delta R.T. -0.00 min

Lab File: VL033661.D

Acq: 6 May 2019 15:40

Instrument :

MSVOA_L

ClientSampleId :

ICVVL050619

Tot Ion:104 Resp: 2652926

Ion Ratio Lower Upper

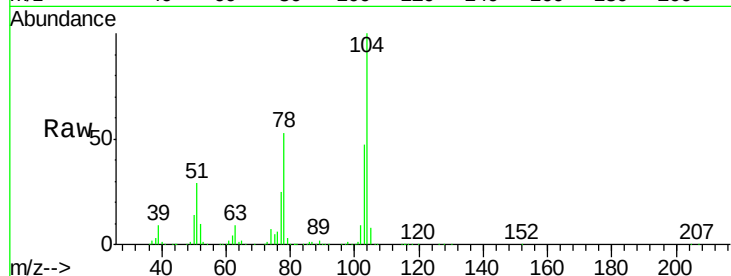
104 100

78 53.3 43.0 64.6

103 47.5 38.1 57.1

Manual Integrations
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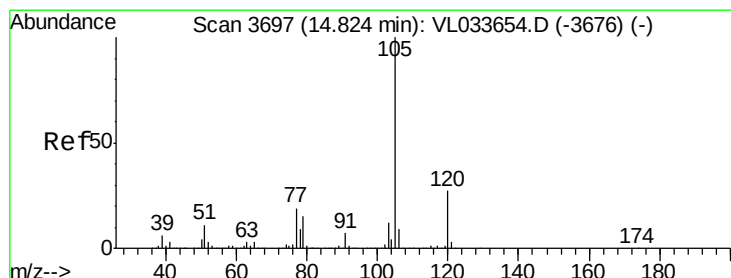
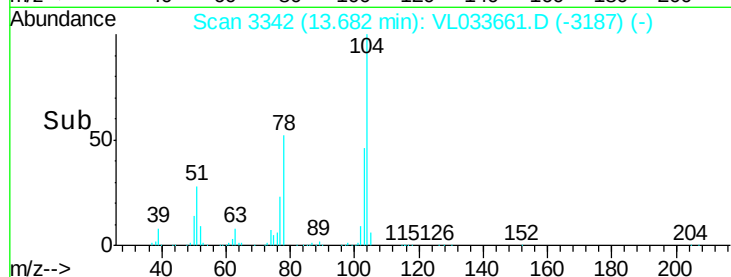
Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V

13.68

Time-->



#62

Isopropylbenzene

Concen: 10.145 ppbv

RT: 14.82 min Scan# 3697

Delta R.T. 0.00 min

Lab File: VL033661.D

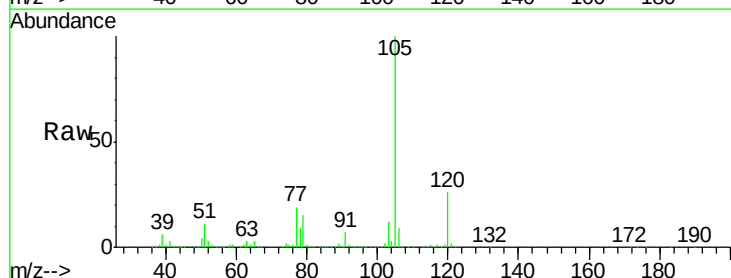
Acq: 6 May 2019 15:40

Tgt Ion:105 Resp: 4585022

Ion Ratio Lower Upper

105 100

120 25.6 20.5 30.7

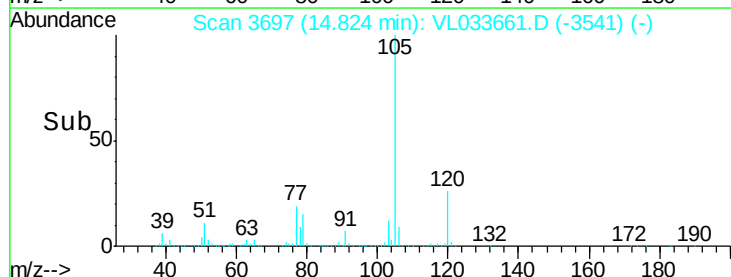


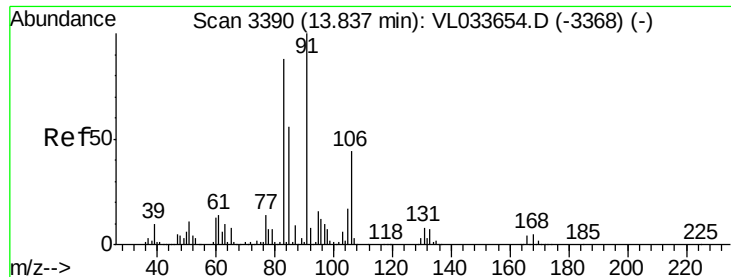
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

14.82

Time-->





#63

1,1,2,2-Tetrachloroethane

Concen: 9.599 ppbv

RT: 13.84 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VL033661.D

Acq: 6 May 2019 15:40

Instrument :

MSVOA_L

ClientSampleId :

ICVVL050619

Tot Ion: 83 Resp: 2312381

Ion Ratio Lower Upper

83 100

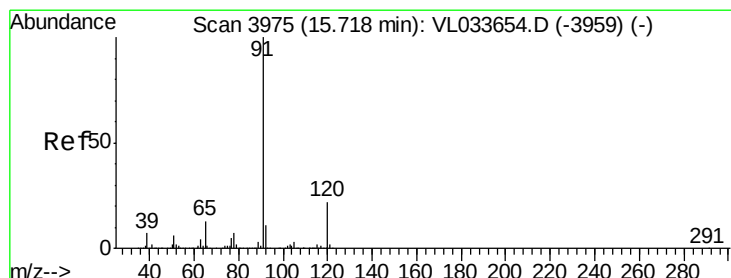
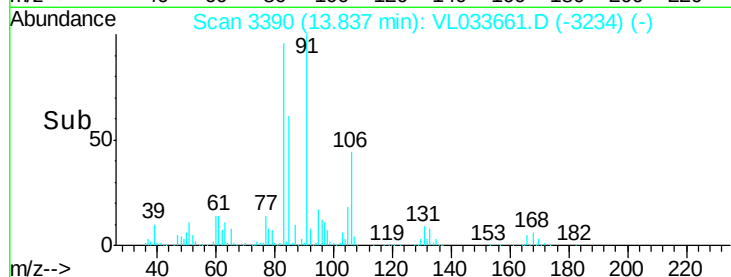
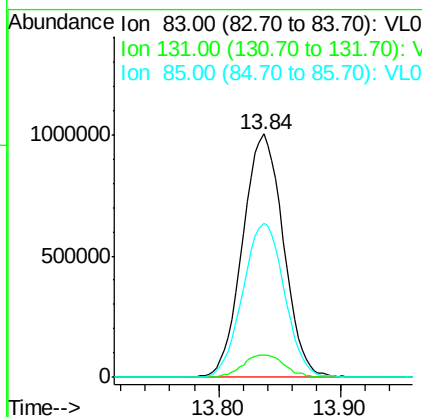
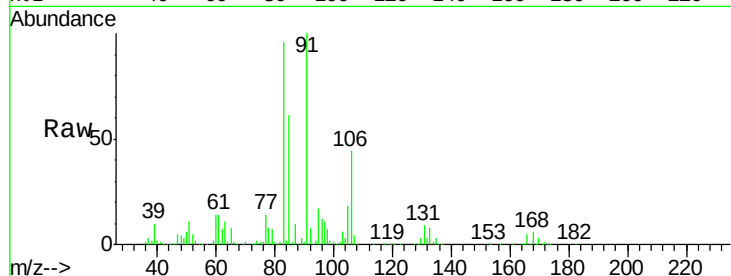
131 9.5 4.8 14.3

85 64.9 32.5 97.4

Manual Integrations
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#64

n-propylbenzene

Concen: 10.127 ppbv

RT: 15.72 min Scan# 3977

Delta R.T. 0.01 min

Lab File: VL033661.D

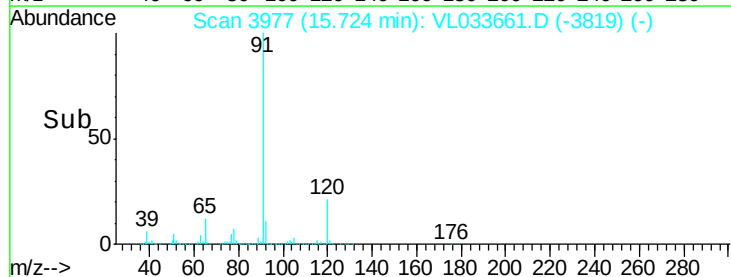
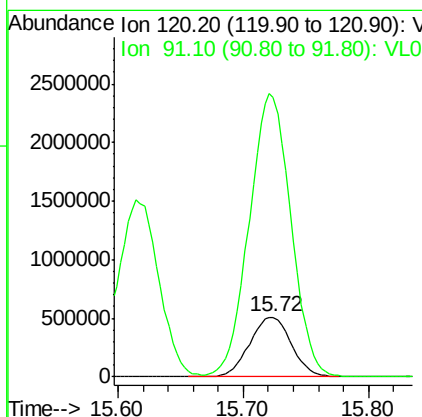
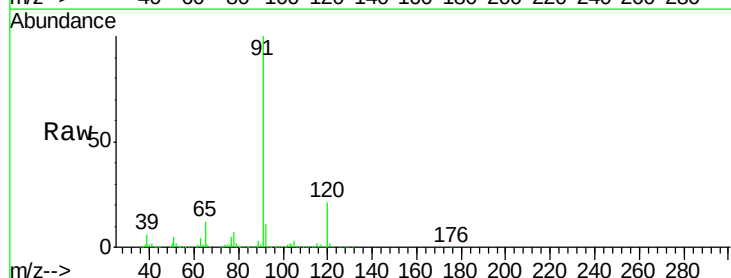
Acq: 6 May 2019 15:40

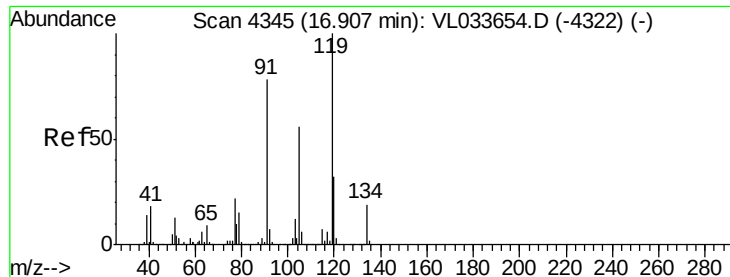
Tgt Ion:120 Resp: 1182830

Ion Ratio Lower Upper

120 100

91 472.8 379.0 568.6





#65

tert-Butylbenzene

Concen: 9.746 ppbv

RT: 16.91 min Scan# 4345

Delta R.T. 0.00 min

Lab File: VL033661.D

Acq: 6 May 2019 15:40

Instrument :

MSVOA_L

ClientSampleId :

ICVVL050619

Tot Ion:119 Resp: 4040752

Ion Ratio Lower Upper

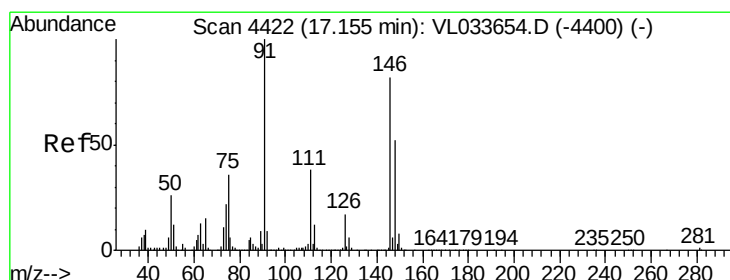
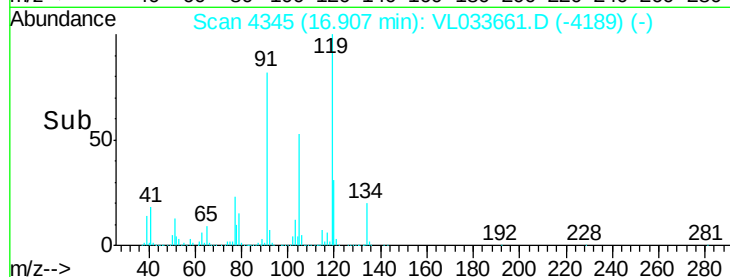
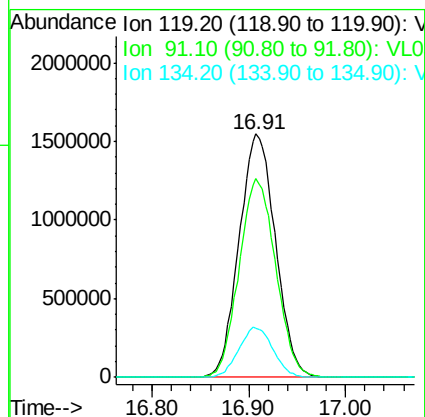
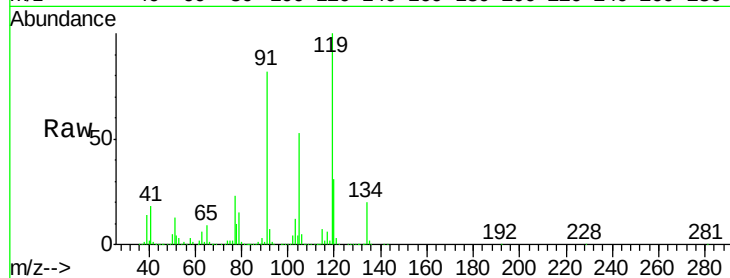
119 100

91 82.4 65.9 98.9

134 19.5 15.5 23.3

Manual Integrations
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#66

Benzyl Chloride

Concen: 11.830 ppbv

RT: 17.15 min Scan# 4422

Delta R.T. 0.00 min

Lab File: VL033661.D

Acq: 6 May 2019 15:40

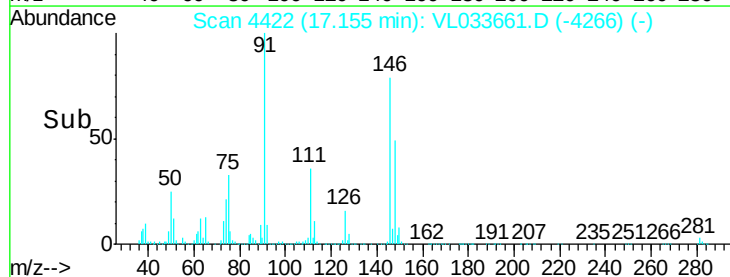
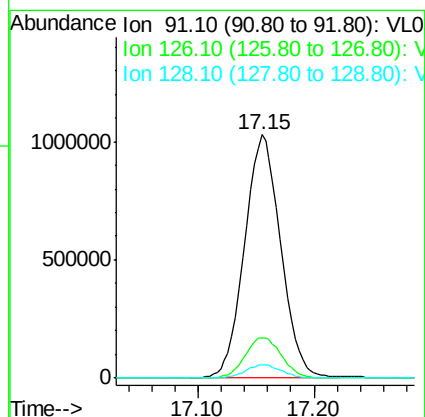
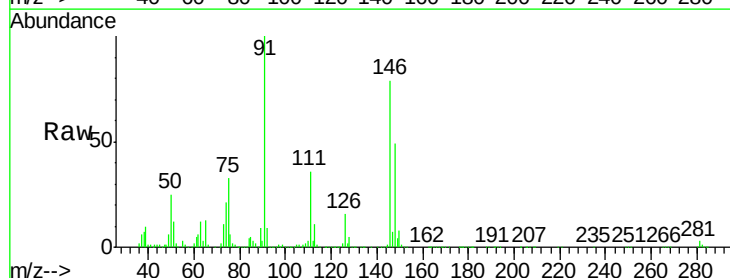
Tgt Ion: 91 Resp: 2231151

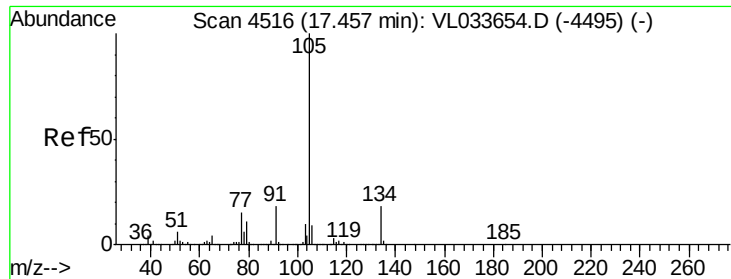
Ion Ratio Lower Upper

91 100

126 17.0 13.4 20.2

128 5.5 4.4 6.6





#67

sec-Butylbenzene

Concen: 9.711 ppbv

RT: 17.46 min Scan# 4517

Delta R.T. 0.00 min

Lab File: VL033661.D

Acq: 6 May 2019 15:40

Instrument :

MSVOA_L

ClientSampleId :

ICVVL050619

Tot Ion:105 Resp: 5617389

Ion Ratio Lower Upper

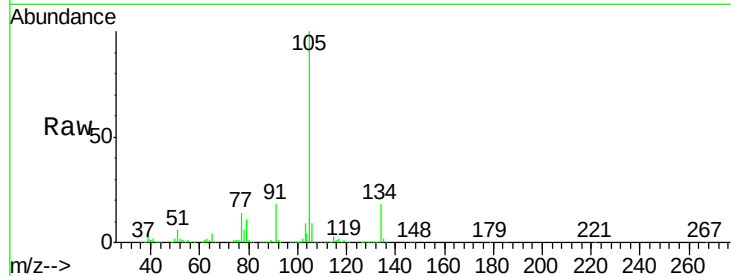
105 100

134 18.5 14.6 22.0

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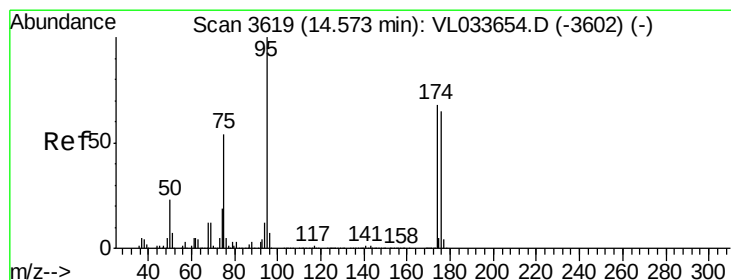
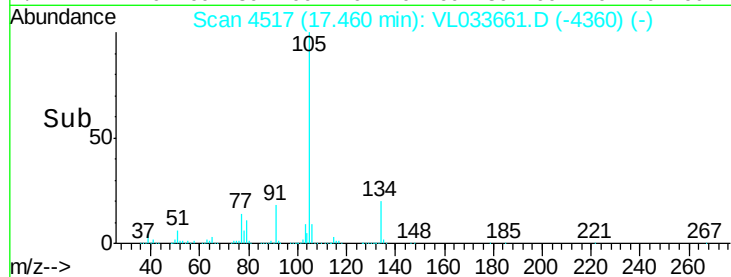
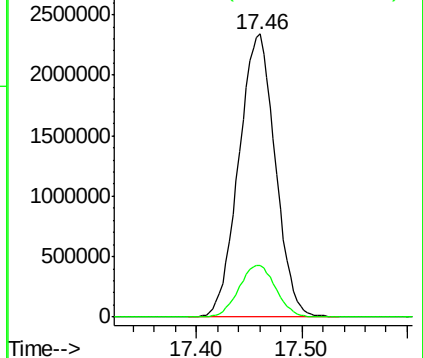
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.182 ppbv

RT: 14.58 min Scan# 3620

Delta R.T. 0.00 min

Lab File: VL033661.D

Acq: 6 May 2019 15:40

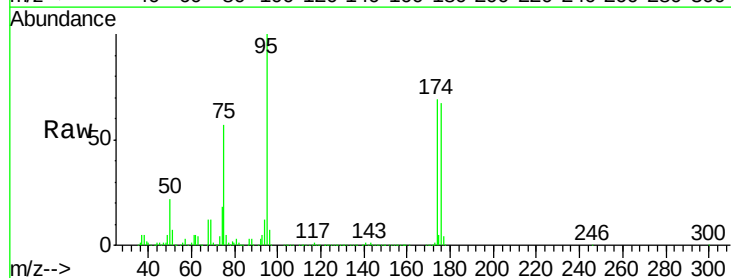
Tgt Ion: 95 Resp: 2376554

Ion Ratio Lower Upper

95 100

174 68.0 54.0 81.0

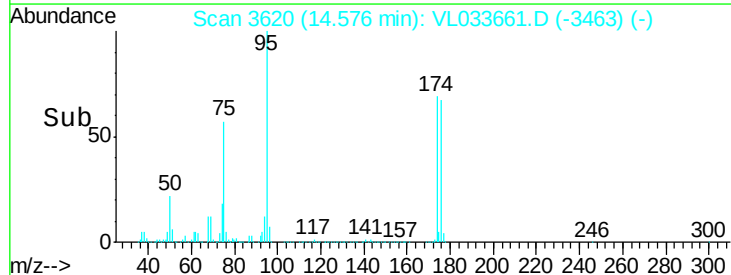
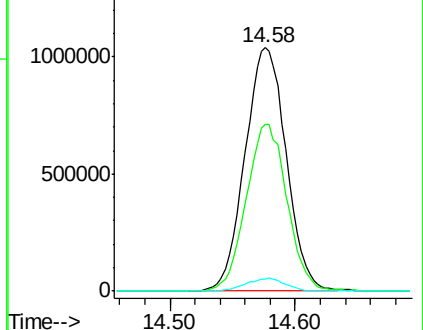
175 4.9 3.8 5.8

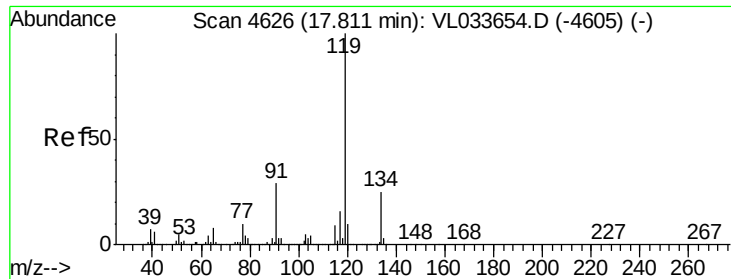


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





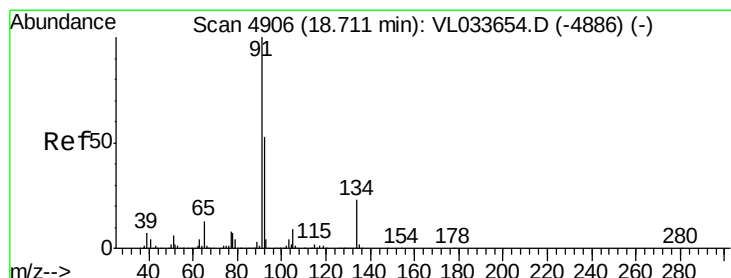
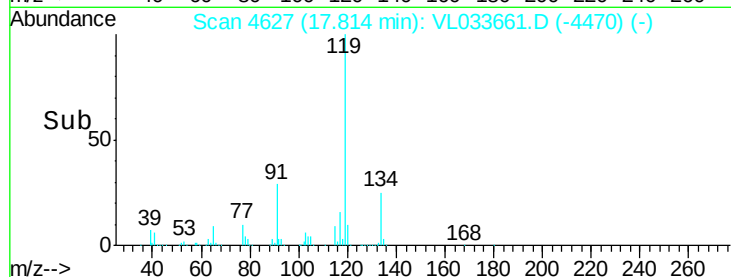
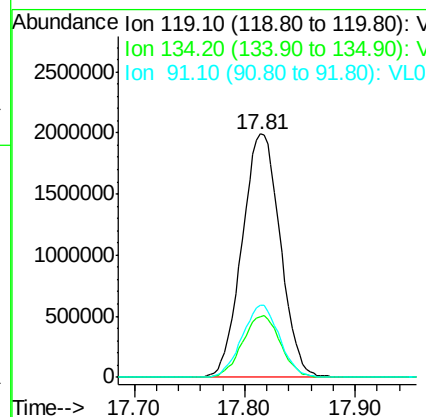
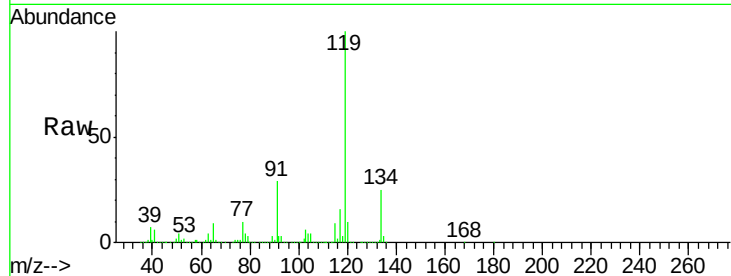
#69
 p-Isopropyltoluene
 Concen: 10.026 ppbv
 RT: 17.81 min Scan# 4627
 Delta R.T. 0.00 min
 Lab File: VL033661.D
 Acq: 6 May 2019 15:40

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL050619

Tot Ion:119 Resp: 4778247
 Ion Ratio Lower Upper
 119 100
 134 25.2 20.2 30.2
 91 28.9 23.4 35.2

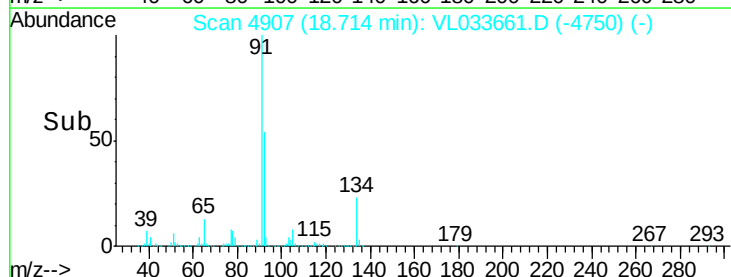
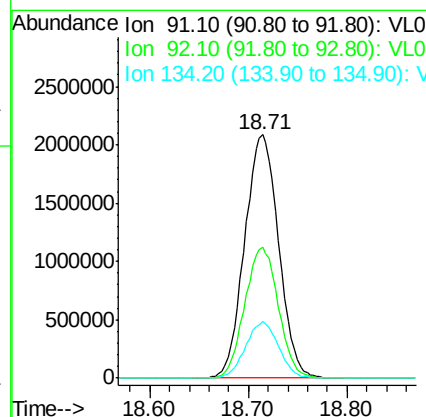
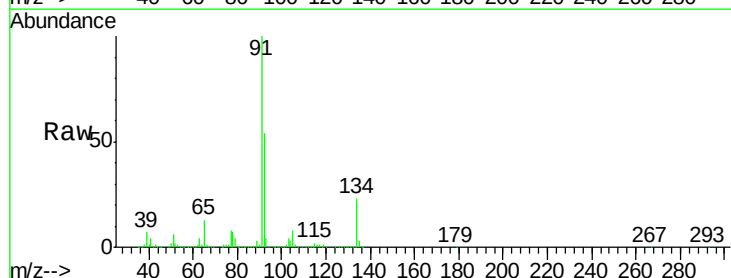
Manual Integrations
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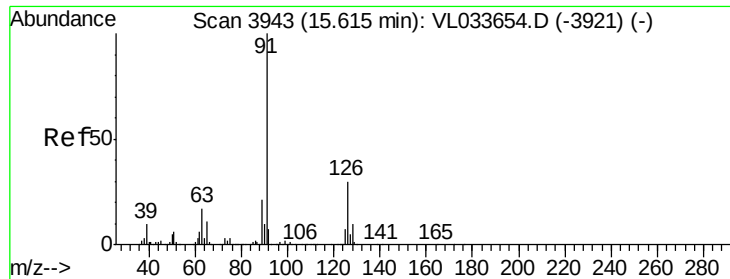
MMDadoda
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#70
 n-Butylbenzene
 Concen: 9.813 ppbv
 RT: 18.71 min Scan# 4907
 Delta R.T. 0.00 min
 Lab File: VL033661.D
 Acq: 6 May 2019 15:40

Tgt Ion: 91 Resp: 4959701
 Ion Ratio Lower Upper
 91 100
 92 53.3 42.5 63.7
 134 22.5 18.0 27.0





#71

2-Chlorotoluene

Concen: 10.317 ppbv

RT: 15.61 min Scan# 3943

Delta R.T. 0.00 min

Lab File: VL033661.D

Acq: 6 May 2019 15:40

Instrument :

MSVOA_L

ClientSampleId :

ICVVL050619

Tot Ion: 91 Resp: 3444892

Ion Ratio Lower Upper

91 100

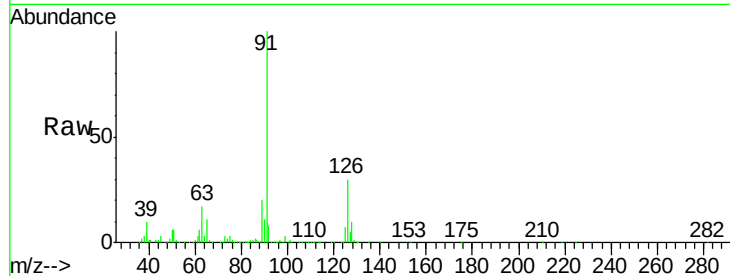
126 30.1 12.0 47.8

Manual Integrations

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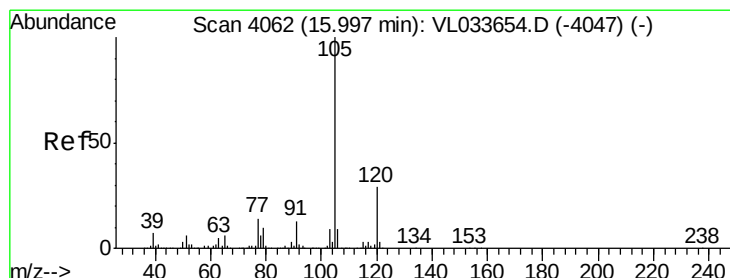
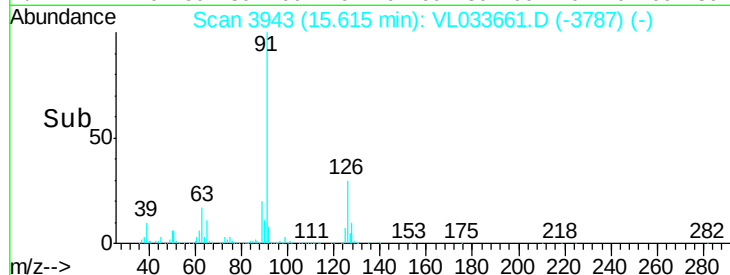
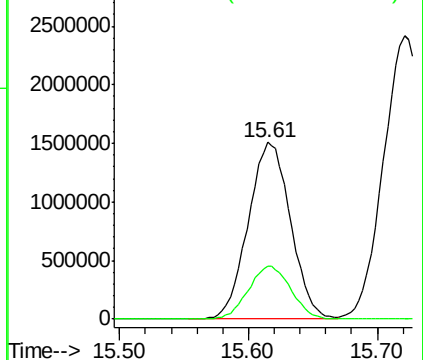
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 10.318 ppbv

RT: 16.00 min Scan# 4063

Delta R.T. 0.00 min

Lab File: VL033661.D

Acq: 6 May 2019 15:40

Tgt Ion:105 Resp: 4014290

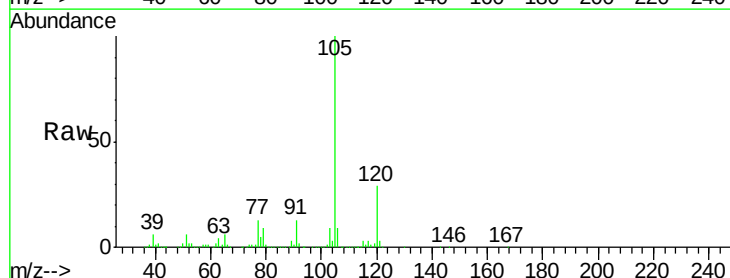
Ion Ratio Lower Upper

105 100

120 29.0 23.0 34.6

91 12.7 10.5 15.7

77 13.8 11.4 17.2

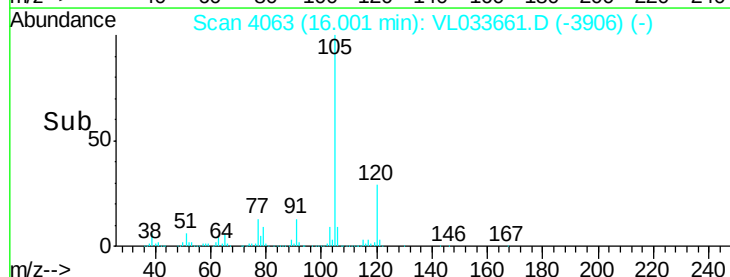
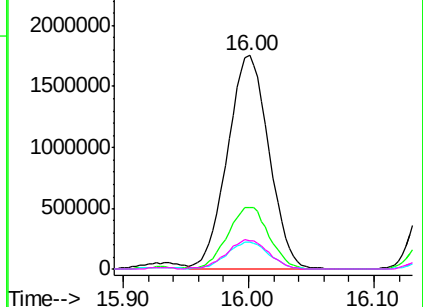


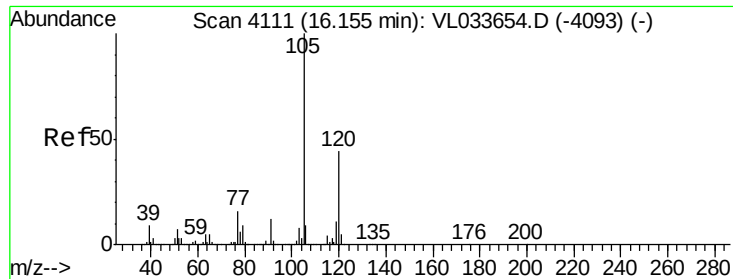
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 9.926 ppbv

RT: 16.16 min Scan# 4112

Delta R.T. 0.00 min

Lab File: VL033661.D

Acq: 6 May 2019 15:40

Instrument :

MSVOA_L

ClientSampleId :

ICVVL050619

Tot Ion:105 Resp: 3734118

Ion Ratio Lower Upper

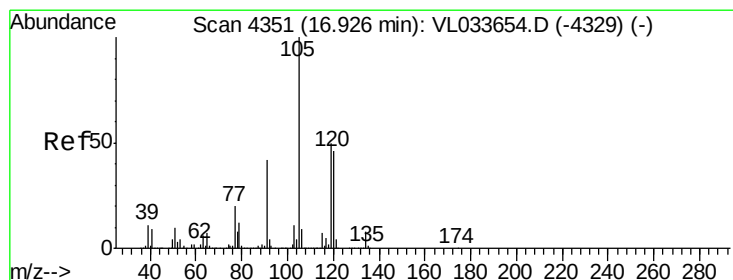
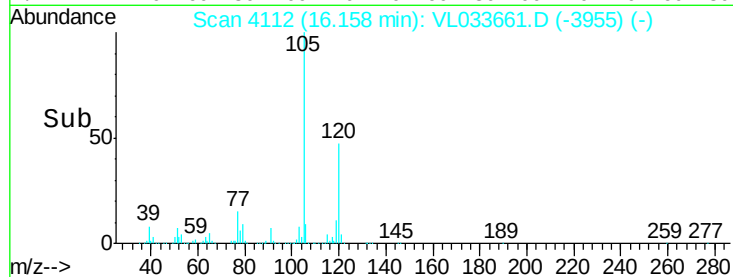
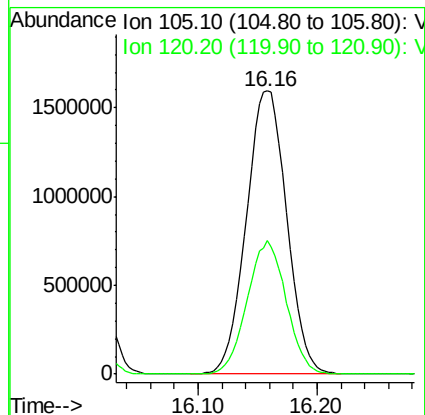
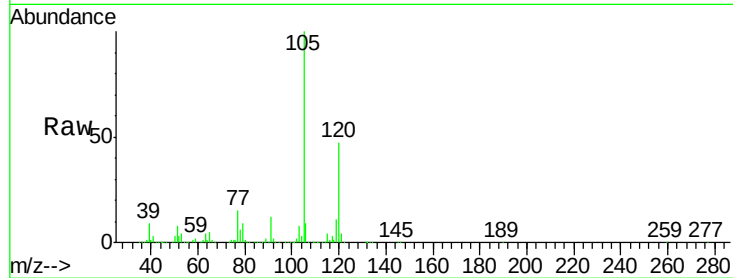
105 100

120 47.3 35.5 53.3

Manual Integrations
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#74

1,2,4-Trimethylbenzene

Concen: 9.318 ppbv

RT: 16.93 min Scan# 4351

Delta R.T. 0.00 min

Lab File: VL033661.D

Acq: 6 May 2019 15:40

Tgt Ion:105 Resp: 3896411

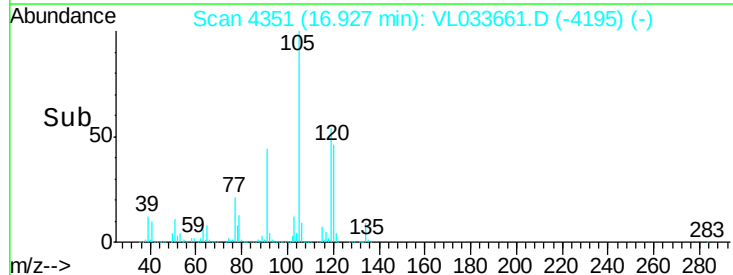
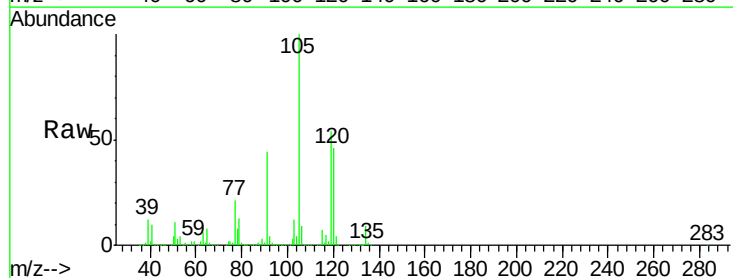
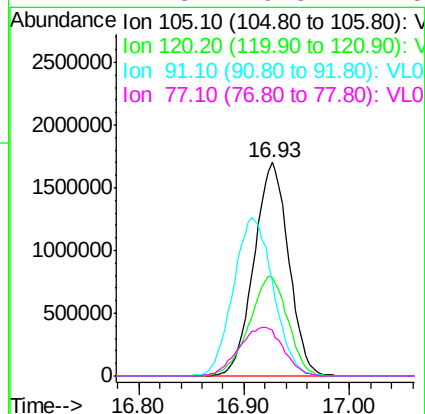
Ion Ratio Lower Upper

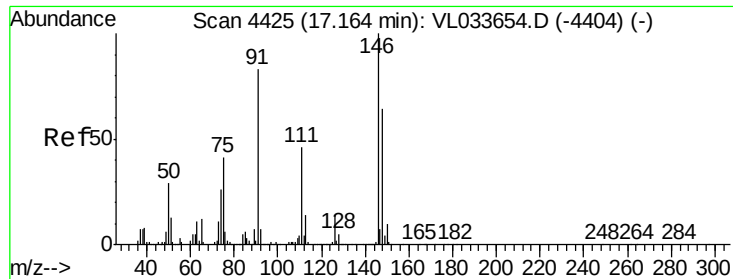
105 100

120 46.0 36.5 54.7

91 44.1 33.7 50.5

77 21.3 16.3 24.5





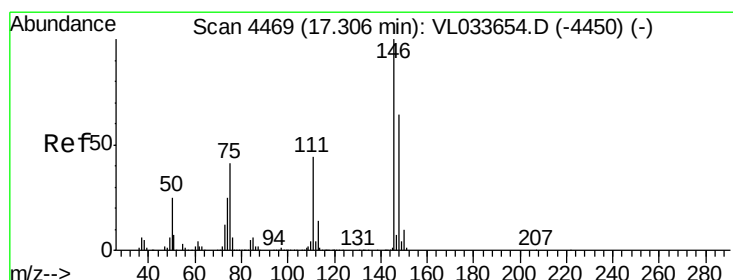
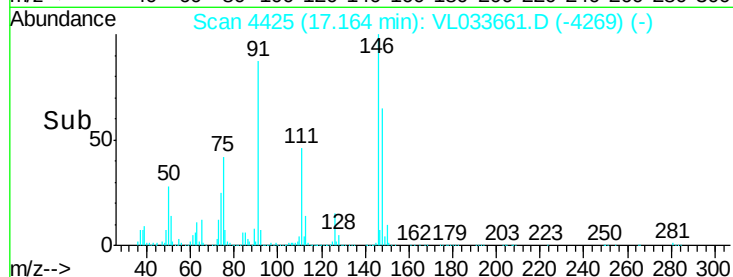
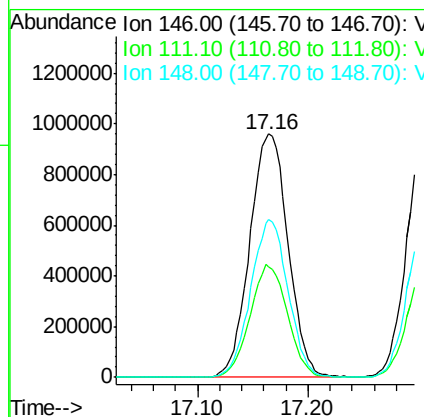
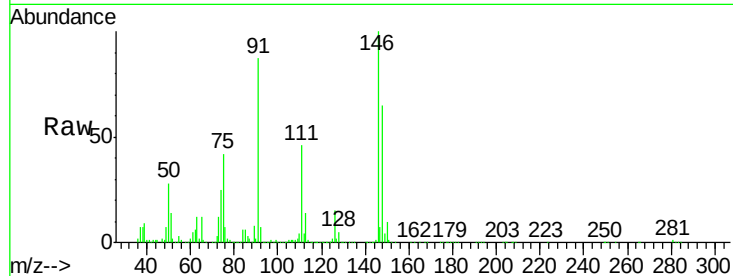
#75
 1,3-Dichlorobenzene
 Concen: 9.133 ppbv
 RT: 17.16 min Scan# 4425
 Delta R.T. 0.00 min
 Lab File: VL033661.D
 Acq: 6 May 2019 15:40

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL050619

Tot Ion:146 Resp: 2306812
 Ion Ratio Lower Upper
 146 100
 111 45.5 22.6 67.7
 148 63.4 31.8 95.4

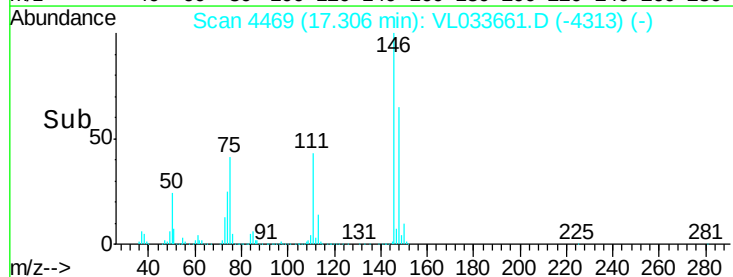
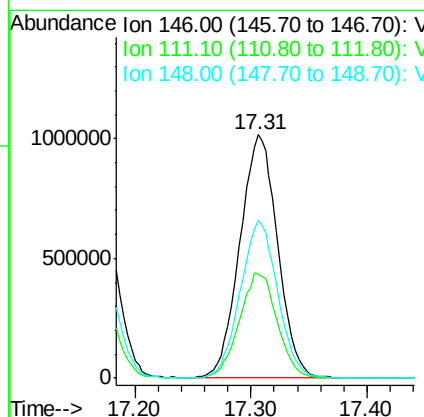
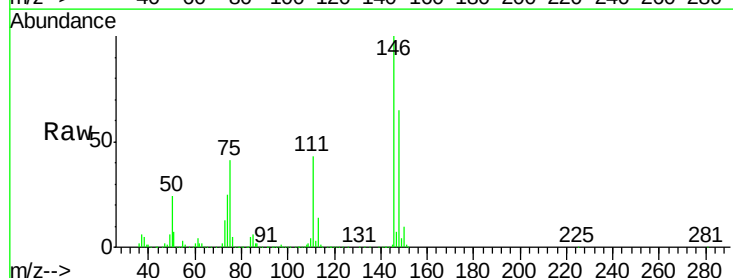
Manual Integrations
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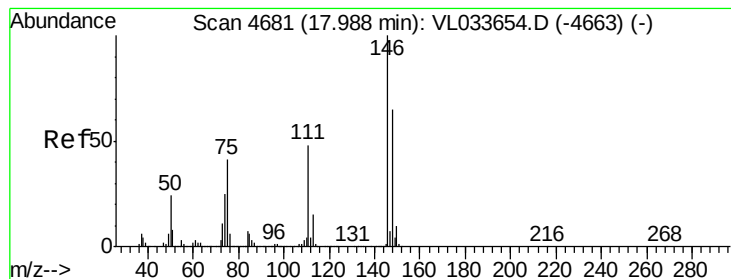
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#76
 1,4-Dichlorobenzene
 Concen: 9.618 ppbv
 RT: 17.31 min Scan# 4469
 Delta R.T. 0.00 min
 Lab File: VL033661.D
 Acq: 6 May 2019 15:40

Tgt Ion:146 Resp: 2305282
 Ion Ratio Lower Upper
 146 100
 111 43.3 22.0 66.0
 148 63.7 32.1 96.5





#77

1,2-Dichlorobenzene

Concen: 9.396 ppbv

RT: 17.99 min Scan# 4681

Delta R.T. 0.00 min

Lab File: VL033661.D

Acq: 6 May 2019 15:40

Instrument :

MSVOA_L

ClientSampleId :

ICVVL050619

Tot Ion:146 Resp: 2198570

Ion Ratio Lower Upper

146 100

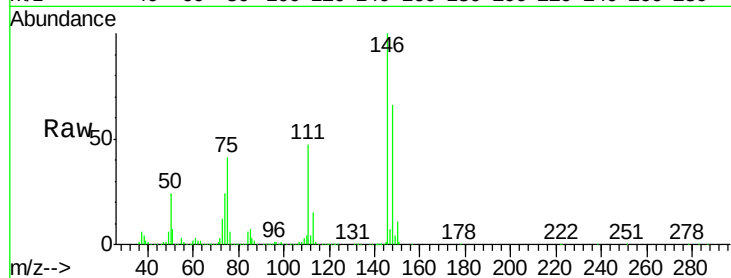
111 46.9 23.4 70.0

148 64.6 31.9 95.9

Manual Integrations
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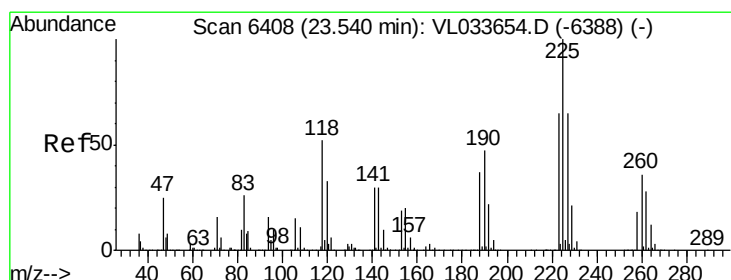
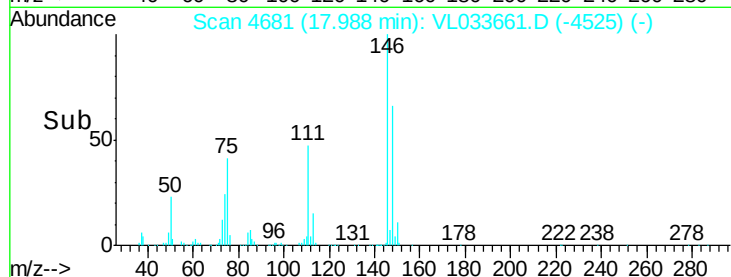
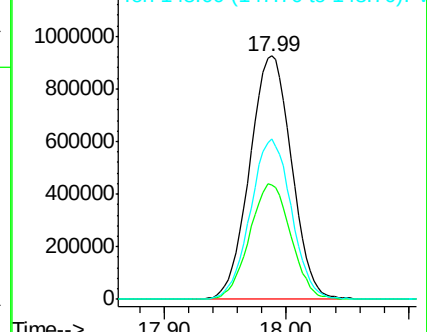


Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 10.746 ppbv

RT: 23.54 min Scan# 6409

Delta R.T. 0.00 min

Lab File: VL033661.D

Acq: 6 May 2019 15:40

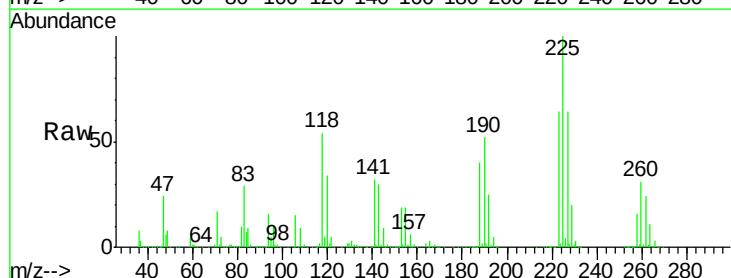
Tgt Ion:225 Resp: 1992771

Ion Ratio Lower Upper

225 100

223 63.5 50.7 76.1

227 64.0 51.4 77.2

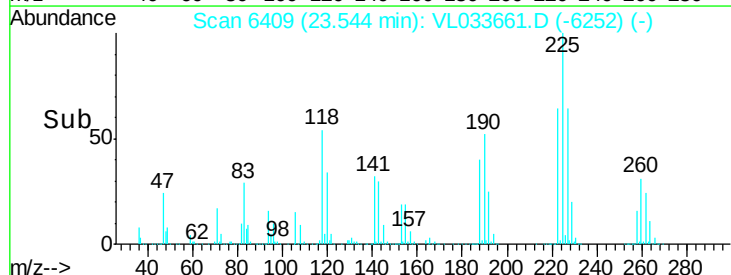
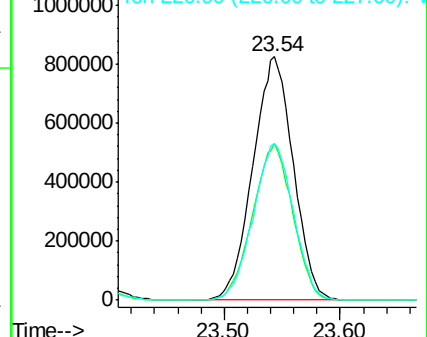


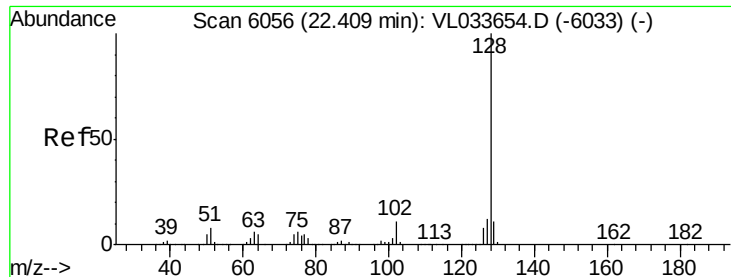
Abundance

Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





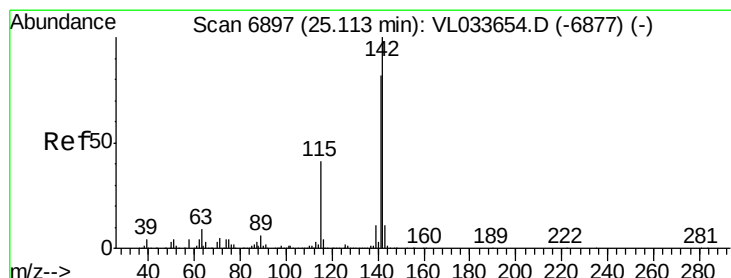
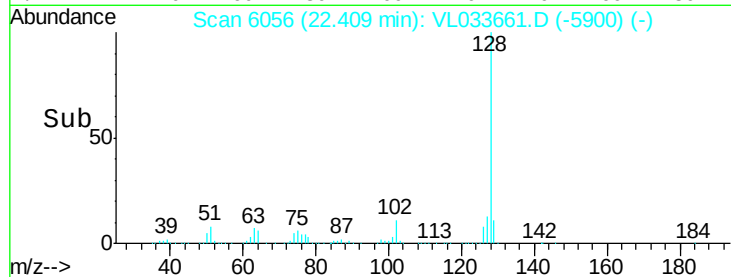
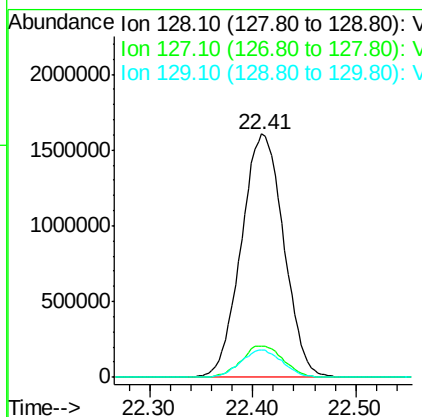
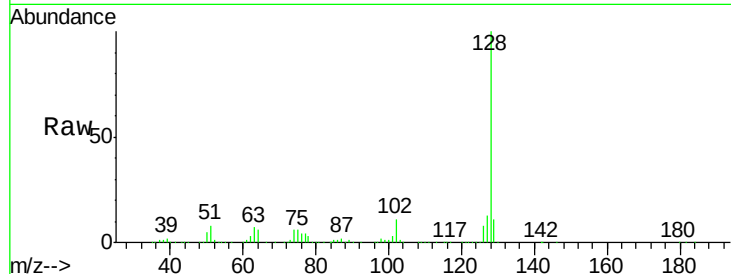
#79
Naphthalene
Concen: 12.045 ppbv
RT: 22.41 min Scan# 6056
Delta R.T. 0.00 min
Lab File: VL033661.D
Acq: 6 May 2019 15:40

Instrument :
MSVOA_L
ClientSampleId :
ICVVL050619

Tot Ion:128 Resp: 4598556
Ion Ratio Lower Upper
128 100
127 13.0 9.8 14.8
129 11.0 8.8 13.2

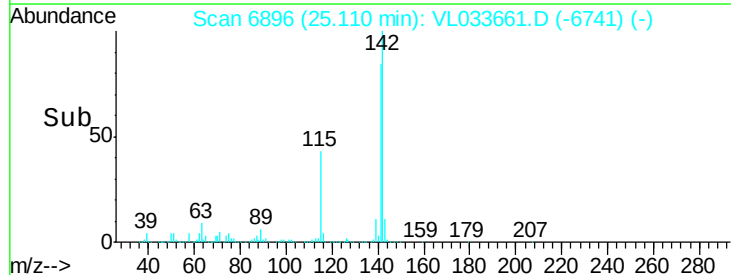
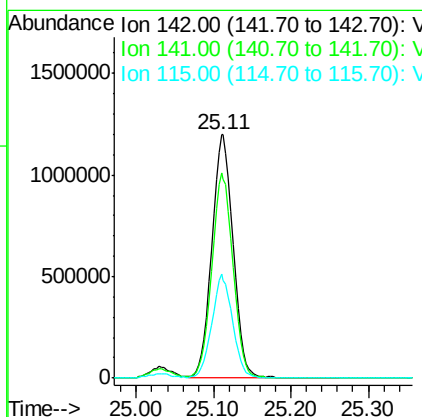
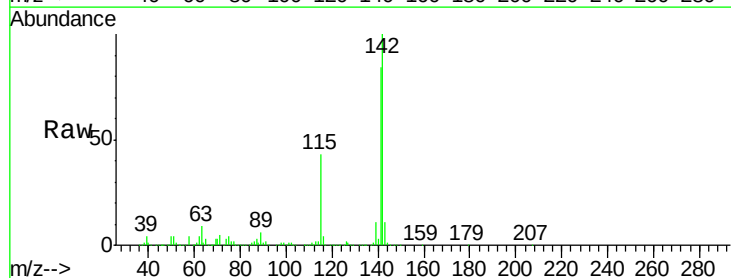
Manual Integrations
APPROVED

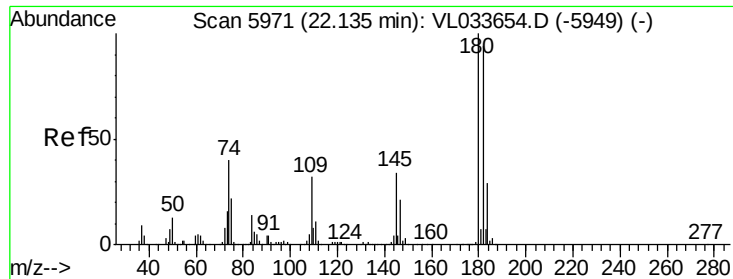
MMDadoda
5/8/2019 12:06:36 PM



#80
Naphthalene, 2-methyl-
Concen: 16.169 ppbv
RT: 25.11 min Scan# 6896
Delta R.T. -0.00 min
Lab File: VL033661.D
Acq: 6 May 2019 15:40

Tgt Ion:142 Resp: 2333662
Ion Ratio Lower Upper
142 100
141 84.1 67.9 101.9
115 41.3 34.2 51.4





#81
 1,2,4-Trichlorobenzene
 Concen: 10.565 ppbv
 RT: 22.14 min Scan# 5971
 Delta R.T. 0.00 min
 Lab File: VL033661.D
 Acq: 6 May 2019 15:40

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL050619

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.7	77.4	116.0
184	30.9	24.6	36.8

Manual Integrations
 APPROVED

MMDadoda
 5/8/2019 12:06:36 PM

