

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032519\
 Data File : VL033441.D
 Acq On : 25 Mar 2019 17:22
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL032519

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 1:22:50 AM

Quant Time: Apr 01 03:34:34 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032519AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 2

QLast Update : Tue Mar 26 16:00:50 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	811632	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	1876161	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2051367m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1522660	9.47	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.70%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	1294341	10.934	ppbv	98
3) Chlorodifluoromethane	3.01	51	812000	8.690	ppbv	100
4) Chloromethane	3.17	50	436173	8.821	ppbv	99
5) Vinyl Chloride	3.29	62	434180	8.937	ppbv	98
6) Bromomethane	3.51	94	273746	8.768	ppbv	94
7) Chloroethane	3.60	64	162034	8.962	ppbv	92
8) Dichlorotetrafluoroethane	3.22	85	1104944	8.760	ppbv	100
9) Propene	3.04	41	352140	8.974	ppbv	98
10) Heptane	8.25	43	962167	9.173	ppbv	99
11) Trichlorofluoromethane	4.00	101	1275404	8.742	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.55	101	877961	8.960	ppbv	100
13) Ethanol	3.65	45	88035	8.670	ppbv	62
14) Bromoethene	3.79	108	353341	9.041	ppbv	99
15) Acetone	3.90	43	773911	7.930	ppbv	99
16) 1,3-Butadiene	3.36	39	358531	9.262	ppbv	93
17) tert-Butyl alcohol	4.36	59	148338	8.267	ppbv	99
18) 1,1-Dichloroethene	4.35	96	384124	9.126	ppbv	95
19) Isopropyl Alcohol	4.02	45	511781	8.291	ppbv #	98
20) Methylene Chloride	4.41	84	339872	8.204	ppbv	95
21) Allyl Chloride	4.48	41	584332	9.472	ppbv	100
22) trans-1,2-Dichloroethene	4.97	96	409579	9.327	ppbv	92
23) Vinyl Acetate	5.16	43	1354865	9.754	ppbv	99
24) 1,1-Dichloroethane	5.09	63	947095	8.976	ppbv	99
25) Ethyl Acetate	5.77	43	1644974	9.085	ppbv	100
26) Hexane	5.78	57	734245	9.120	ppbv	99
27) Carbon Disulfide	4.62	76	964241	10.072	ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	1115040	9.616	ppbv	100
29) Chloroform	5.85	83	1229335	8.908	ppbv	99
30) Cyclohexane	7.25	84	608719	9.558	ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	764201	9.548	ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	1206276	9.179	ppbv	100
34) 2-Butanone	5.33	43	1072949	9.519	ppbv	100
35) Carbon Tetrachloride	7.14	117	1280409	9.635	ppbv	99
36) Benzene	7.01	78	1518228	9.644	ppbv	98
37) 1,2-Dichloroethane	6.42	62	942947	8.936	ppbv	100
38) Trichloroethene	7.96	130	606871	10.243	ppbv	98
39) 1,2-Dichloropropane	7.74	63	570490	9.251	ppbv	98
40) 1,4-Dioxane	7.95	88	201949m	9.182	ppbv	
41) Tetrahydrofuran	6.15	42	612716	9.883	ppbv	99
42) Bromodichloromethane	7.92	83	1367292	9.514	ppbv	99
43) Methyl Methacrylate	8.14	69	626365	9.799	ppbv	98

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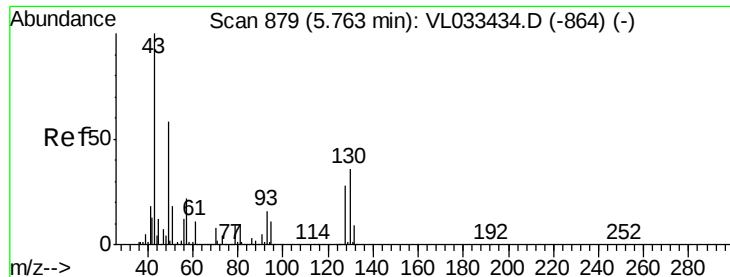
Manual Integrations
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 2
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	2566155	9.328	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	854690	10.890	ppbv	97
46) cis-1,3-Dichloropropene	8.84	75	960506	10.480	ppbv	96
47) 1,1,2-Trichloroethane	9.62	97	643795	9.194	ppbv	96
48) Dibromochloromethane	10.45	129	1167796	9.887	ppbv	100
49) Bromoform	13.21	173	1053918	9.340	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	1593726	9.656	ppbv	100
51) 2-Hexanone	10.27	43	1257272	10.212	ppbv #	100
52) Tetrachloroethene	11.37	164	590013	9.934	ppbv	95
53) Toluene	9.95	91	1831043	10.009	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1043472	9.527	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.28	131	835001m	8.881	ppbv	
57) Chlorobenzene	12.31	112	1410421	8.855	ppbv	97
58) Ethyl Benzene	12.87	91	2600338	9.492	ppbv	99
59) m/p-Xylene	13.16	91	4315091m	17.635	ppbv	
60) o-Xylene	13.86	91	2175517	9.194	ppbv	100
61) Styrene	13.69	104	1607469	9.899	ppbv	100
62) Isopropylbenzene	14.83	105	2978891	8.890	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	1522369	8.738	ppbv	100
64) n-propylbenzene	15.73	120	752241	8.848	ppbv	99
65) tert-Butylbenzene	16.91	119	2689729	9.110	ppbv	100
66) Benzyl Chloride	17.16	91	1481230	10.789	ppbv	100
67) sec-Butylbenzene	17.46	105	3774711	8.990	ppbv	100
69) p-Isopropyltoluene	17.82	119	3146794	9.204	ppbv	100
70) n-Butylbenzene	18.72	91	3330384	9.194	ppbv	100
71) 2-Chlorotoluene	15.62	91	2291336	8.993	ppbv	99
72) 4-Ethyltoluene	16.00	105	2469097	9.283	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	2362490	9.282	ppbv	99
74) 1,2,4-Trimethylbenzene	16.93	105	2466186	9.040	ppbv	97
75) 1,3-Dichlorobenzene	17.17	146	1454202	8.624	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	1443601	8.787	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1420921	8.882	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	1063899	10.046	ppbv	99
79) Naphthalene	22.42	128	2420628	10.365	ppbv	99
80) Naphthalene,2-methyl-	25.12	142	1037611	13.239	ppbv	98
81) 1,2,4-Trichlorobenzene	22.14	180	1231647	9.508	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. 0.00 min

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Acq: 25 Mar 2019 17:22

Instrument :

MSVOA_L

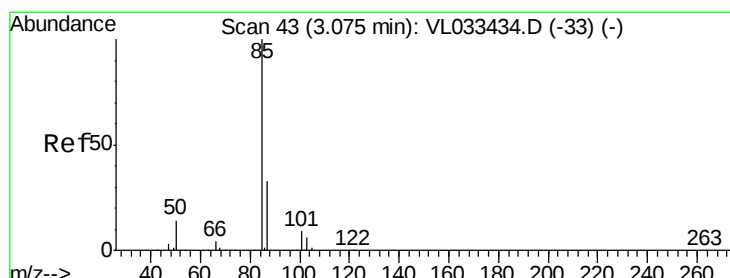
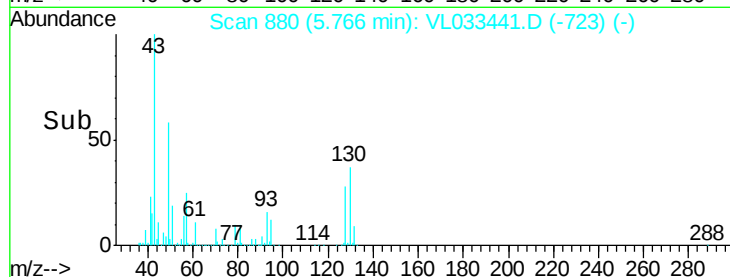
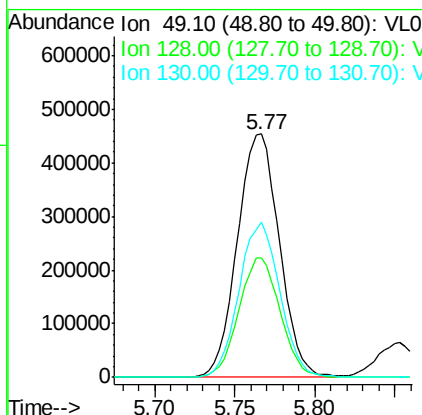
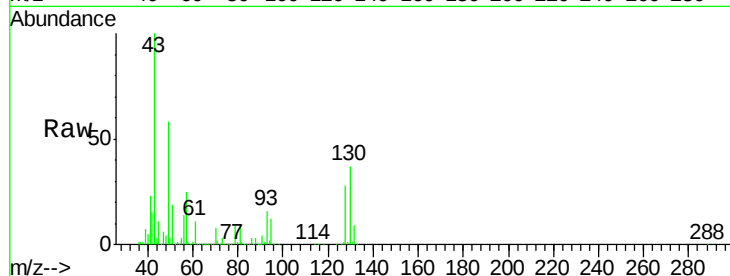
ClientSampleId :

ICVVL032519

Tgt Ion:	49	Resp:	811632
Ion Ratio	Lower	Upper	
49	100		
128	48.3	24.0	72.0
130	62.6	31.2	93.6

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#2

Dichlorodifluoromethane

Concen: 10.934 ppbv

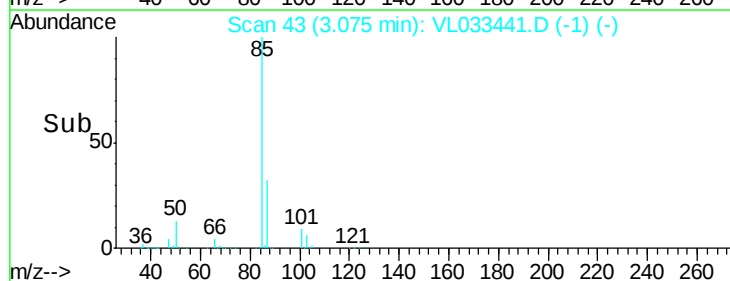
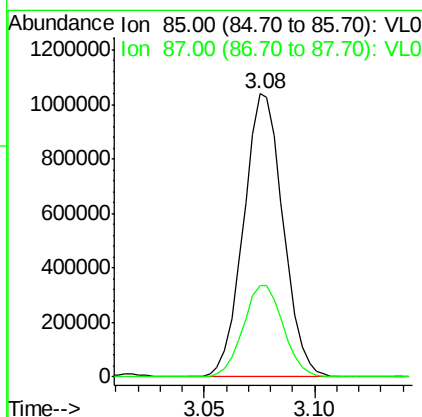
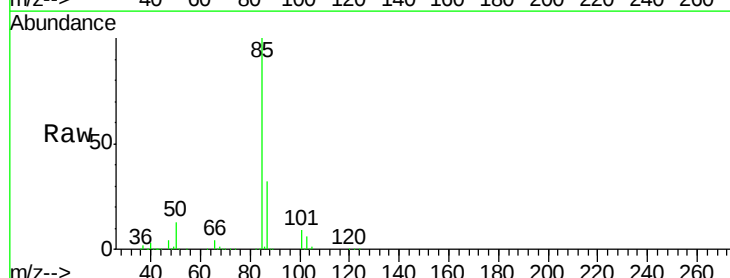
RT: 3.08 min Scan# 43

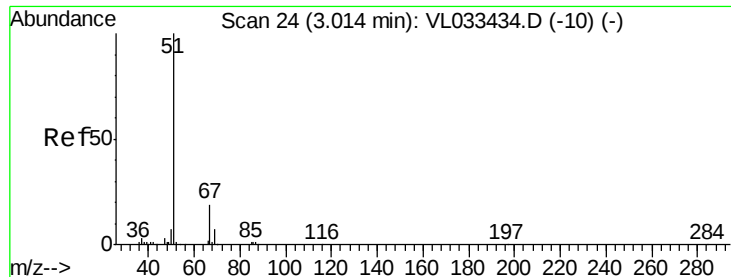
Delta R.T. 0.00 min

Lab File: VL033441.D

Acq: 25 Mar 2019 17:22

Tgt Ion:	85	Resp:	1294341
Ion Ratio	Lower	Upper	
85	100		
87	32.4	26.7	40.1





#3

Chlorodifluoromethane

Concen: 8.690 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL033441.D

Acq: 25 Mar 2019 17:22

Instrument :

MSVOA_L

ClientSampleId :

ICVVL032519

Tgt Ion: 51 Resp: 812000

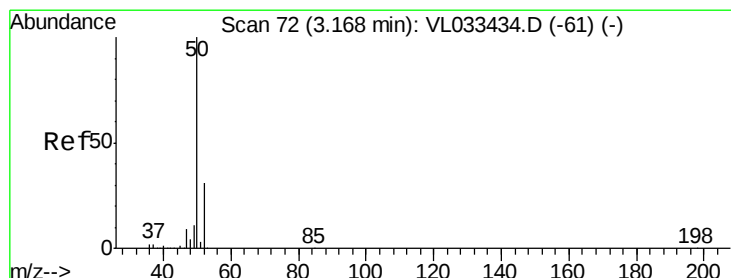
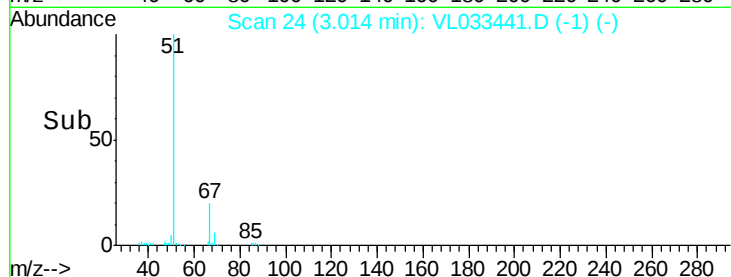
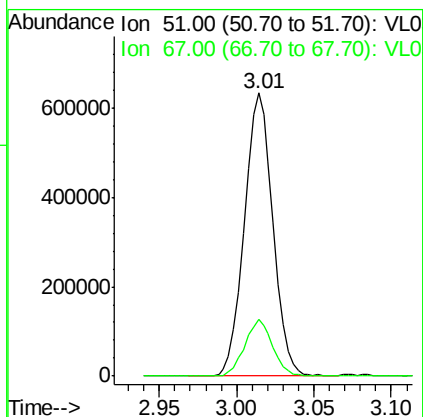
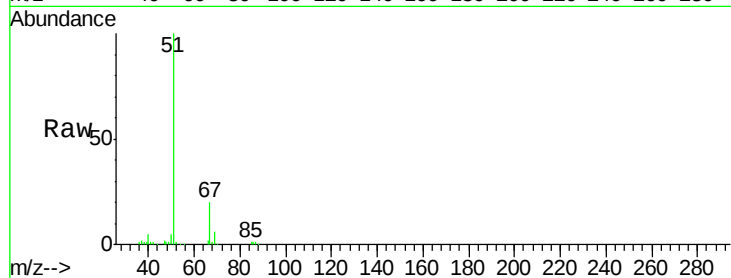
Ion Ratio Lower Upper

51 100

67 19.5 15.7 23.5

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#4

Chloromethane

Concen: 8.821 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033441.D

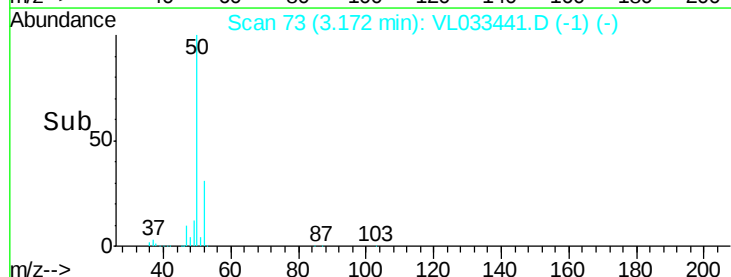
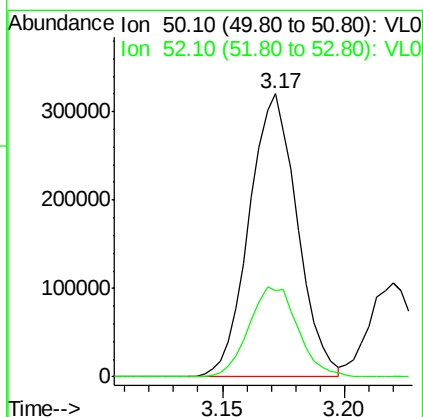
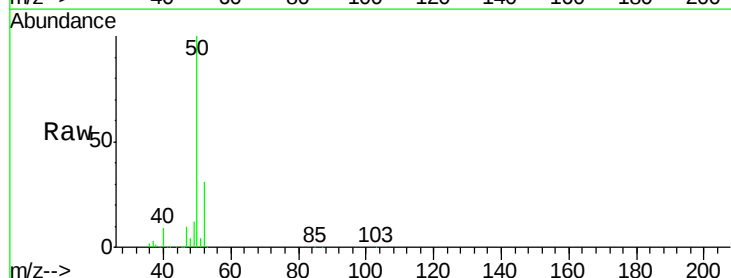
Acq: 25 Mar 2019 17:22

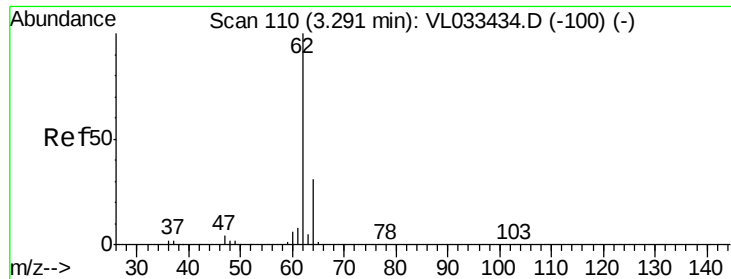
Tgt Ion: 50 Resp: 436173

Ion Ratio Lower Upper

50 100

52 30.8 25.0 37.6





#5

Vinyl Chloride

Concen: 8.937 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033441.D

Acq: 25 Mar 2019 17:22

Instrument :

MSVOA_L

ClientSampleId :

ICVVL032519

Tgt Ion: 62 Resp: 434180

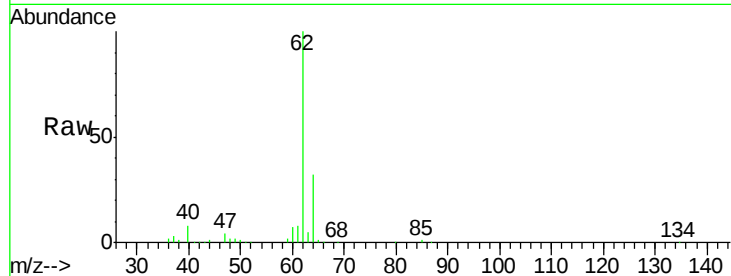
Ion Ratio Lower Upper

62 100

64 32.1 24.9 37.3

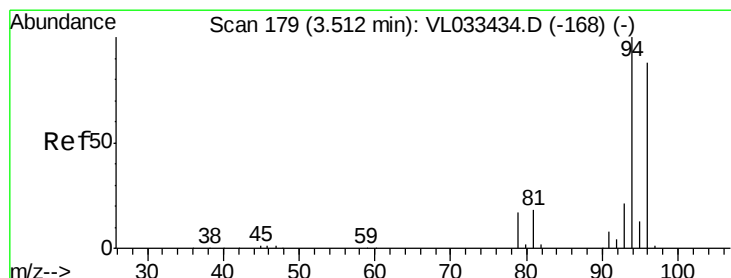
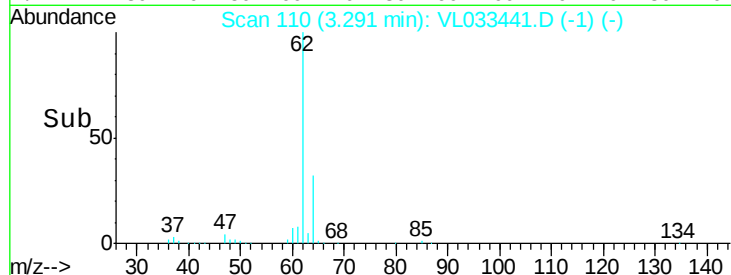
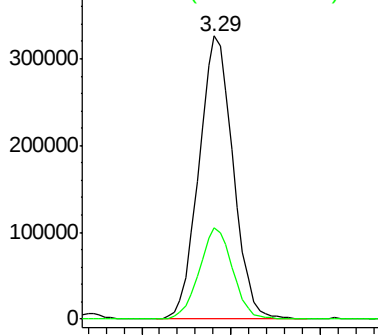
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 8.768 ppbv

RT: 3.51 min Scan# 179

Delta R.T. 0.00 min

Lab File: VL033441.D

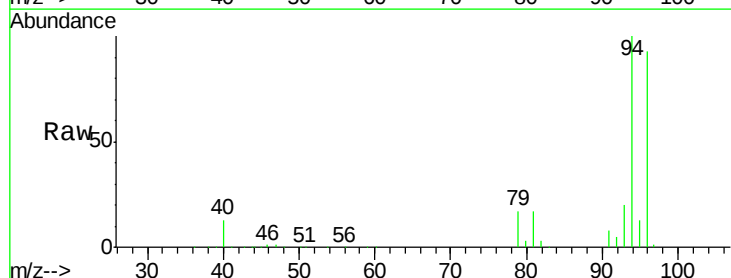
Acq: 25 Mar 2019 17:22

Tgt Ion: 94 Resp: 273746

Ion Ratio Lower Upper

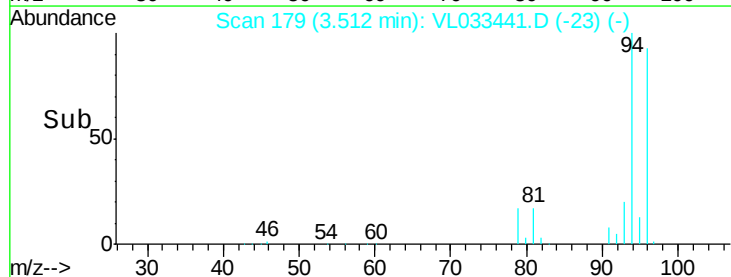
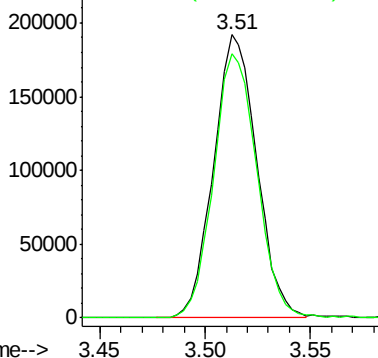
94 100

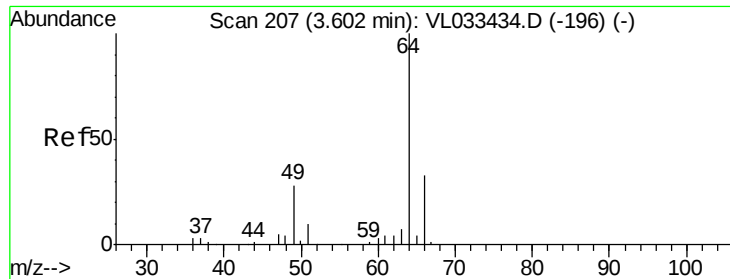
96 93.3 70.2 105.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 8.962 ppbv

RT: 3.60 min Scan# 207

Delta R.T. -0.00 min

Lab File: VL033441.D

Acq: 25 Mar 2019 17:22

Instrument :

MSVOA_L

ClientSampleId :

ICVVL032519

Tgt Ion: 64 Resp: 162034

Ion Ratio Lower Upper

64 100

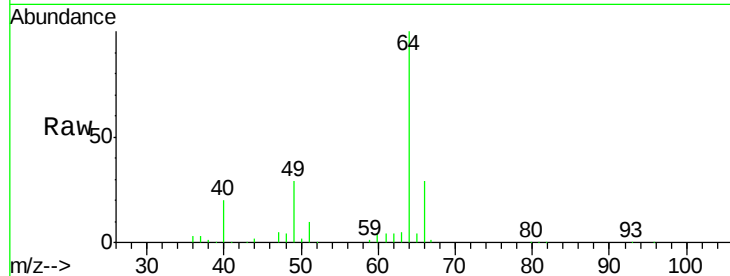
66 28.7 26.7 40.1

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

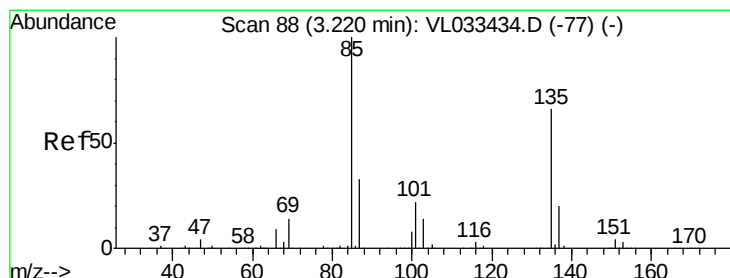
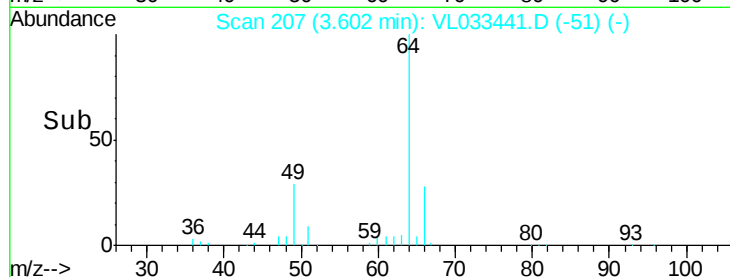
3.60

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 8.760 ppbv

RT: 3.22 min Scan# 88

Delta R.T. 0.00 min

Lab File: VL033441.D

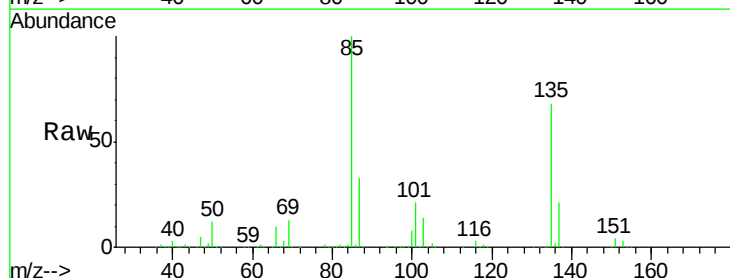
Acq: 25 Mar 2019 17:22

Tgt Ion: 85 Resp: 1104944

Ion Ratio Lower Upper

85 100

135 67.8 54.0 81.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

1000000

800000

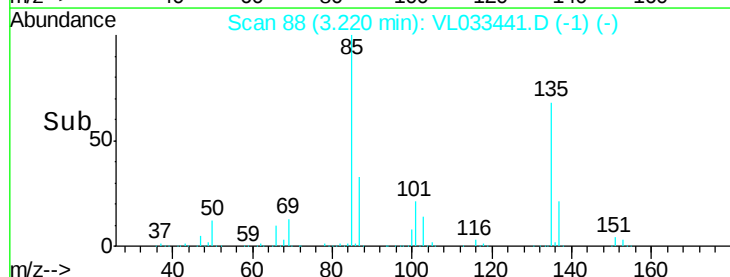
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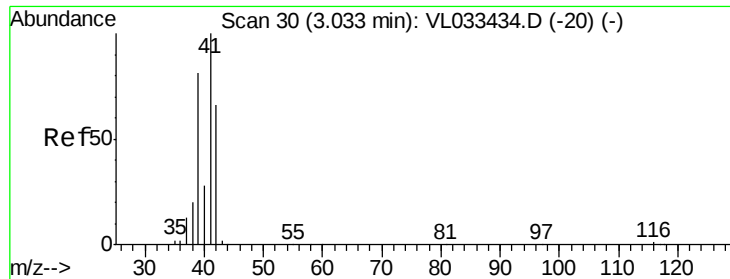
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200000

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Time-->





#9

Propene

Concen: 8.974 ppbv

RT: 3.04 min Scan# 31

Delta R.T. 0.00 min

Lab File: VL033441.D

Acq: 25 Mar 2019 17:22

Instrument :

MSVOA_L

ClientSampleId :

ICVVL032519

Tgt Ion: 41 Resp: 352140

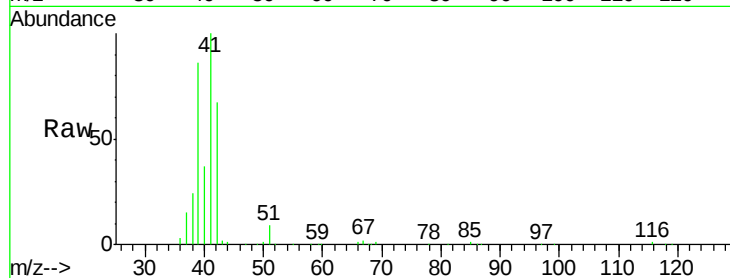
Ion Ratio Lower Upper

41 100

42 69.3 53.9 80.9

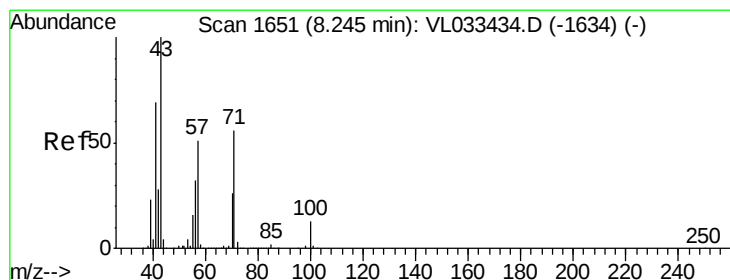
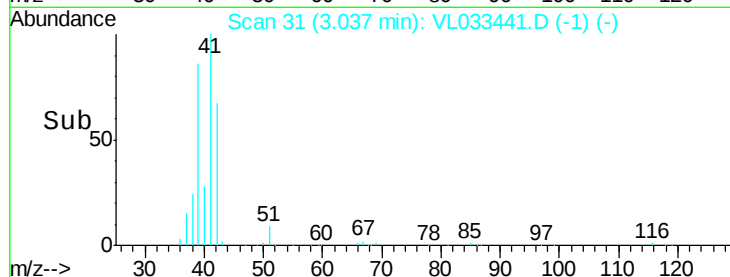
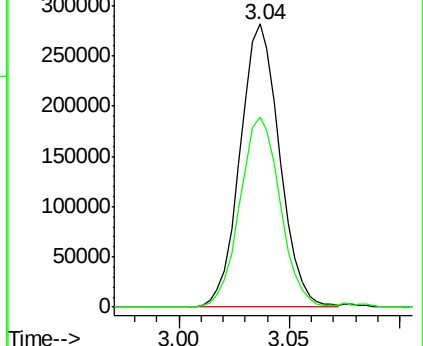
Manual Integrations
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4/1/2019 1:22:50 AM



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 9.173 ppbv

RT: 8.25 min Scan# 1652

Delta R.T. 0.00 min

Lab File: VL033441.D

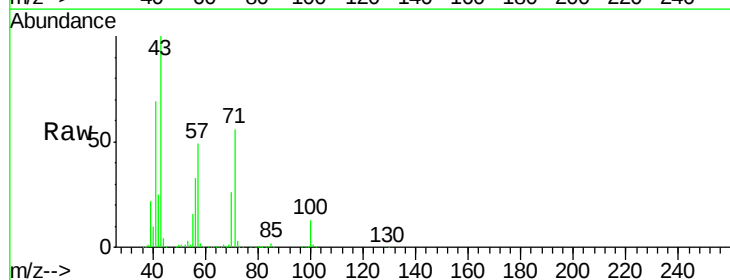
Acq: 25 Mar 2019 17:22

Tgt Ion: 43 Resp: 962167

Ion Ratio Lower Upper

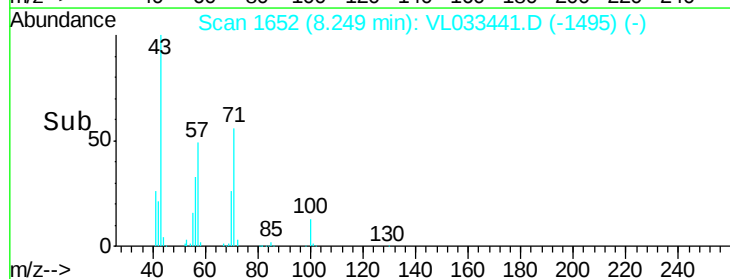
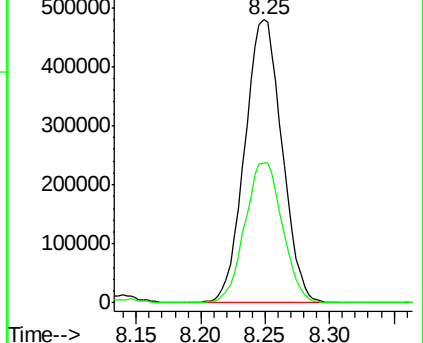
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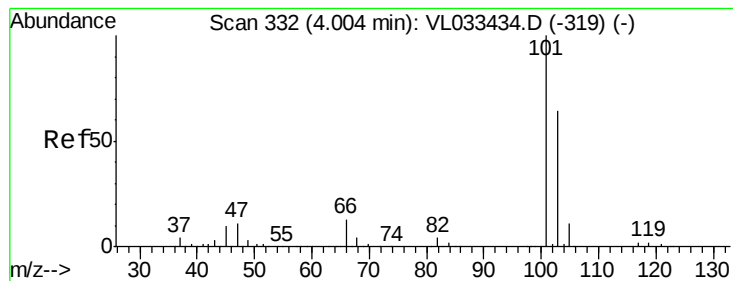
57 50.3 40.6 60.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 8.742 ppbv

RT: 4.00 min Scan# 332

Delta R.T. 0.00 min

Lab File: VL033441.D

Acq: 25 Mar 2019 17:22

Instrument :

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ClientSampleId :

ICVVL032519

Tgt Ion:101 Resp: 1275404

Ion Ratio Lower Upper

101 100

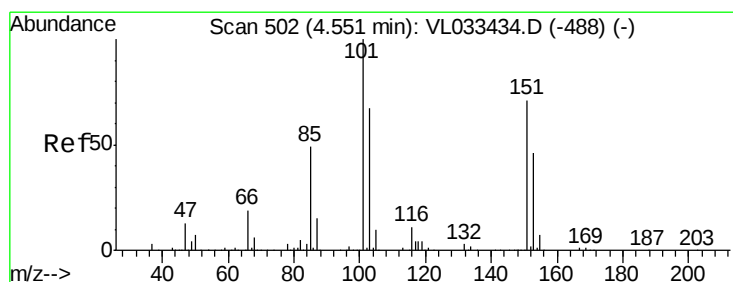
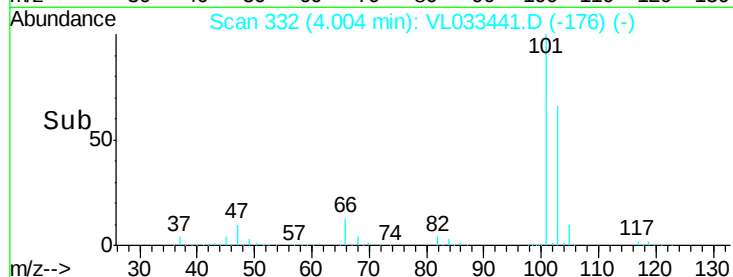
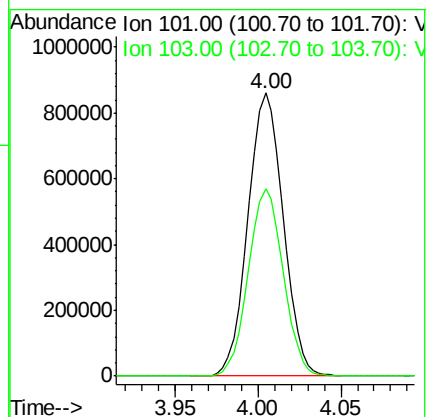
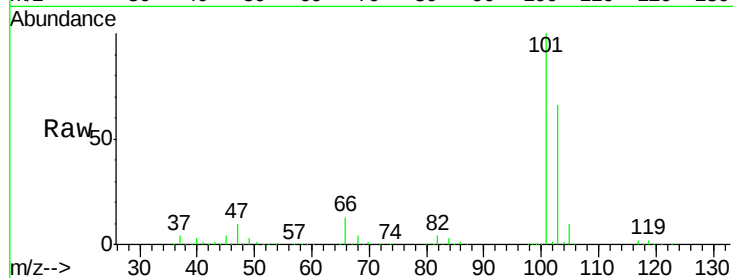
103 66.4 51.3 76.9

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4/1/2019 1:22:50 AM



#12

1,1,2-Trichlorotrifluoroethane

Concen: 8.960 ppbv

RT: 4.55 min Scan# 503

Delta R.T. 0.00 min

Lab File: VL033441.D

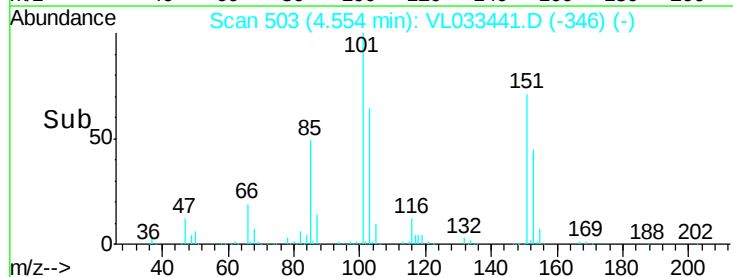
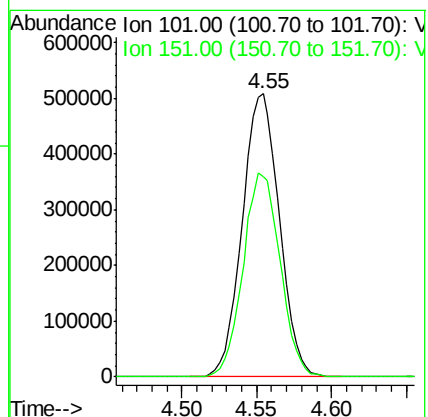
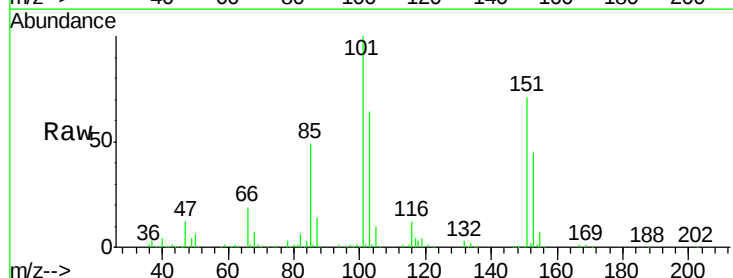
Acq: 25 Mar 2019 17:22

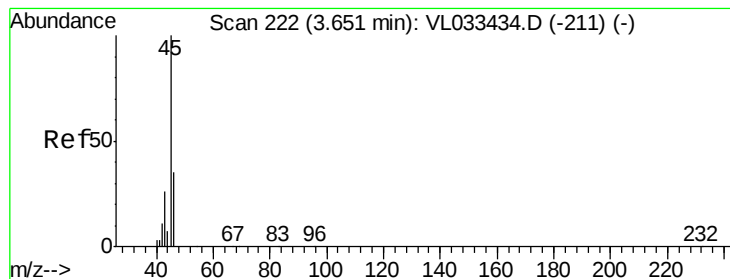
Tgt Ion:101 Resp: 877961

Ion Ratio Lower Upper

101 100

151 72.0 57.7 86.5





#13

Ethanol

Concen: 8.670 ppbv

RT: 3.65 min Scan# 222

Delta R.T. 0.00 min

Lab File: VL033441.D

Acq: 25 Mar 2019 17:22

Instrument :

MSVOA_L

ClientSampleId :

ICVVL032519

Tgt Ion: 45 Resp: 88035

Ion Ratio Lower Upper

45 100

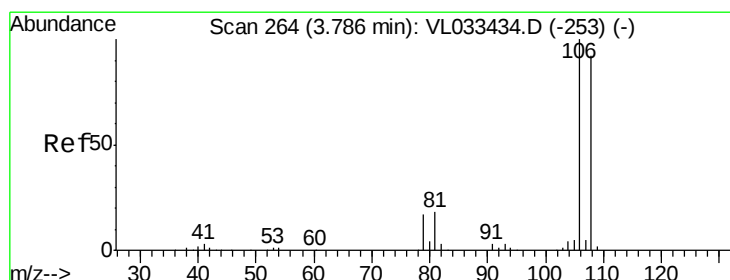
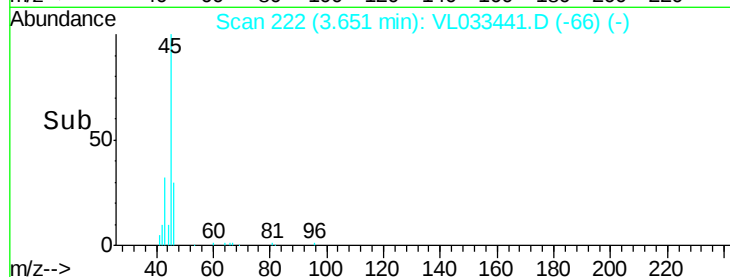
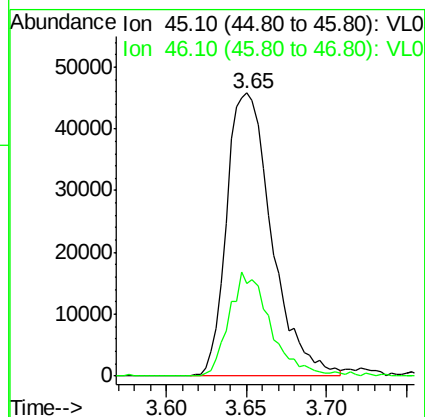
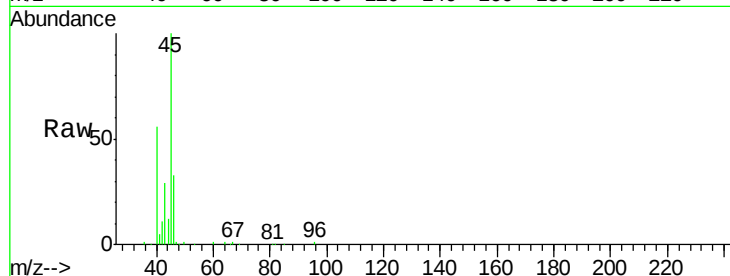
46 34.1 25.4 101.8

Manual Integrations

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#14

Bromoethene

Concen: 9.041 ppbv

RT: 3.79 min Scan# 265

Delta R.T. 0.00 min

Lab File: VL033441.D

Acq: 25 Mar 2019 17:22

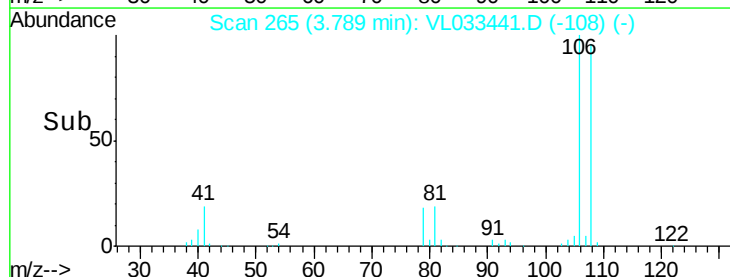
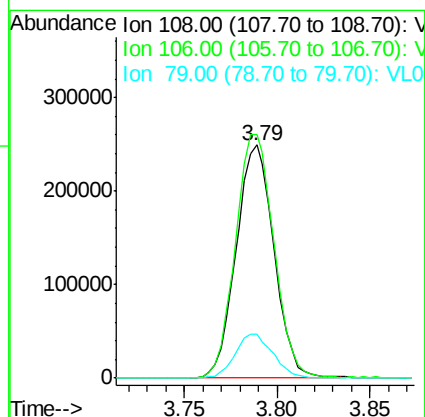
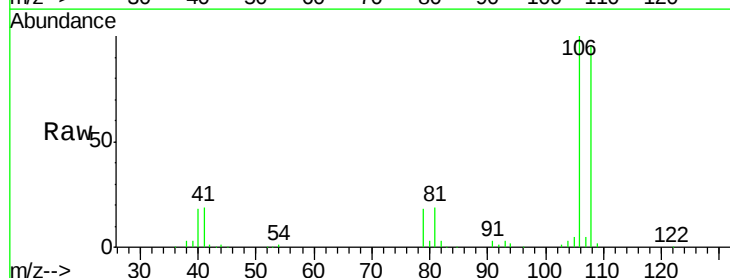
Tgt Ion: 108 Resp: 353341

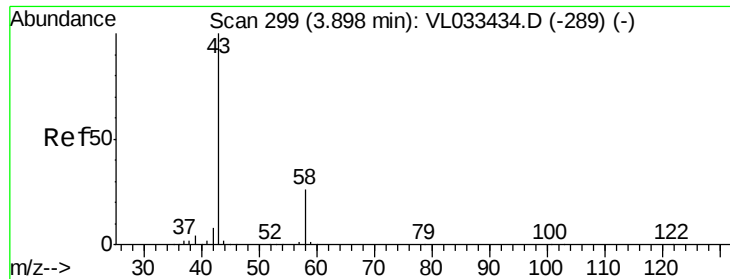
Ion Ratio Lower Upper

108 100

106 107.1 86.4 129.6

79 19.2 15.8 23.8





#15

Acetone

Concen: 7.930 ppbv

RT: 3.90 min Scan# 301

Delta R.T. 0.01 min

Lab File: VL033441.D

Acq: 25 Mar 2019 17:22

Instrument :

MSVOA_L

ClientSampleId :

ICVVL032519

Tgt Ion: 43 Resp: 773911

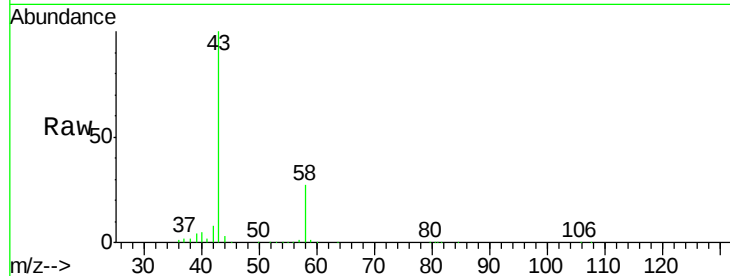
Ion Ratio Lower Upper

43 100

58 26.1 20.5 30.7

Manual Integrations
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.90

500000

400000

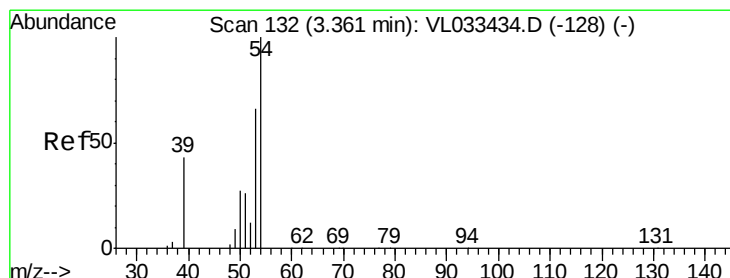
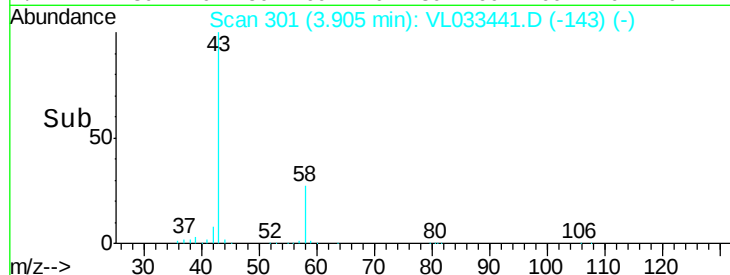
300000

200000

100000

0

Time-->



#16

1,3-Butadiene

Concen: 9.262 ppbv

RT: 3.36 min Scan# 133

Delta R.T. 0.00 min

Lab File: VL033441.D

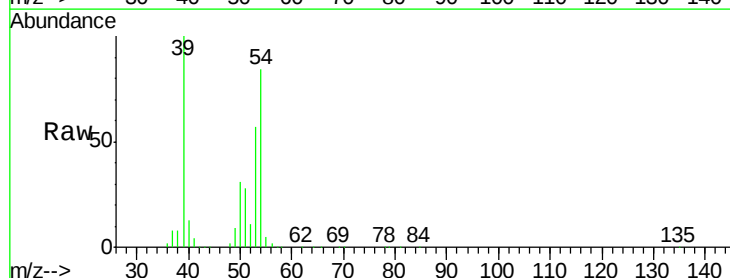
Acq: 25 Mar 2019 17:22

Tgt Ion: 39 Resp: 358531

Ion Ratio Lower Upper

39 100

54 93.0 69.4 104.2



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.36

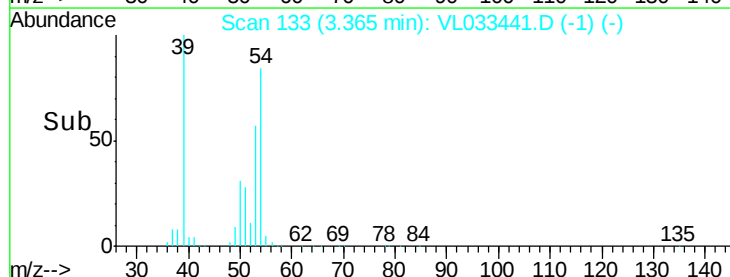
300000

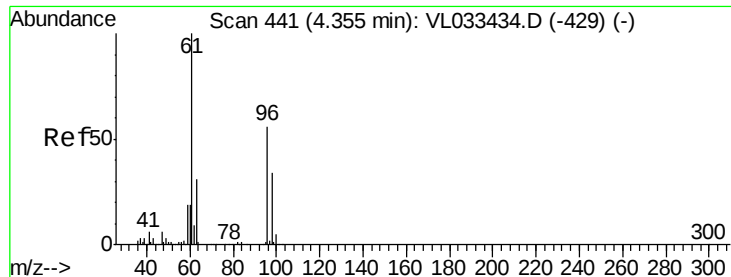
200000

100000

0

Time-->





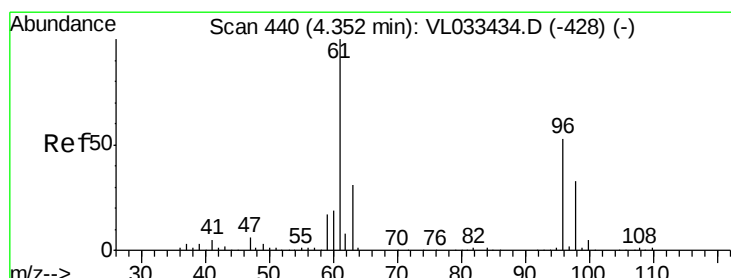
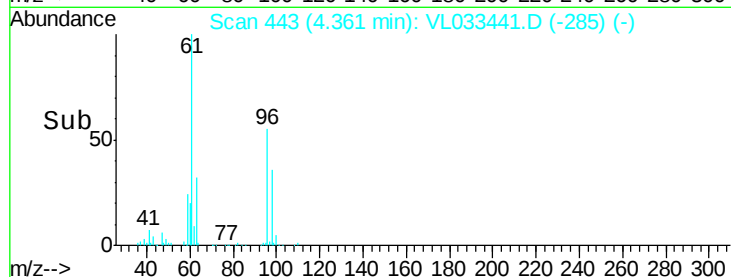
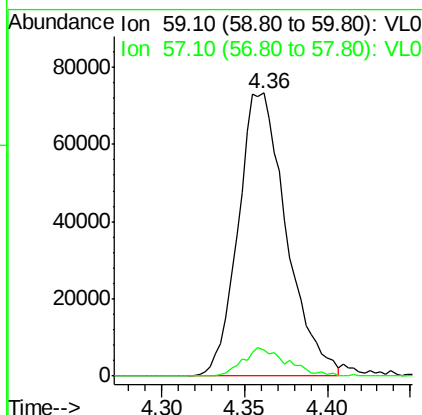
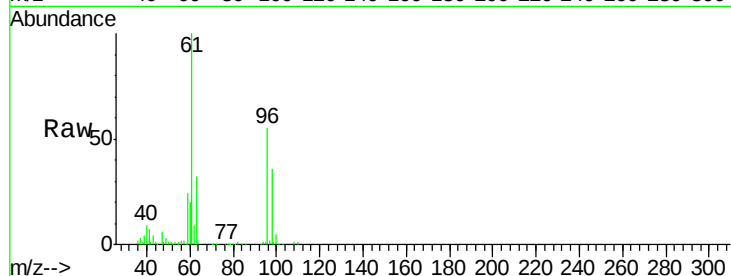
#17
tert-Butyl alcohol
Concen: 8.267 ppbv
RT: 4.36 min Scan# 443
Delta R.T. 0.01 min
Lab File: VL033441.D
Acq: 25 Mar 2019 17:22

Instrument :
MSVOA_L
ClientSampleId :
ICVVL032519

Tgt Ion: 59 Resp: 148338
Ion Ratio Lower Upper
59 100
57 9.4 7.8 11.8

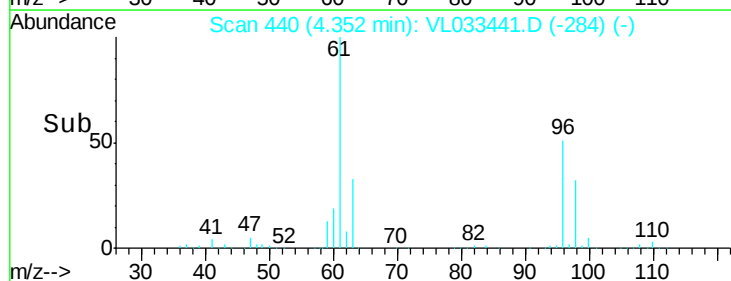
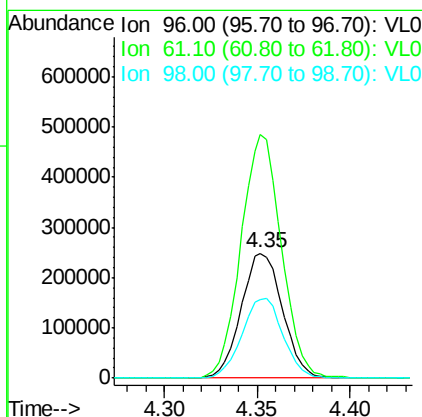
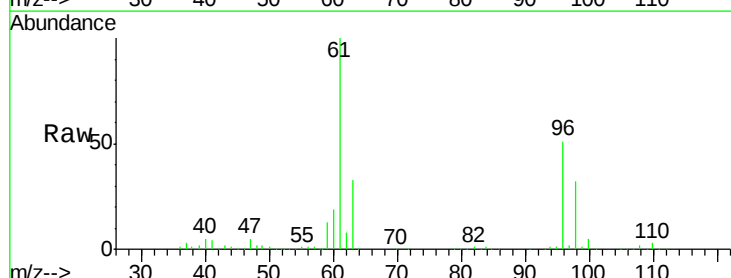
Manual Integrations
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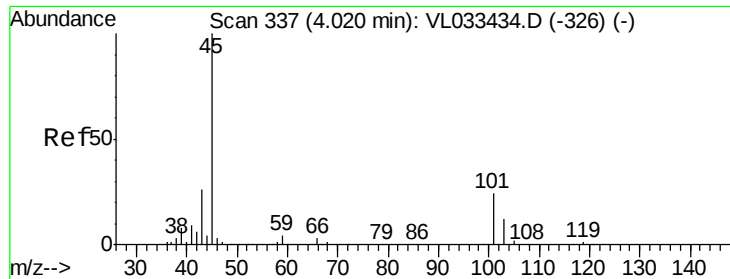
MMDadoda
4/1/2019 1:22:50 AM



#18
1,1-Dichloroethene
Concen: 9.126 ppbv
RT: 4.35 min Scan# 440
Delta R.T. -0.00 min
Lab File: VL033441.D
Acq: 25 Mar 2019 17:22

Tgt Ion: 96 Resp: 384124
Ion Ratio Lower Upper
96 100
61 194.8 149.8 224.6
98 63.3 48.7 73.1





#19

Isopropyl Alcohol

Concen: 8.291 ppbv

RT: 4.02 min Scan# 338

Delta R.T. 0.00 min

Lab File: VL033441.D

Acq: 25 Mar 2019 17:22

Instrument :

MSVOA_L

ClientSampleId :

ICVVL032519

Tgt Ion: 45 Resp: 511781

Ion Ratio Lower Upper

45 100

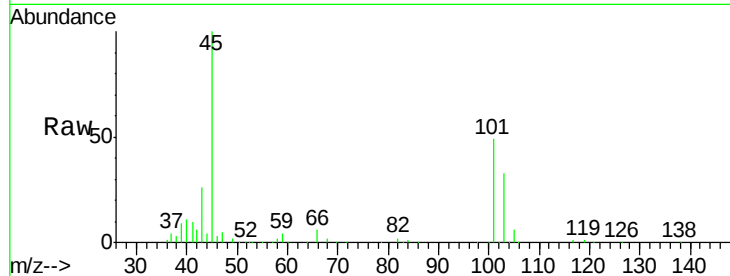
58 2.5 1.4 2.2#

Manual Integrations

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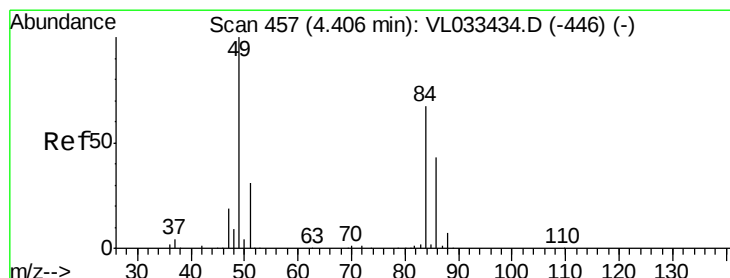
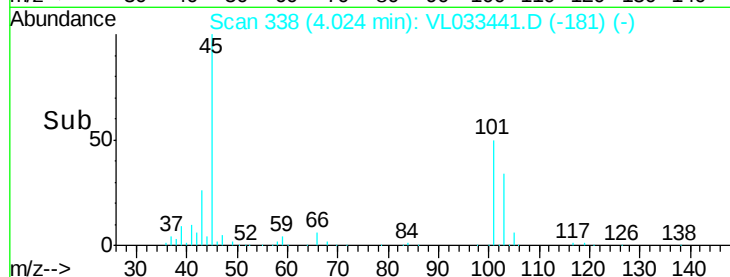
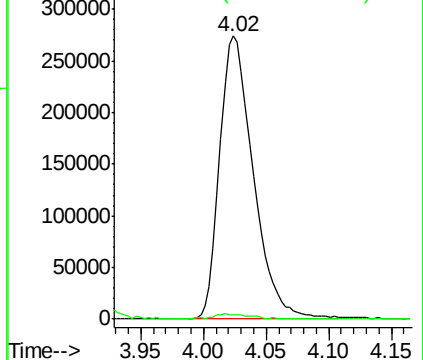
MMDadoda

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 8.204 ppbv

RT: 4.41 min Scan# 458

Delta R.T. 0.00 min

Lab File: VL033441.D

Acq: 25 Mar 2019 17:22

Tgt Ion: 84 Resp: 339872

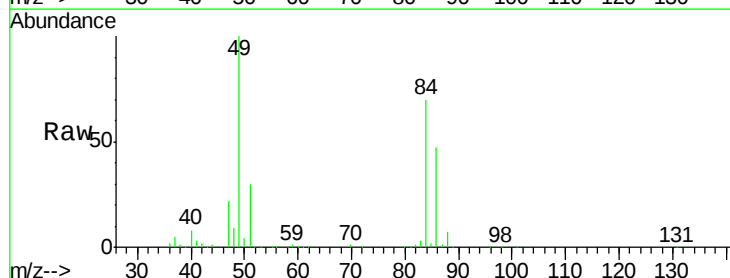
Ion Ratio Lower Upper

84 100

49 142.6 120.0 180.0

51 42.3 36.7 55.1

86 66.8 51.9 77.9

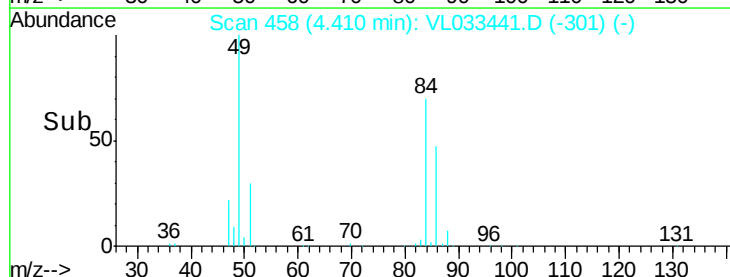
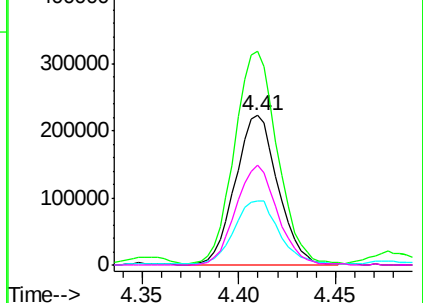


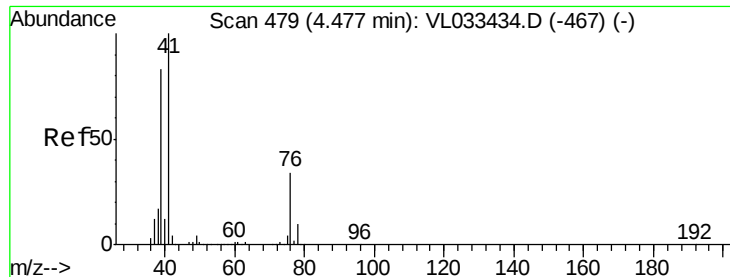
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





#21

Allyl Chloride

Concen: 9.472 ppbv

RT: 4.48 min Scan# 480

Delta R.T. 0.00 min

Lab File: VL033441.D

Acq: 25 Mar 2019 17:22

Instrument :

MSVOA_L

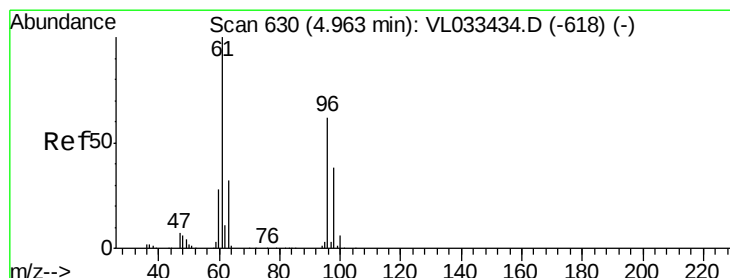
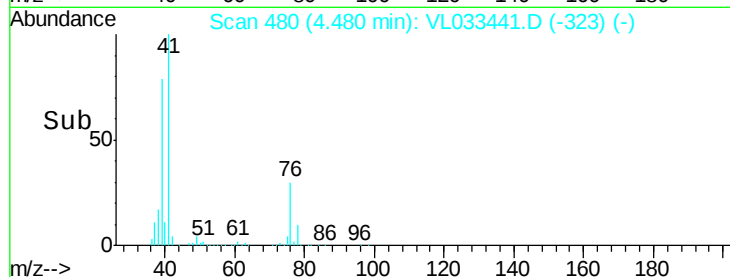
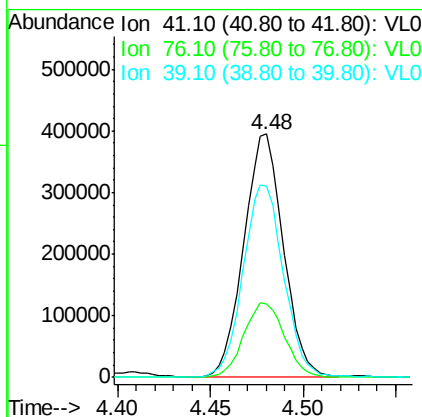
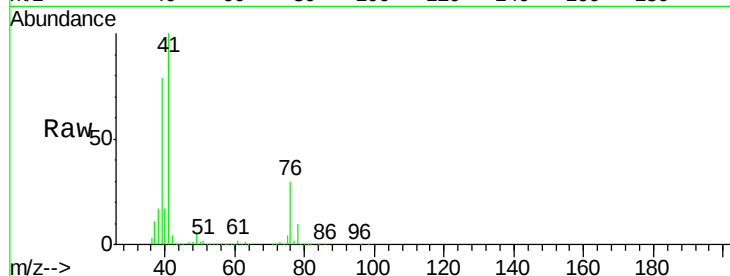
ClientSampleId :

ICVVL032519

Tgt Ion:	41	Resp:	584332
Ion	Ratio	Lower	Upper
41	100		
76	31.6	25.4	38.2
39	81.4	65.3	97.9

Manual Integrations
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4/1/2019 1:22:50 AM



#22

trans-1,2-Dichloroethene

Concen: 9.327 ppbv

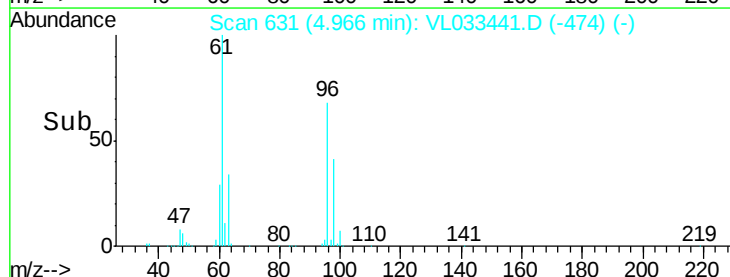
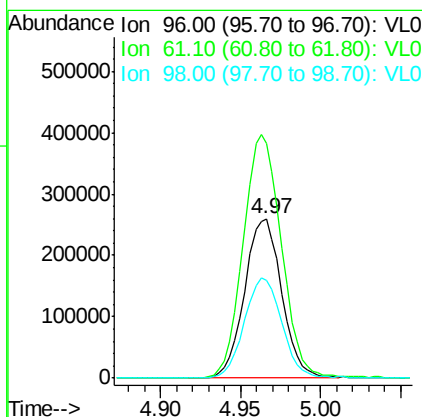
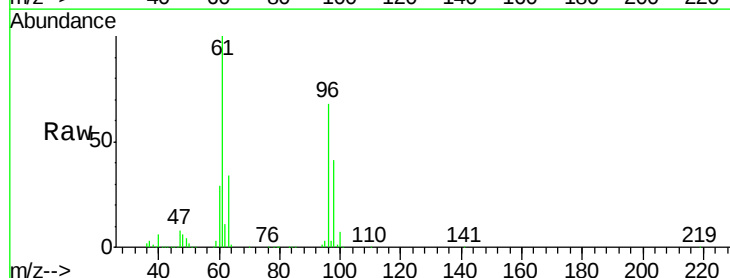
RT: 4.97 min Scan# 631

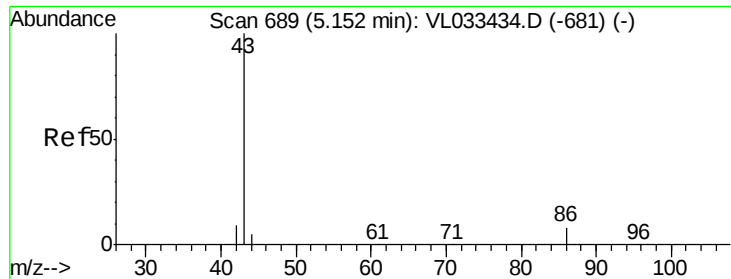
Delta R.T. 0.00 min

Lab File: VL033441.D

Acq: 25 Mar 2019 17:22

Tgt Ion:	96	Resp:	409579
Ion	Ratio	Lower	Upper
96	100		
61	147.5	128.9	193.3
98	61.0	49.5	74.3





#23

Vinyl Acetate

Concen: 9.754 ppbv

RT: 5.16 min Scan# 690

Delta R.T. 0.00 min

Lab File: VL033441.D

Acq: 25 Mar 2019 17:22

Instrument :

MSVOA_L

ClientSampleId :

ICVVL032519

Tgt Ion: 43 Resp: 1354865

Ion Ratio Lower Upper

43 100

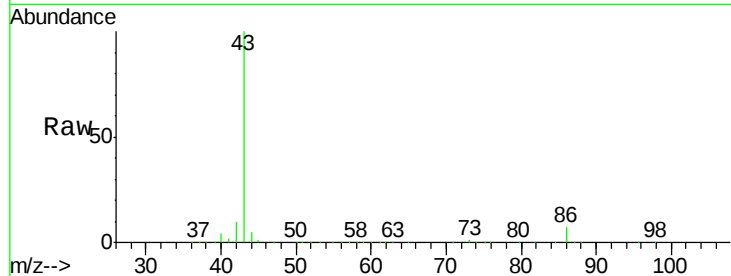
86 7.3 5.6 8.4

42 10.0 8.0 12.0

44 5.2 3.9 5.9

Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:22:50 AM

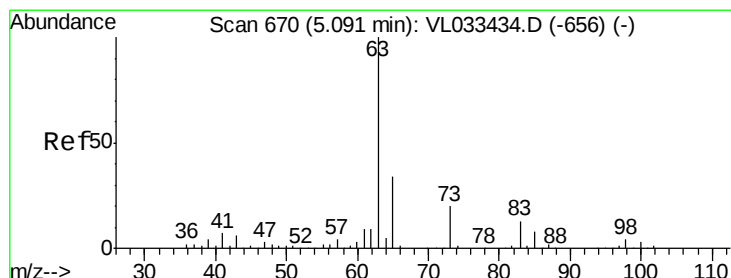
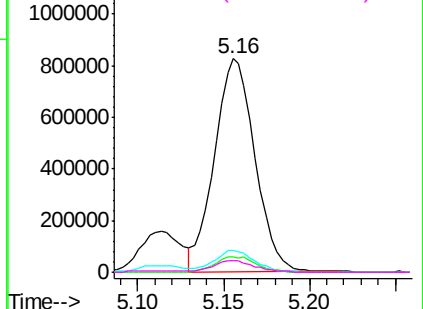
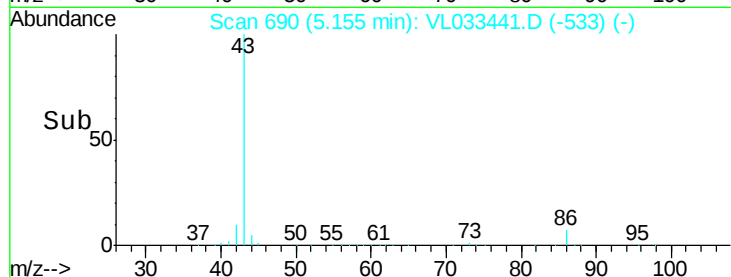


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 8.976 ppbv

RT: 5.09 min Scan# 670

Delta R.T. -0.00 min

Lab File: VL033441.D

Acq: 25 Mar 2019 17:22

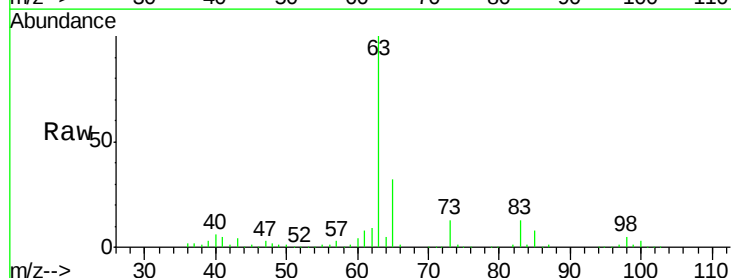
Tgt Ion: 63 Resp: 947095

Ion Ratio Lower Upper

63 100

98 4.7 2.2 6.6

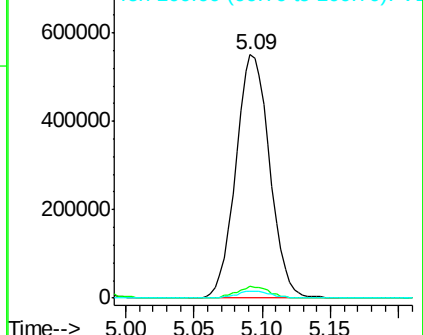
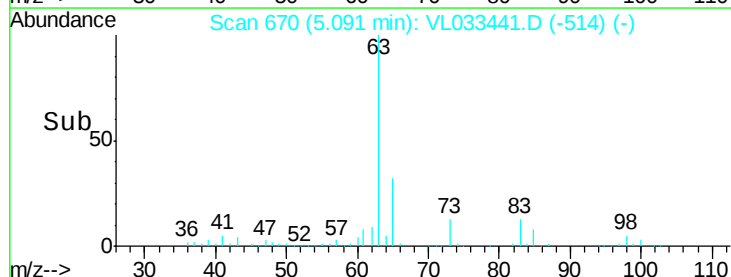
100 2.8 1.5 4.4

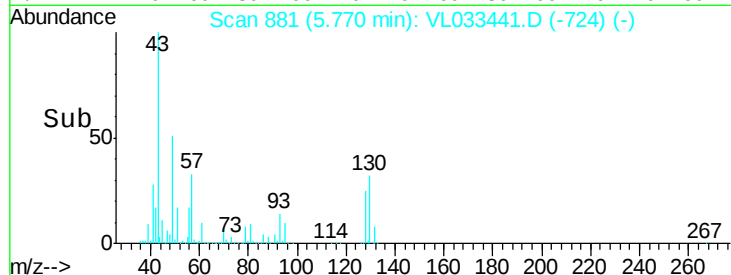
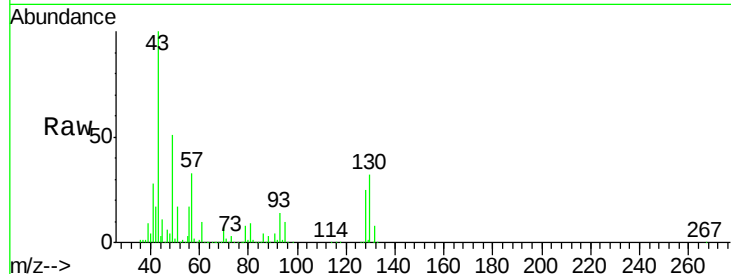
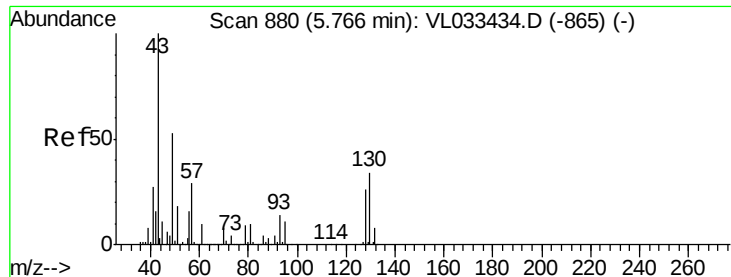


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

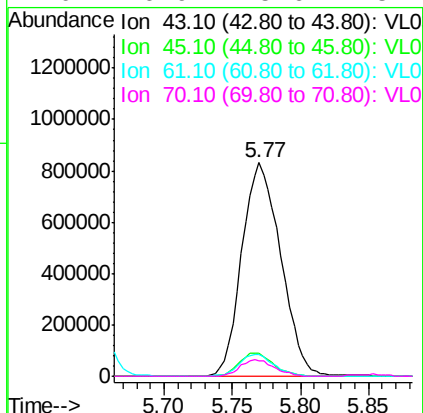
Ion 100.00 (99.70 to 100.70): VL0





#25
Ethyl Acetate
Concen: 9.085 ppbv
RT: 5.77 min Scan# 881
Delta R.T. 0.00 min
Lab File: VL033441.D
Acq: 25 Mar 2019 17:22

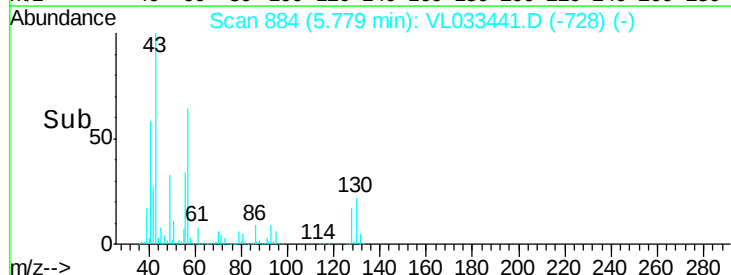
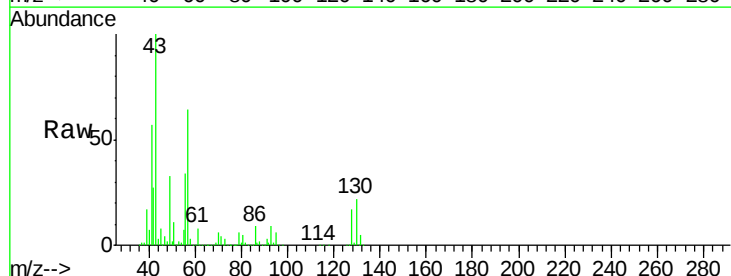
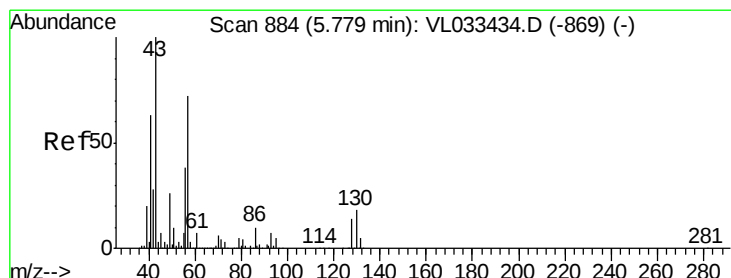
Tgt Ion	Ratio	Lower	Upper
43	100		
45	9.7	7.8	11.6
61	9.3	7.3	10.9
70	6.9	5.6	8.4



Instrument :
MSVOA_L
ClientSampleId :
ICVVL032519

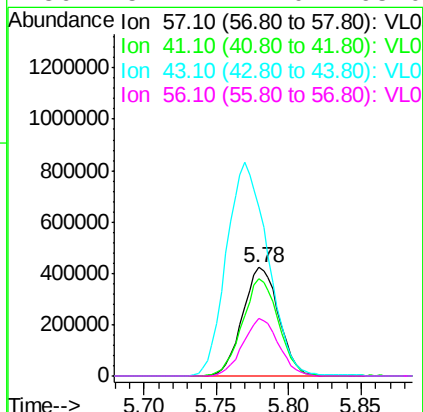
Manual Integrations
APPROVED

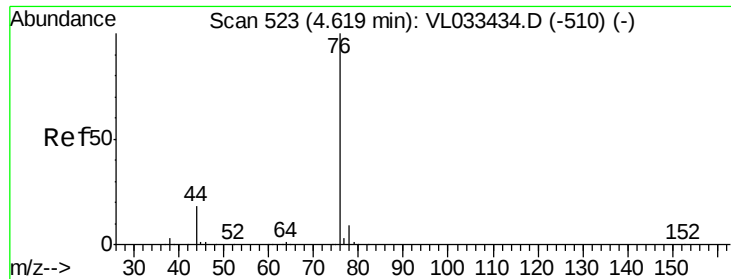
MMDadoda
4/1/2019 1:22:50 AM



#26
Hexane
Concen: 9.120 ppbv
RT: 5.78 min Scan# 884
Delta R.T. 0.00 min
Lab File: VL033441.D
Acq: 25 Mar 2019 17:22

Tgt Ion	Ratio	Lower	Upper
57	100		
41	89.3	70.7	106.1
43	225.3	182.6	274.0
56	52.7	42.0	63.0





#27

Carbon Disulfide

Concen: 10.072 ppbv

RT: 4.62 min Scan# 524

Delta R.T. 0.00 min

Lab File: VL033441.D

Acq: 25 Mar 2019 17:22

Instrument :

MSVOA_L

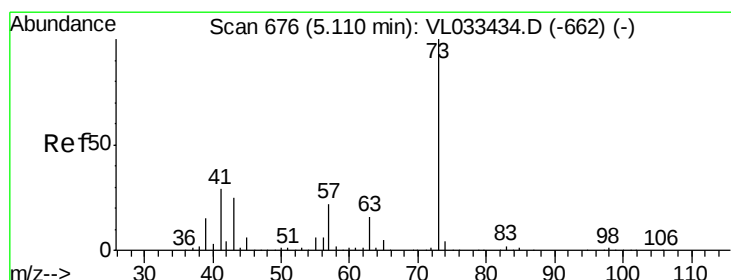
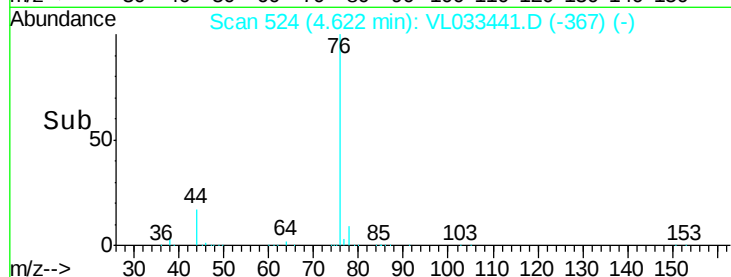
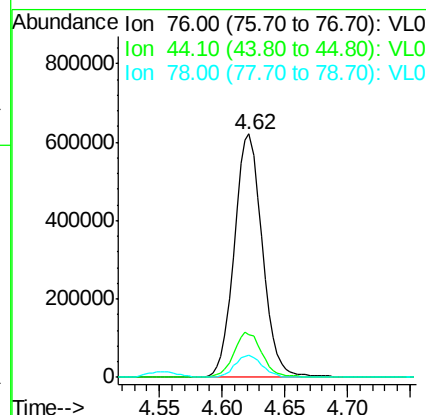
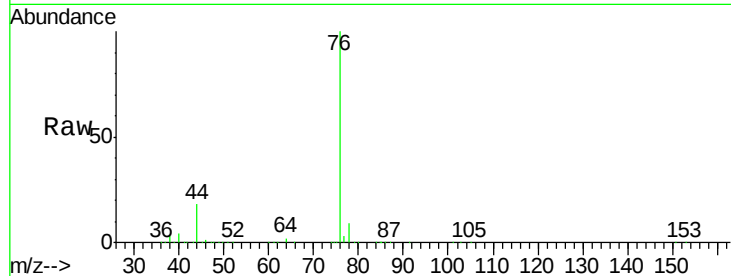
ClientSampleId :

ICVVL032519

Tgt Ion:	76	Resp:	964241
Ion Ratio	Lower	Upper	
76	100		
44	18.2	14.8	22.2
78	8.9	7.6	11.4

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#28

Methyl tert-Butyl Ether

Concen: 9.616 ppbv

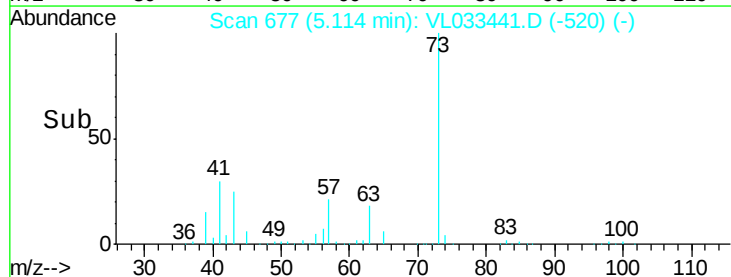
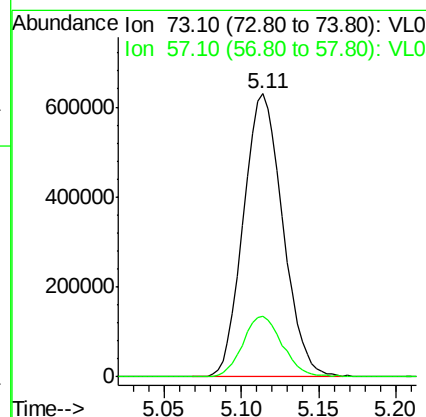
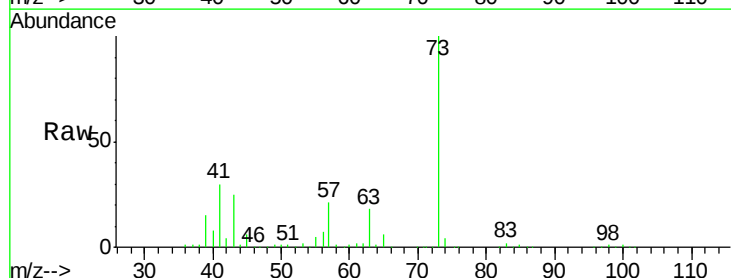
RT: 5.11 min Scan# 677

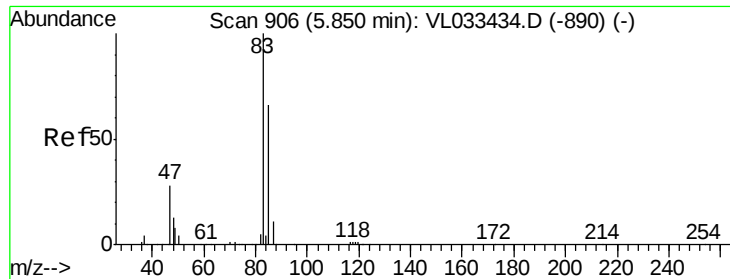
Delta R.T. 0.00 min

Lab File: VL033441.D

Acq: 25 Mar 2019 17:22

Tgt Ion:	73	Resp:	1115040
Ion Ratio	Lower	Upper	
73	100		
57	21.8	17.4	26.2





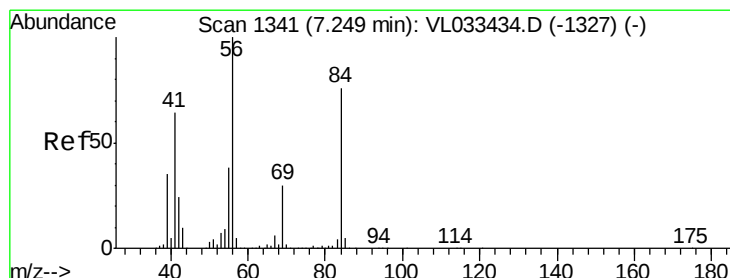
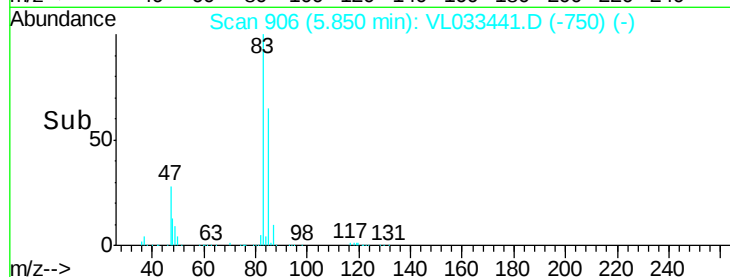
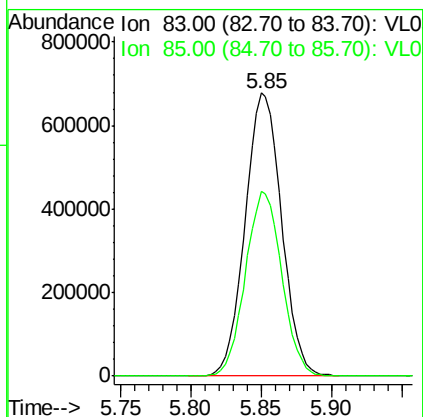
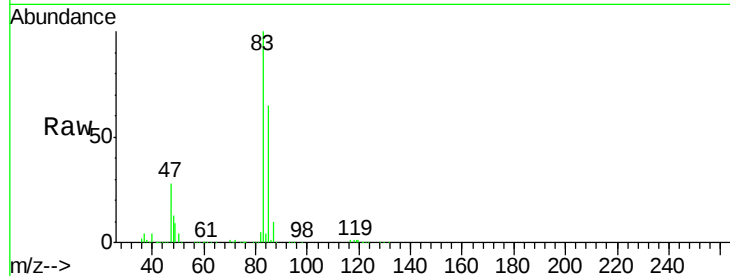
#29
Chloroform
Concen: 8.908 ppbv
RT: 5.85 min Scan# 906
Delta R.T. -0.00 min
Lab File: VL033441.D
Acq: 25 Mar 2019 17:22

Instrument :
MSVOA_L
ClientSampleId :
ICVVL032519

Tgt Ion: 83 Resp: 1229335
Ion Ratio Lower Upper
83 100
85 65.1 52.6 79.0

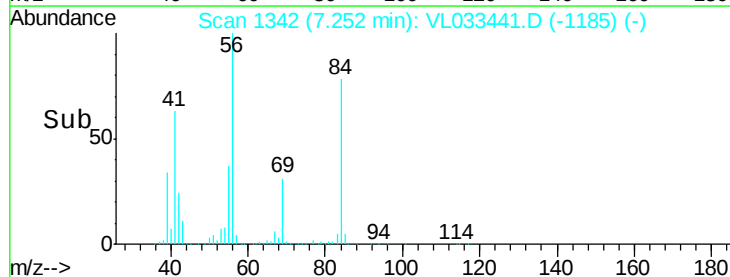
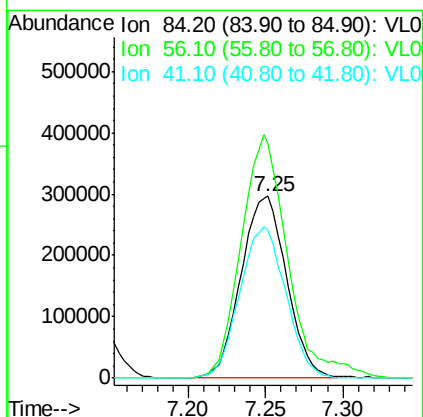
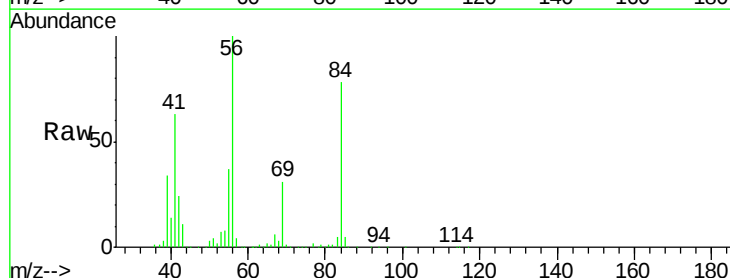
Manual Integrations
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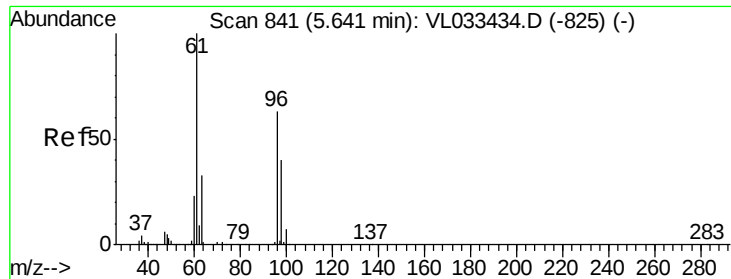
MMDadoda
4/1/2019 1:22:50 AM



#30
Cyclohexane
Concen: 9.558 ppbv
RT: 7.25 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VL033441.D
Acq: 25 Mar 2019 17:22

Tgt Ion: 84 Resp: 608719
Ion Ratio Lower Upper
84 100
56 136.8 109.7 164.5
41 84.1 68.2 102.2





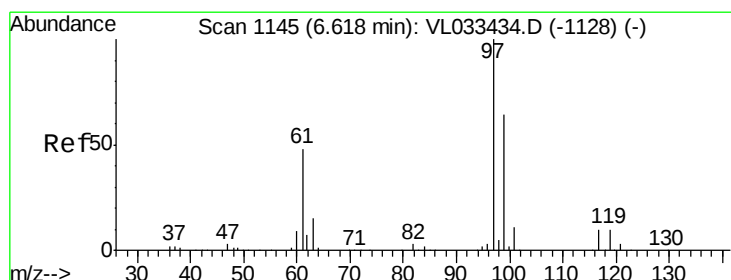
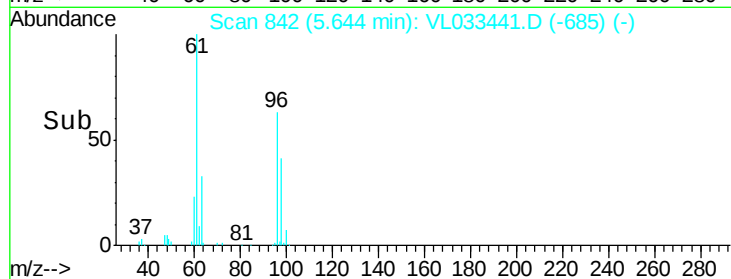
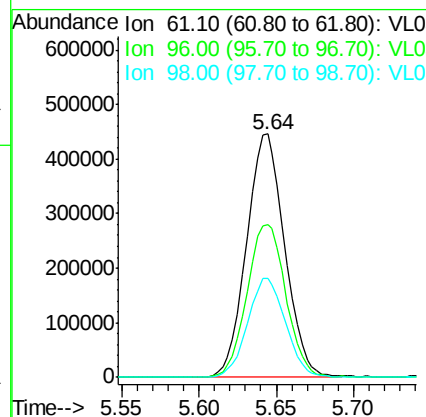
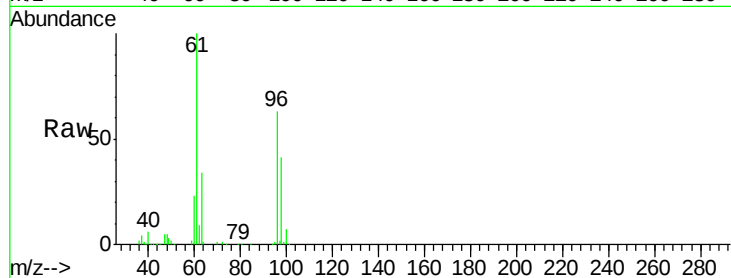
#31
 cis-1,2-Dichloroethene
 Concen: 9.548 ppbv
 RT: 5.64 min Scan# 842
 Delta R.T. 0.00 min
 Lab File: VL033441.D
 Acq: 25 Mar 2019 17:22

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL032519

Tgt Ion	Ratio	Lower	Upper
61	100		
96	62.7	50.6	76.0
98	40.8	32.2	48.2

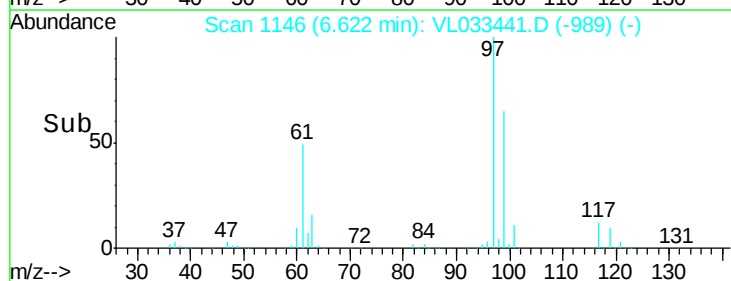
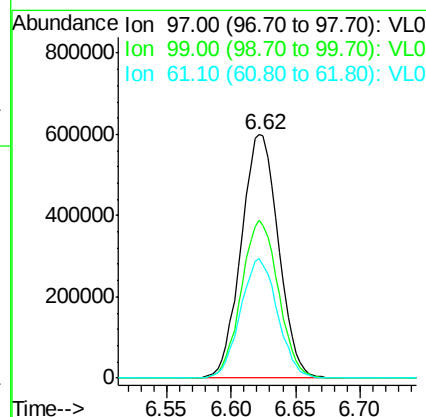
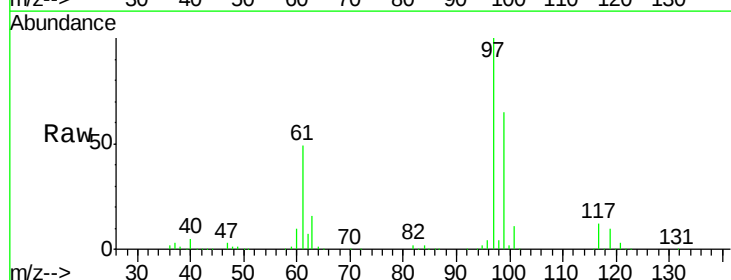
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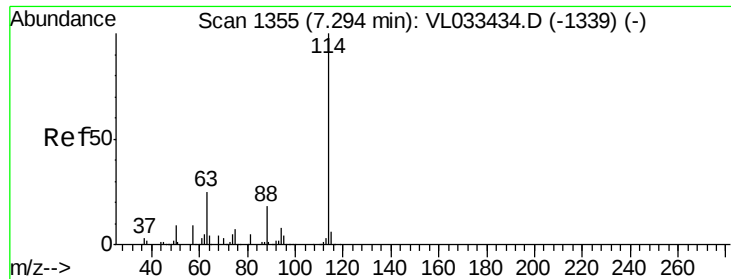
MMDadoda
 4/1/2019 1:22:50 AM



#32
 1,1,1-Trichloroethane
 Concen: 9.179 ppbv
 RT: 6.62 min Scan# 1146
 Delta R.T. 0.00 min
 Lab File: VL033441.D
 Acq: 25 Mar 2019 17:22

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.5	77.3
61	48.7	38.8	58.2





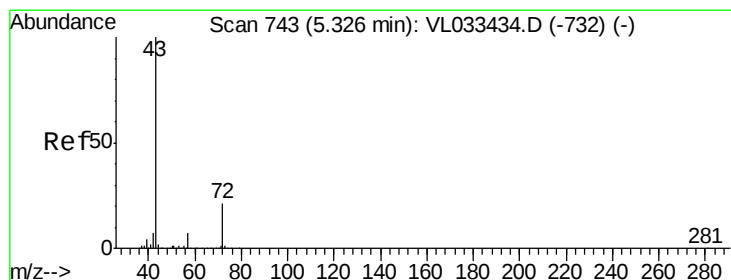
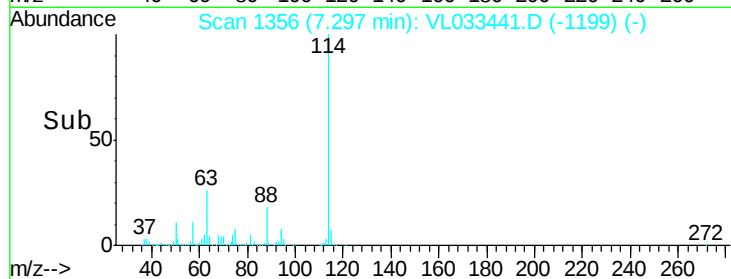
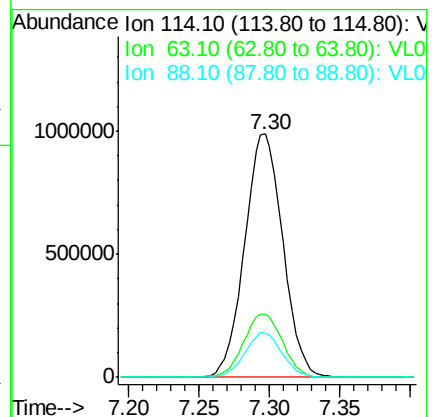
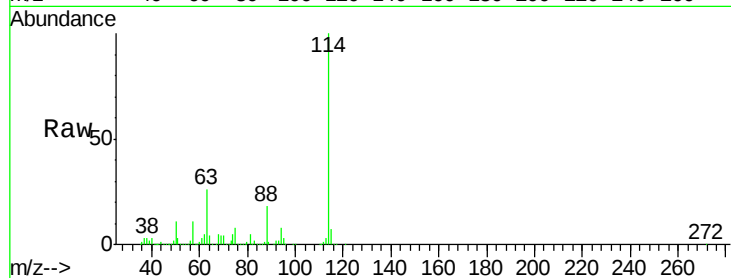
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1356
 Delta R.T. 0.00 min
 Lab File: VL033441.D
 Acq: 25 Mar 2019 17:22

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL032519

Tgt Ion	Ratio	Lower	Upper
114	100		
63	27.1	21.5	32.3
88	18.0	14.5	21.7

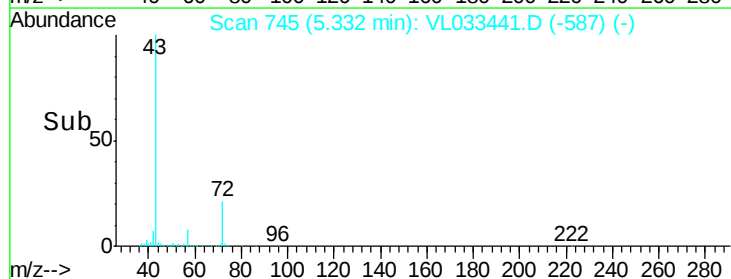
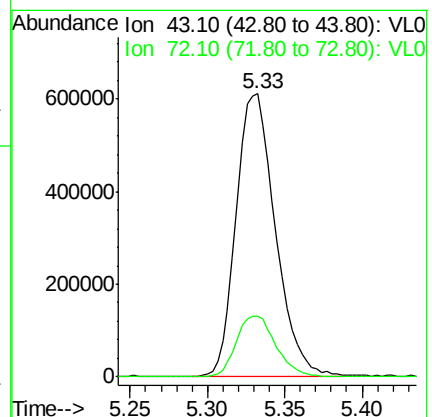
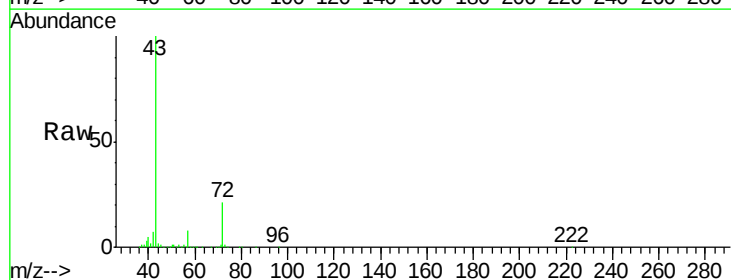
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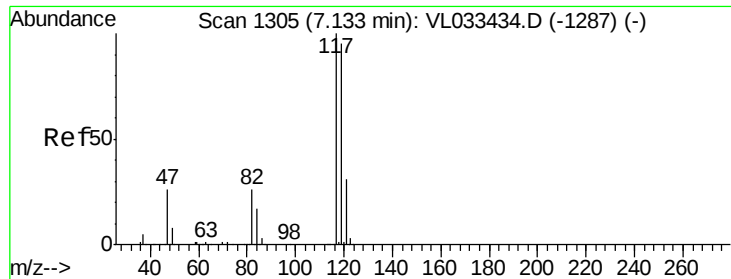
MMDadoda
 4/1/2019 1:22:50 AM



#34
 2-Butanone
 Concen: 9.519 ppbv
 RT: 5.33 min Scan# 745
 Delta R.T. 0.01 min
 Lab File: VL033441.D
 Acq: 25 Mar 2019 17:22

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.9	17.4	26.2





#35

Carbon Tetrachloride

Concen: 9.635 ppbv

RT: 7.14 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VL033441.D

Acq: 25 Mar 2019 17:22

Instrument :

MSVOA_L

ClientSampleId :

ICVVL032519

Tgt Ion:117 Resp: 1280409

Ion Ratio Lower Upper

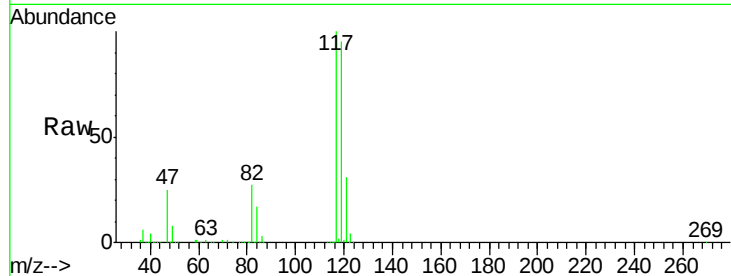
117 100

119 95.3 75.8 113.8

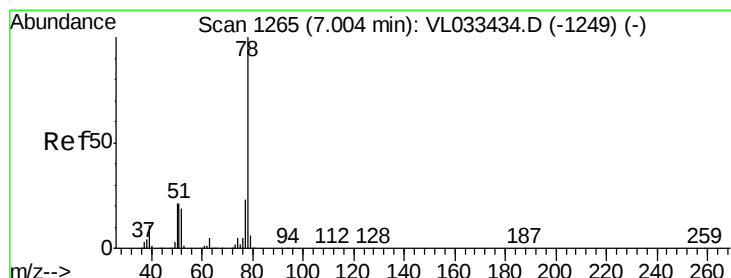
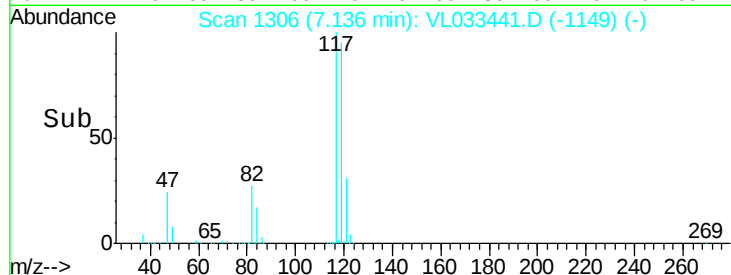
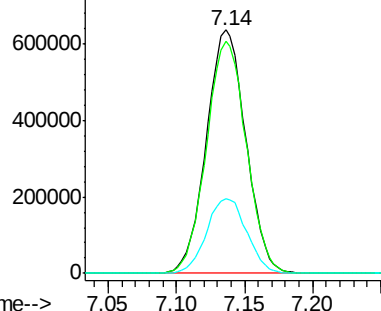
121 30.6 24.7 37.1

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MMDadoda
4/1/2019 1:22:50 AM



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: 9.644 ppbv

RT: 7.01 min Scan# 1266

Delta R.T. 0.00 min

Lab File: VL033441.D

Acq: 25 Mar 2019 17:22

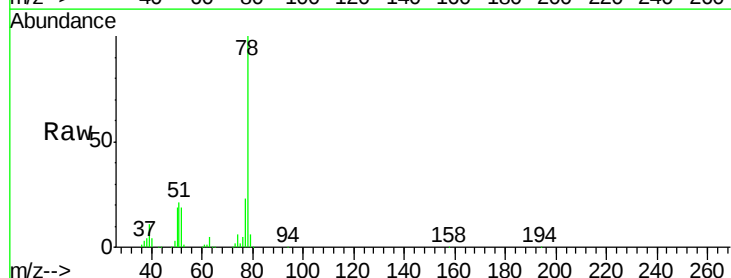
Tgt Ion: 78 Resp: 1518228

Ion Ratio Lower Upper

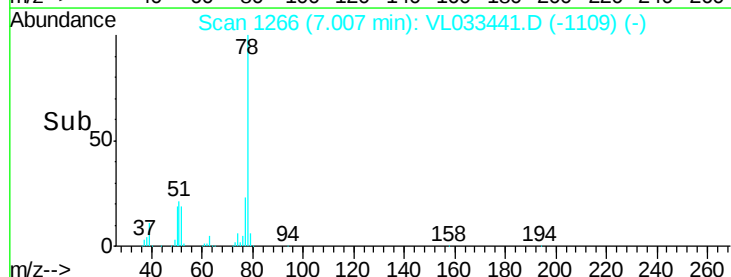
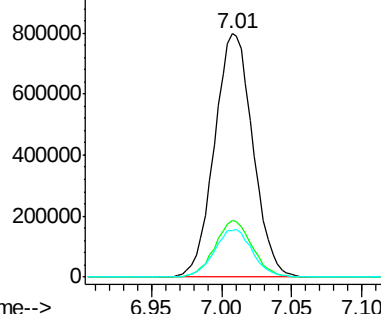
78 100

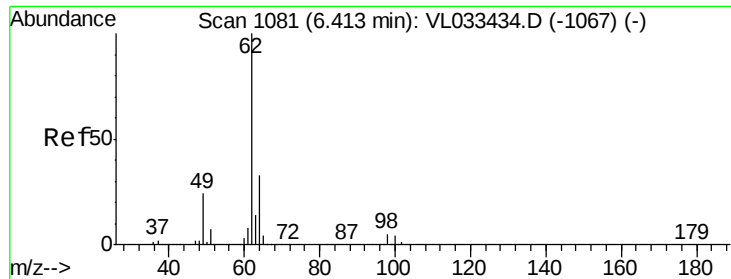
77 23.1 18.1 27.1

50 19.3 16.7 25.1



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





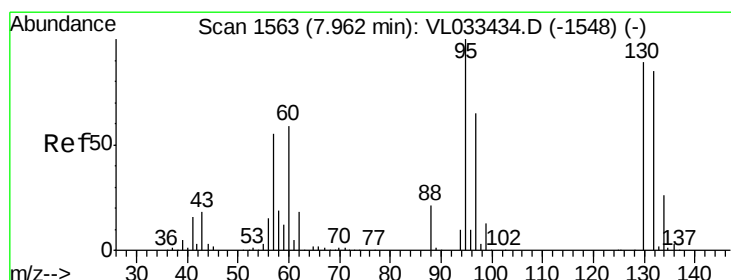
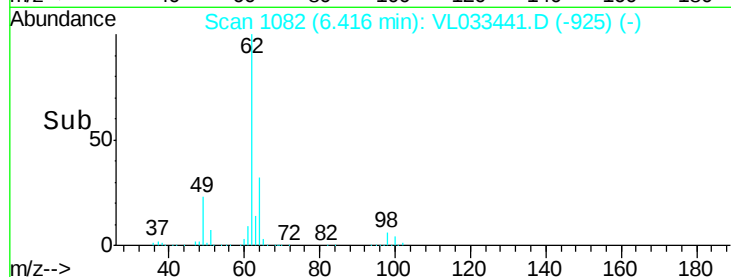
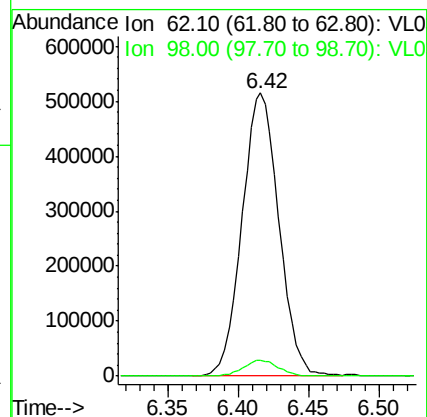
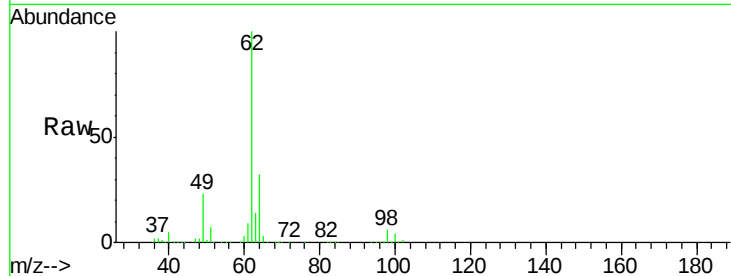
#37
 1,2-Dichloroethane
 Concen: 8.936 ppbv
 RT: 6.42 min Scan# 1082
 Delta R.T. 0.00 min
 Lab File: VL033441.D
 Acq: 25 Mar 2019 17:22

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL032519

Tgt Ion	Ratio	Resp	Lower	Upper
62	100	942947		
98	5.5	4.4	6.6	

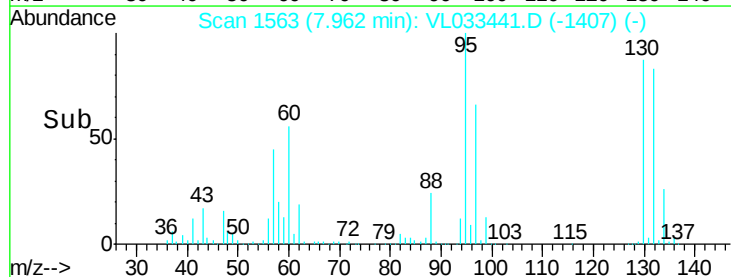
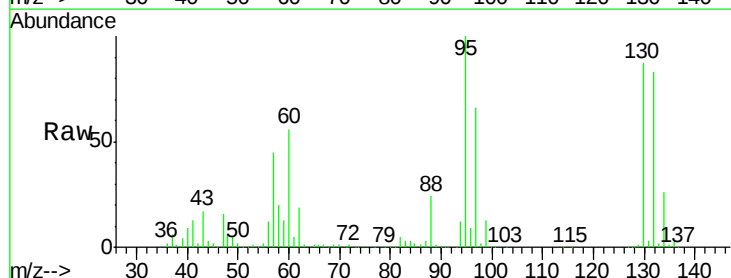
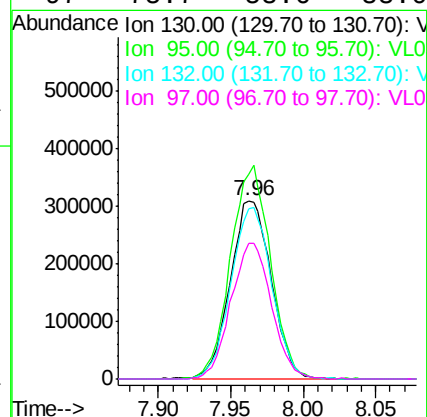
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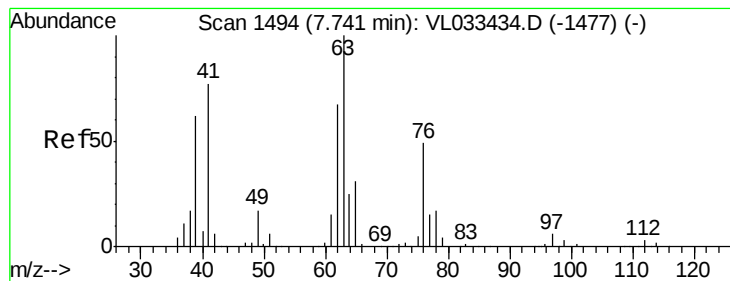
MMDadoda
 4/1/2019 1:22:50 AM



#38
 Trichloroethene
 Concen: 10.243 ppbv
 RT: 7.96 min Scan# 1563
 Delta R.T. -0.00 min
 Lab File: VL033441.D
 Acq: 25 Mar 2019 17:22

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	606871		
95	115.0	89.8	134.8	
132	95.6	76.6	115.0	
97	75.7	58.6	88.0	





#39

1,2-Dichloropropane

Concen: 9.251 ppbv

RT: 7.74 min Scan# 1494

Delta R.T. 0.00 min

Lab File: VL033441.D

Acq: 25 Mar 2019 17:22

Instrument :

MSVOA_L

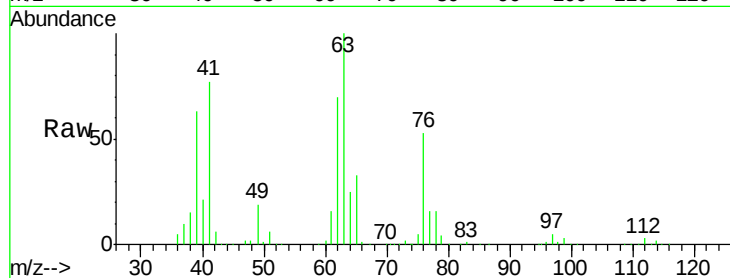
ClientSampleId :

ICVVL032519

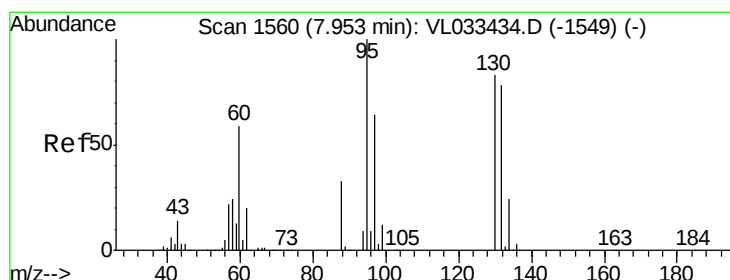
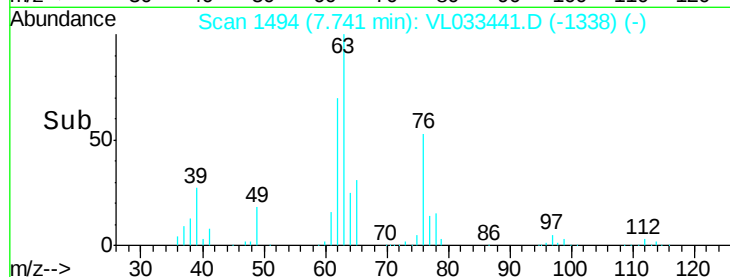
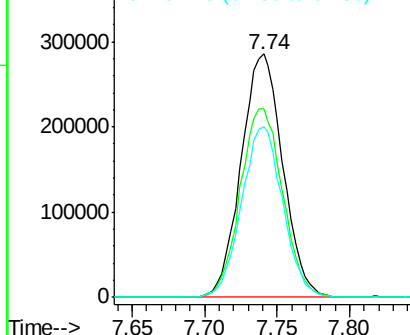
Tgt Ion:	63	Resp:	570490
Ion	Ratio	Lower	Upper
63	100		
41	77.4	61.2	91.8
62	70.2	54.0	81.0

Manual Integrations
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Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 9.182 ppbv m

RT: 7.95 min Scan# 1560

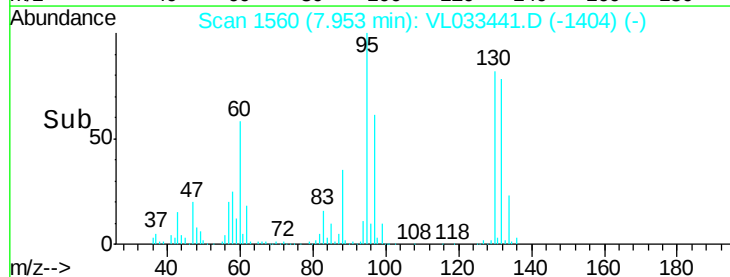
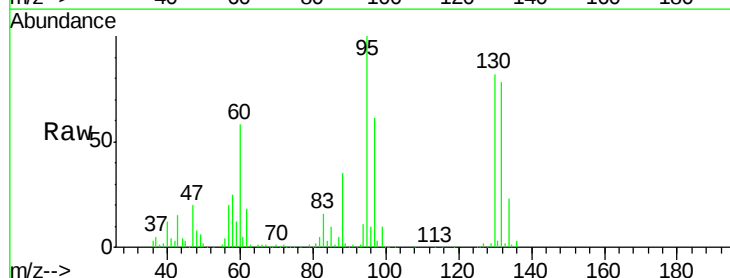
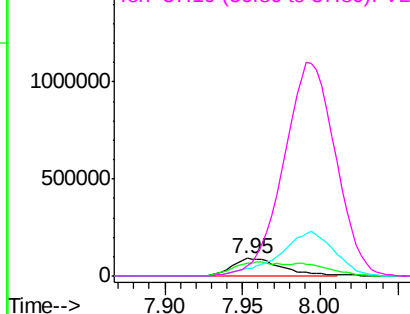
Delta R.T. 0.00 min

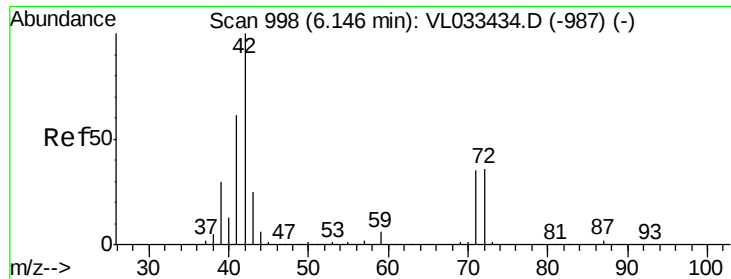
Lab File: VL033441.D

Acq: 25 Mar 2019 17:22

Tgt Ion:	88	Resp:	201949
Ion	Ratio	Lower	Upper
88	100		
58	0.0	105.6	158.4#
43	0.0	216.7	325.1#
57	0.0	975.0	1462.4#

Abundance Ion 88.10 (87.80 to 88.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





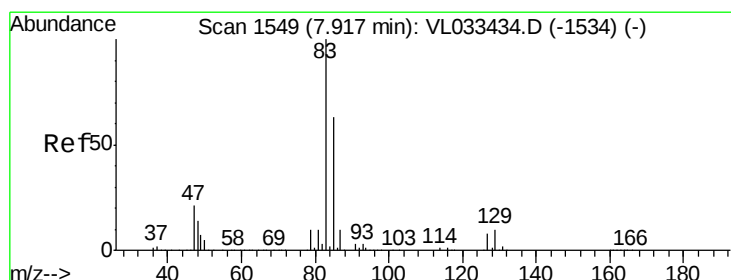
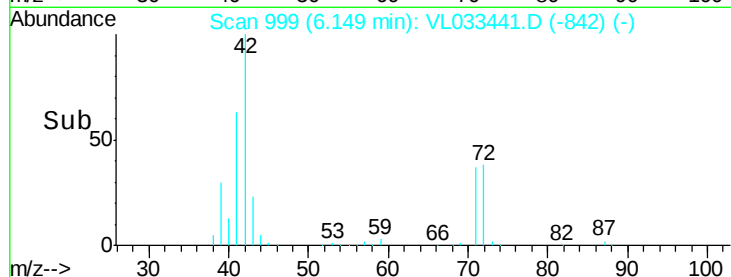
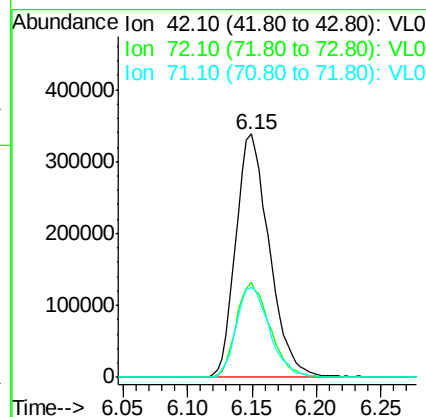
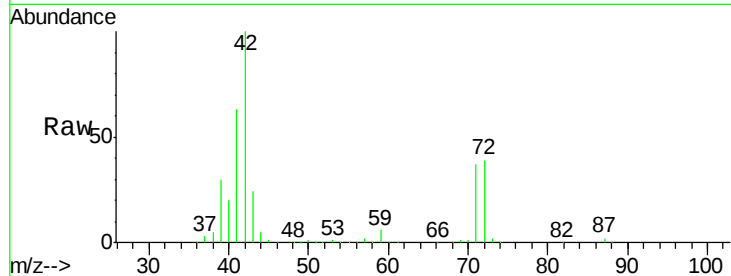
#41
Tetrahydrofuran
Concen: 9.883 ppbv
RT: 6.15 min Scan# 999
Delta R.T. 0.00 min
Lab File: VL033441.D
Acq: 25 Mar 2019 17:22

Instrument :
MSVOA_L
ClientSampleId :
ICVVL032519

Tgt Ion	Ratio	Lower	Upper
42	100		
72	39.1	30.2	45.2
71	37.1	29.4	44.2

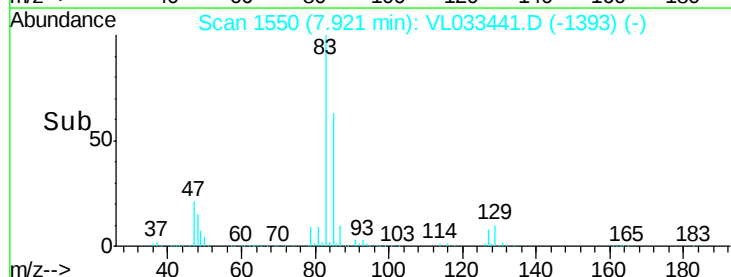
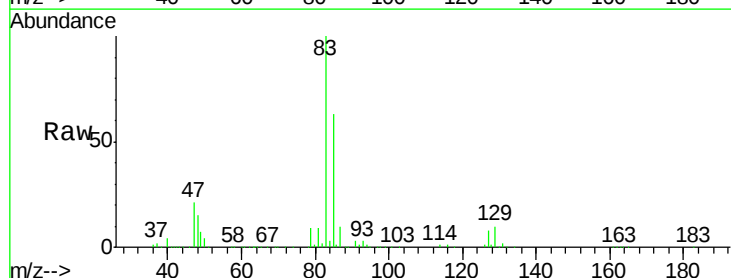
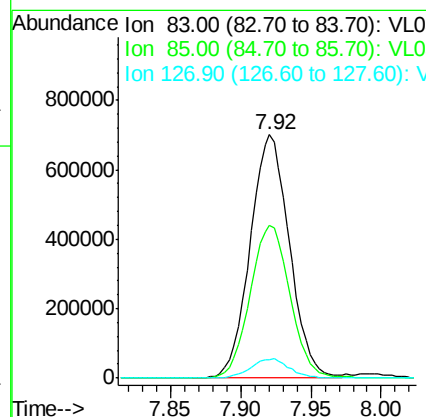
Manual Integrations
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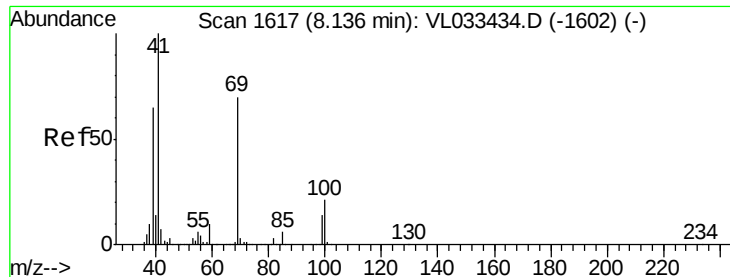
MMDadoda
4/1/2019 1:22:50 AM



#42
Bromodichloromethane
Concen: 9.514 ppbv
RT: 7.92 min Scan# 1550
Delta R.T. 0.00 min
Lab File: VL033441.D
Acq: 25 Mar 2019 17:22

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.8	50.7	76.1
127	7.7	6.6	9.8





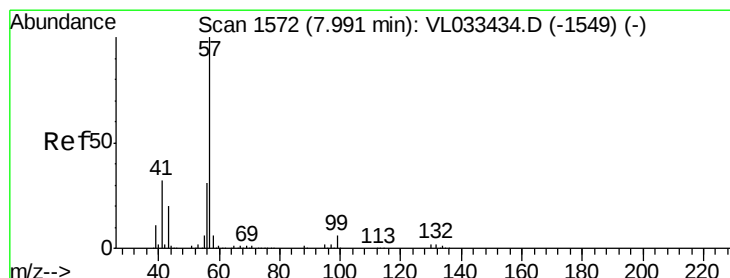
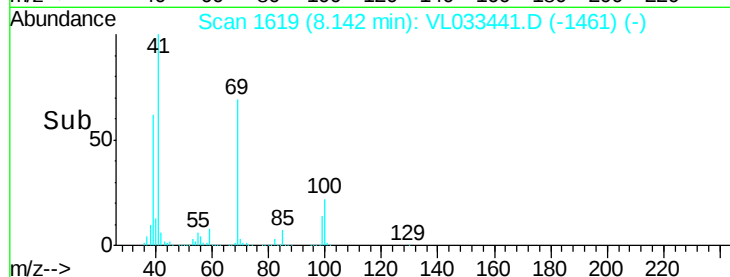
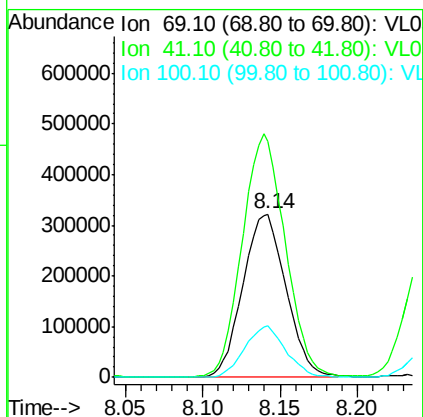
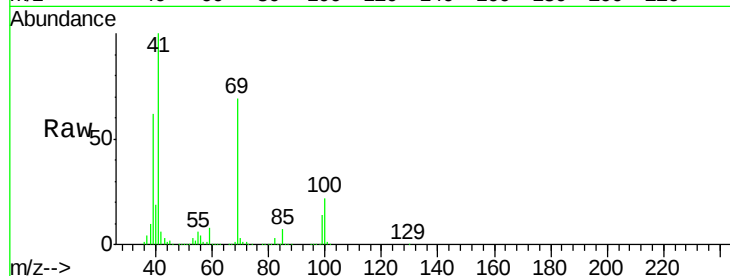
#43
Methyl Methacrylate
Concen: 9.799 ppbv
RT: 8.14 min Scan# 1619
Delta R.T. 0.01 min
Lab File: VL033441.D
Acq: 25 Mar 2019 17:22

Instrument :
MSVOA_L
ClientSampleId :
ICVVL032519

Tgt Ion	Ratio	Lower	Upper
69	100		
41	148.1	116.6	174.8
100	30.4	24.4	36.6

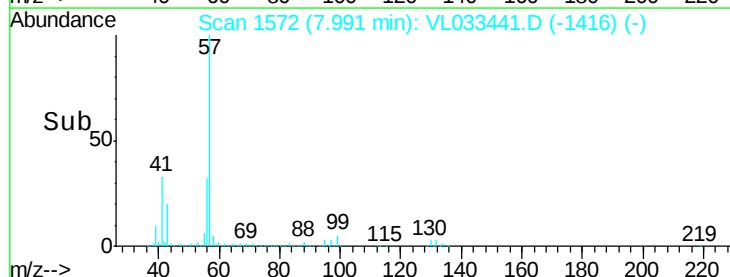
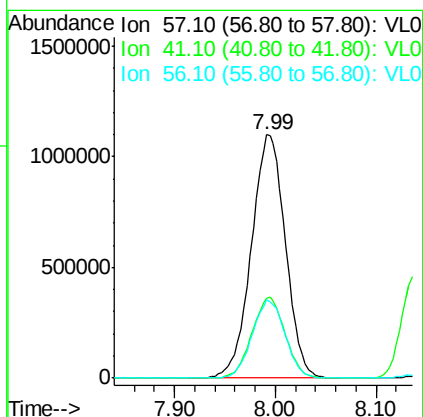
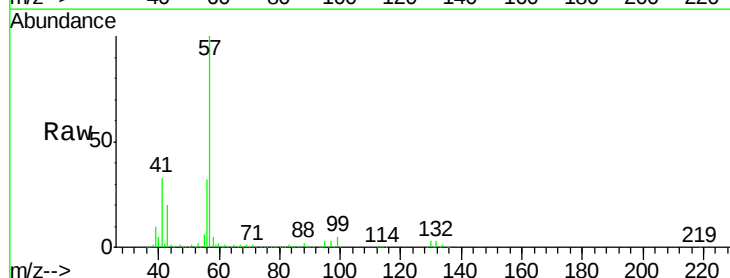
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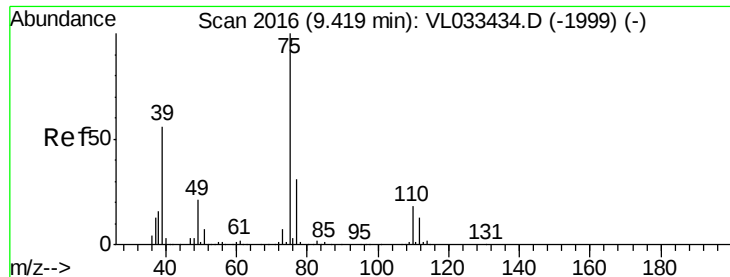
MMDadoda
4/1/2019 1:22:50 AM



#44
2,2,4-Trimethylpentane
Concen: 9.328 ppbv
RT: 7.99 min Scan# 1572
Delta R.T. 0.00 min
Lab File: VL033441.D
Acq: 25 Mar 2019 17:22

Tgt Ion	Ratio	Lower	Upper
57	100		
41	32.4	26.0	39.0
56	31.1	24.6	37.0





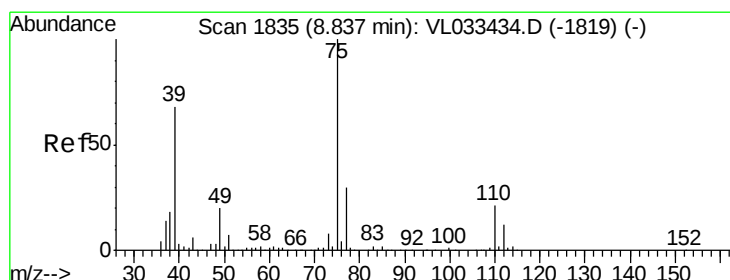
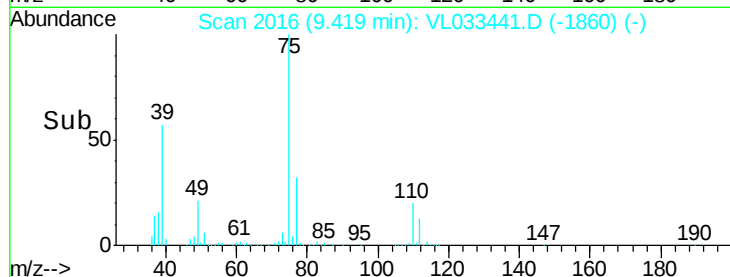
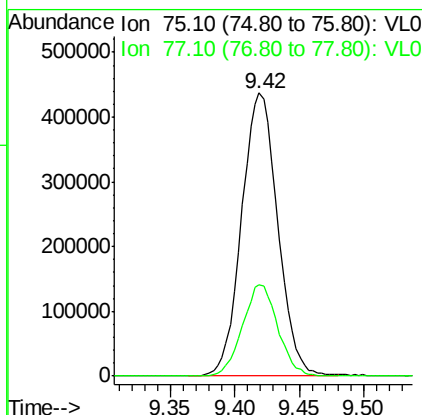
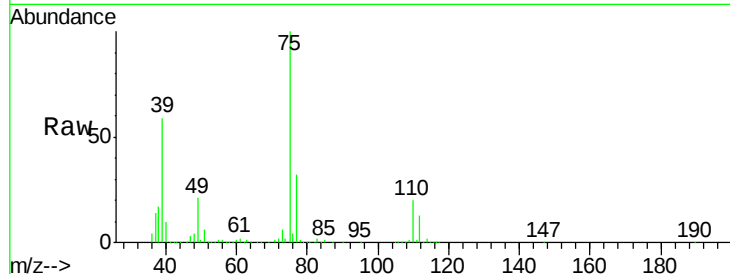
#45
t-1,3-Dichloropropene
Concen: 10.890 ppbv
RT: 9.42 min Scan# 2016
Delta R.T. -0.00 min
Lab File: VL033441.D
Acq: 25 Mar 2019 17:22

Instrument :
MSVOA_L
ClientSampleId :
ICVVL032519

Tgt Ion: 75 Resp: 854690
Ion Ratio Lower Upper
75 100
77 32.3 24.5 36.7

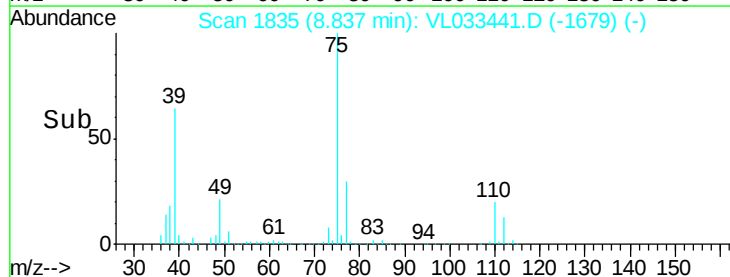
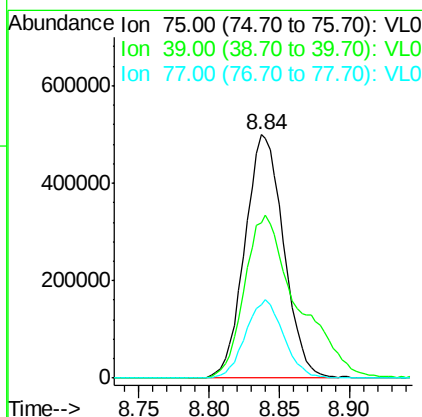
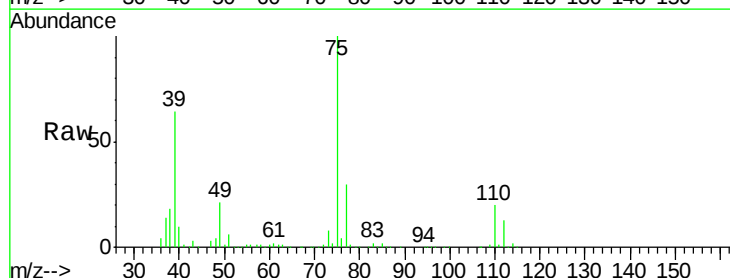
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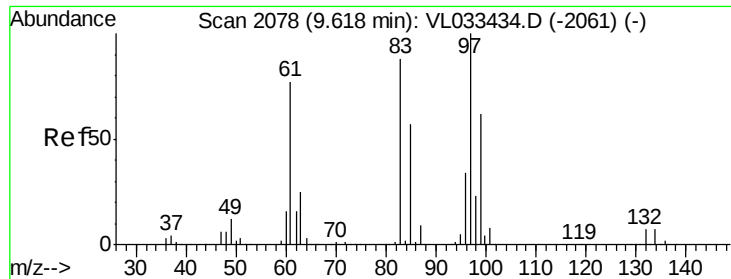
MMDadoda
4/1/2019 1:22:50 AM



#46
cis-1,3-Dichloropropene
Concen: 10.480 ppbv
RT: 8.84 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VL033441.D
Acq: 25 Mar 2019 17:22

Tgt Ion: 75 Resp: 960506
Ion Ratio Lower Upper
75 100
39 63.8 54.1 81.1
77 30.3 23.9 35.9





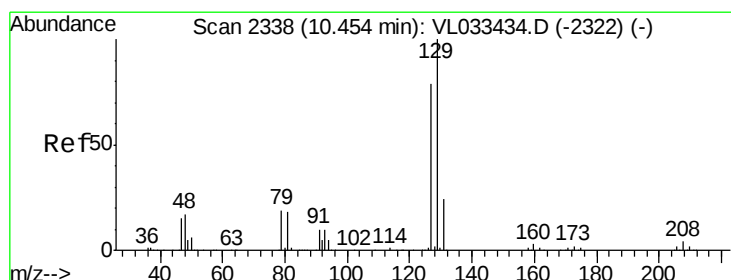
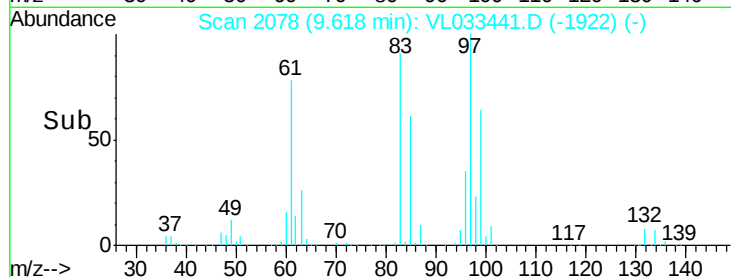
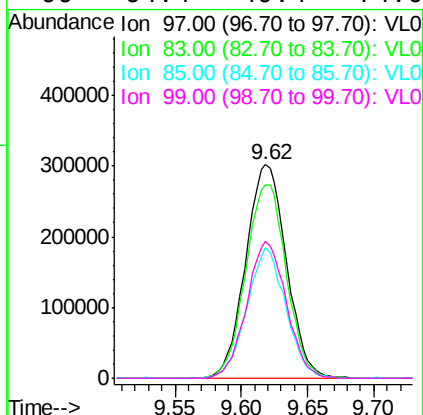
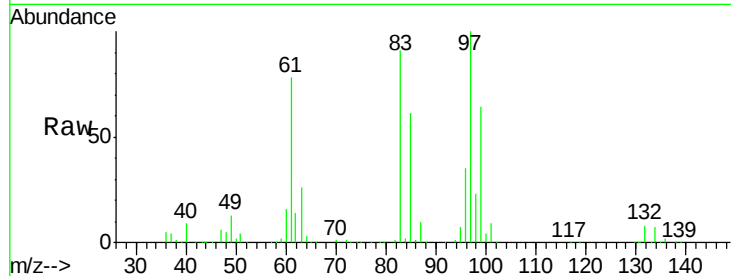
#47
 1,1,2-Trichloroethane
 Concen: 9.194 ppbv
 RT: 9.62 min Scan# 2078
 Delta R.T. -0.00 min
 Lab File: VL033441.D
 Acq: 25 Mar 2019 17:22

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL032519

Tgt Ion:	97	Resp:	643795
Ion	Ratio	Lower	Upper
97	100		
83	90.6	70.5	105.7
85	61.2	45.6	68.4
99	64.4	49.4	74.0

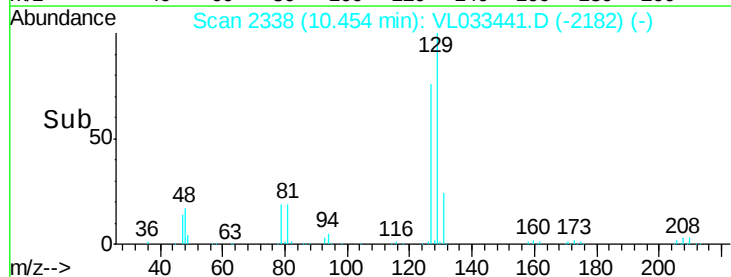
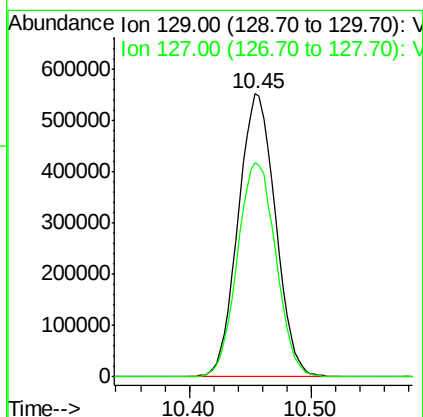
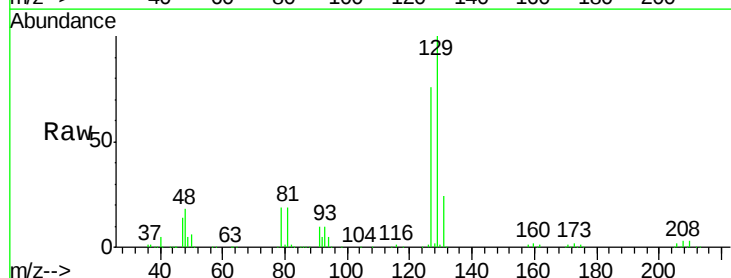
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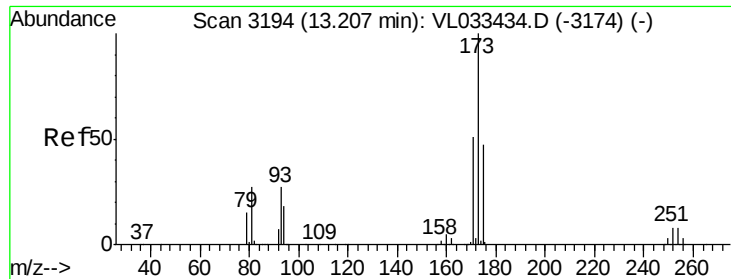
MMDadoda
 4/1/2019 1:22:50 AM



#48
 Dibromochloromethane
 Concen: 9.887 ppbv
 RT: 10.45 min Scan# 2338
 Delta R.T. -0.00 min
 Lab File: VL033441.D
 Acq: 25 Mar 2019 17:22

Tgt Ion:	129	Resp:	1167796
Ion	Ratio	Lower	Upper
129	100		
127	77.8	39.1	117.2





#49

Bromoform

Concen: 9.340 ppbv

RT: 13.21 min Scan# 3194

Delta R.T. -0.00 min

Lab File: VL033441.D

Acq: 25 Mar 2019 17:22

Instrument :

MSVOA_L

ClientSampleId :

ICVVL032519

Tgt Ion:173 Resp: 1053918

Ion Ratio Lower Upper

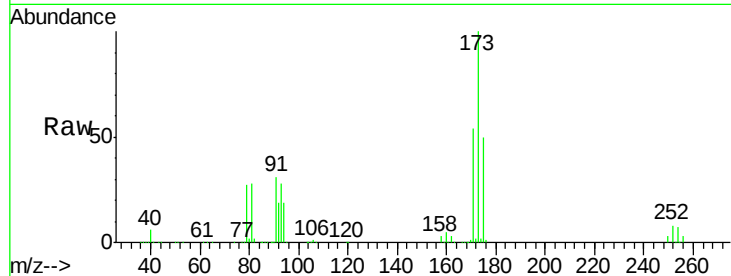
173 100

175 49.1 39.3 58.9

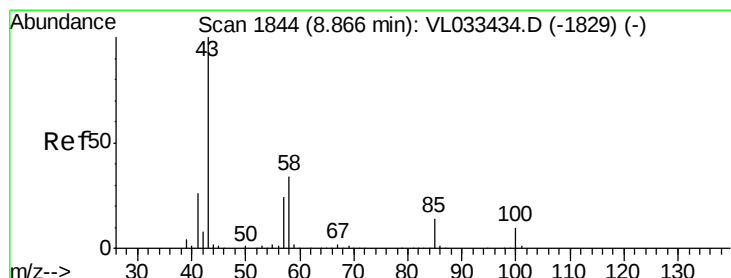
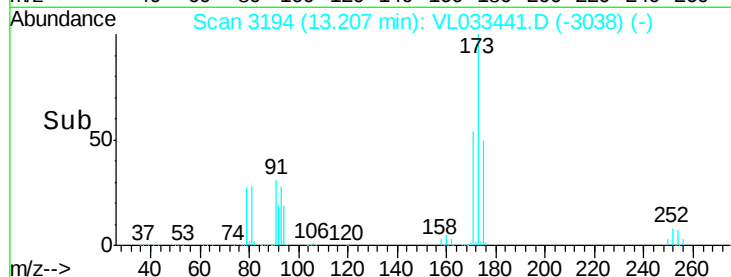
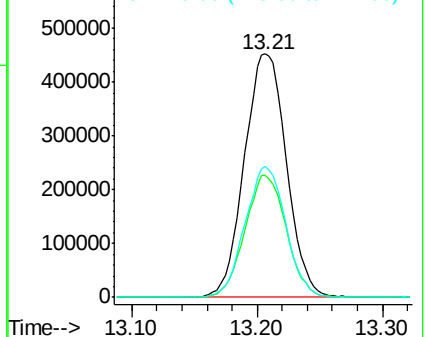
171 52.0 41.2 61.8

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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: 9.656 ppbv

RT: 8.87 min Scan# 1846

Delta R.T. 0.01 min

Lab File: VL033441.D

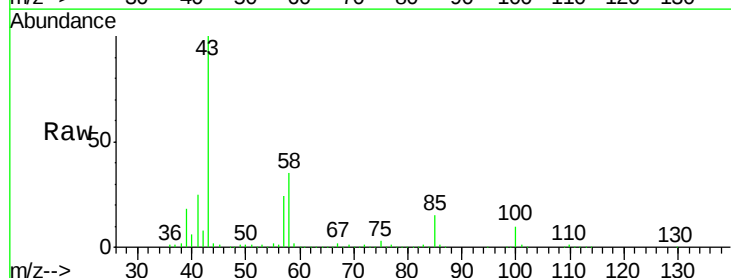
Acq: 25 Mar 2019 17:22

Tgt Ion: 43 Resp: 1593726

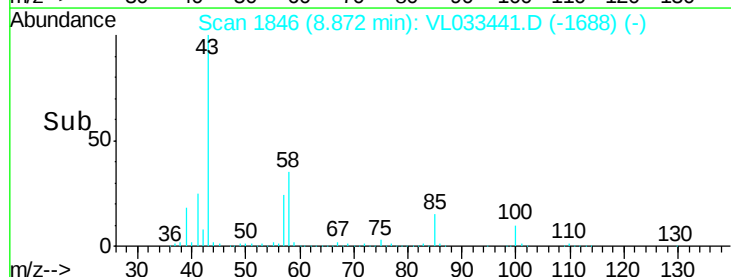
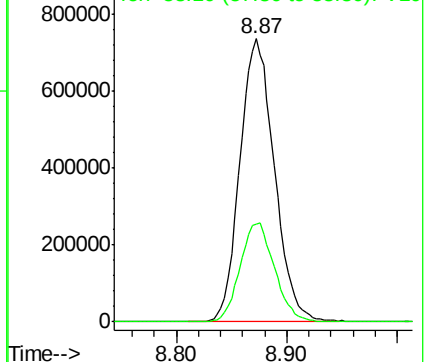
Ion Ratio Lower Upper

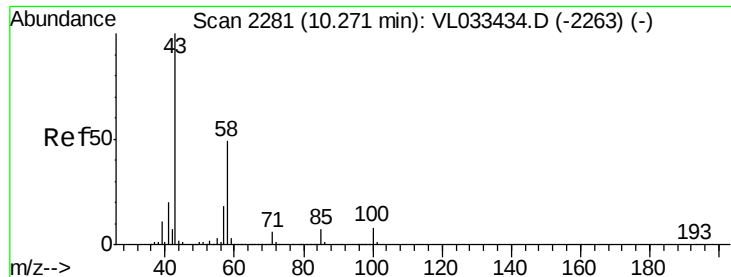
43 100

58 35.2 28.0 42.0



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 10.212 ppbv

RT: 10.27 min Scan# 2282

Delta R.T. 0.00 min

Lab File: VL033441.D

Acq: 25 Mar 2019 17:22

Instrument :

MSVOA_L

ClientSampleId :

ICVVL032519

Tgt Ion: 43 Resp: 1257272

Ion Ratio Lower Upper

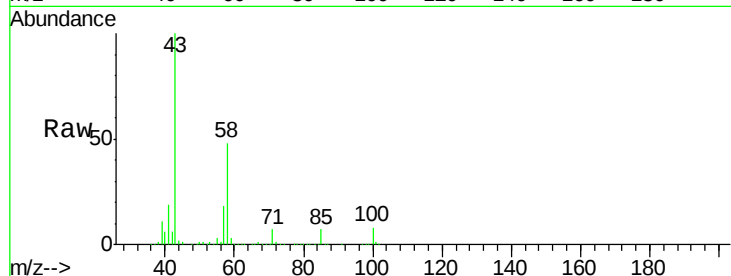
43 100

58 47.7 38.2 57.2

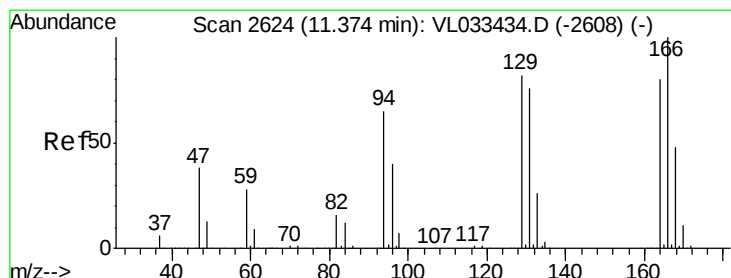
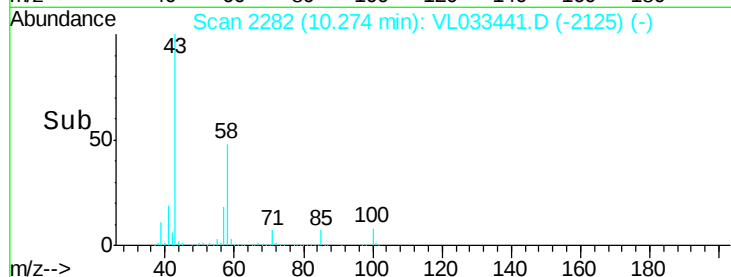
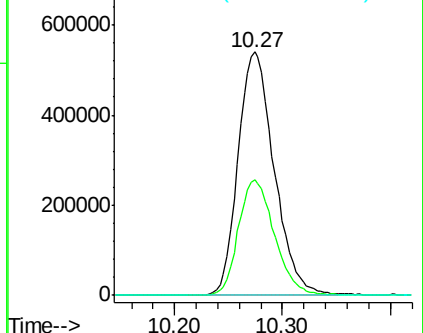
98 0.3 0.2 0.2#

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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: 9.934 ppbv

RT: 11.37 min Scan# 2624

Delta R.T. 0.00 min

Lab File: VL033441.D

Acq: 25 Mar 2019 17:22

Tgt Ion: 164 Resp: 590013

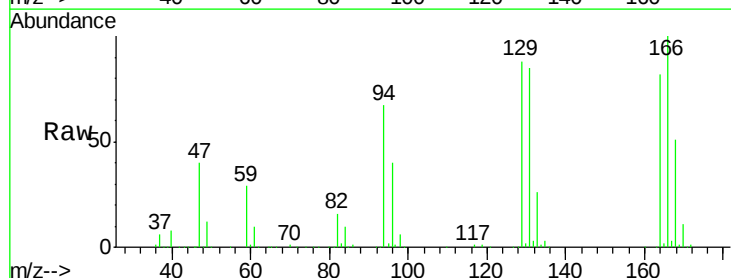
Ion Ratio Lower Upper

164 100

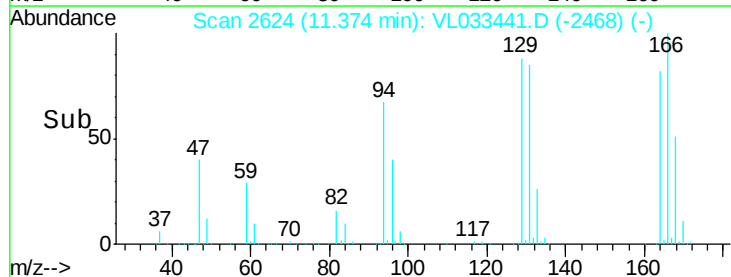
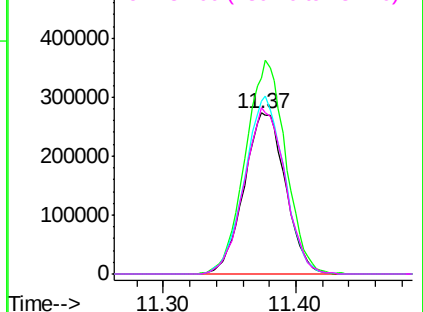
166 121.8 99.5 149.3

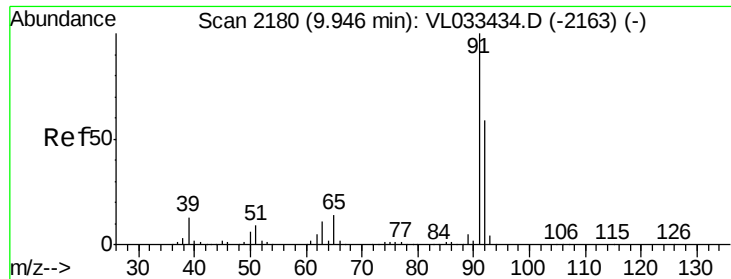
129 107.2 81.4 122.2

131 103.5 75.6 113.4



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: 10.009 ppbv

RT: 9.95 min Scan# 2181

Delta R.T. 0.00 min

Lab File: VL033441.D

Acq: 25 Mar 2019 17:22

Instrument :

MSVOA_L

ClientSampleId :

ICVVL032519

Tgt Ion: 91 Resp: 1831043

Ion Ratio Lower Upper

91 100

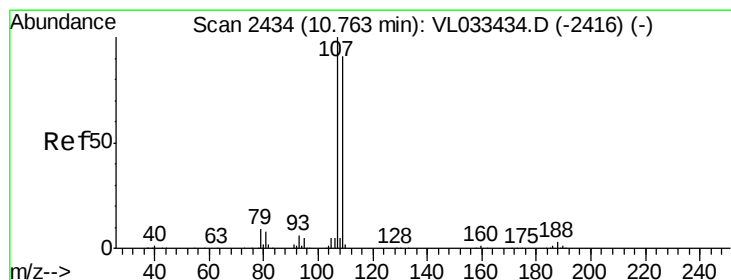
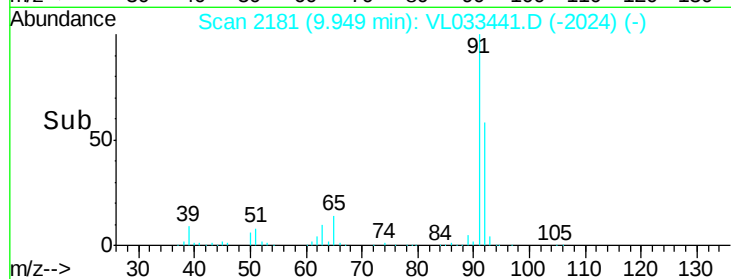
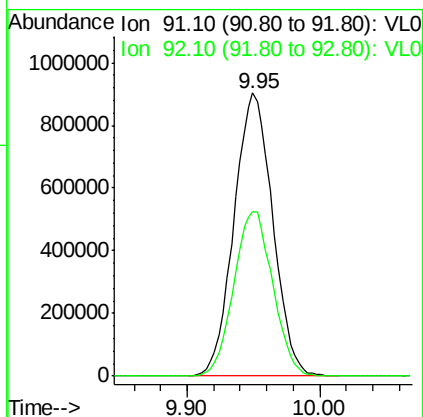
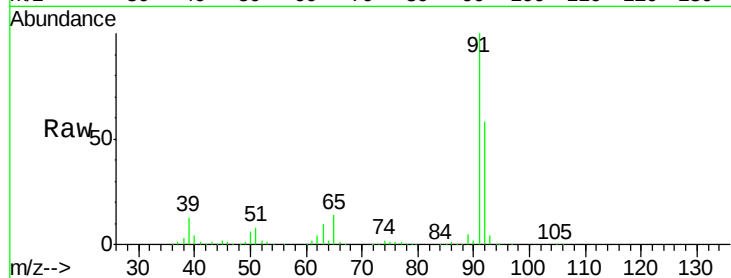
92 58.8 47.4 71.0

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#54

1,2-Dibromoethane

Concen: 9.527 ppbv

RT: 10.76 min Scan# 2434

Delta R.T. -0.00 min

Lab File: VL033441.D

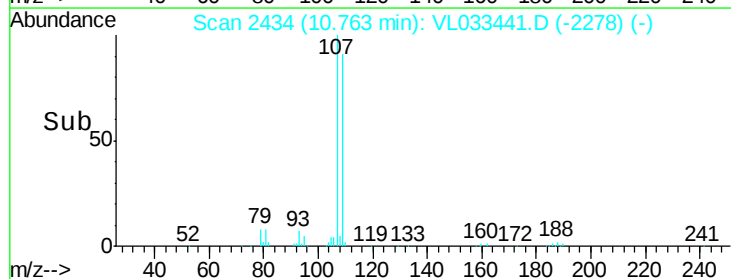
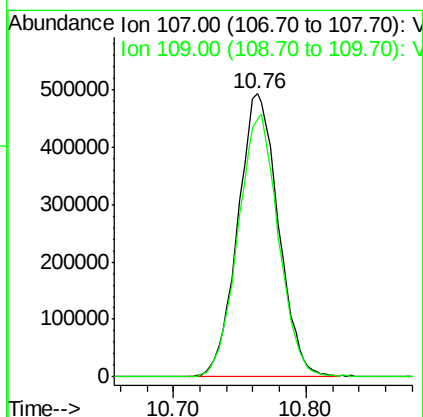
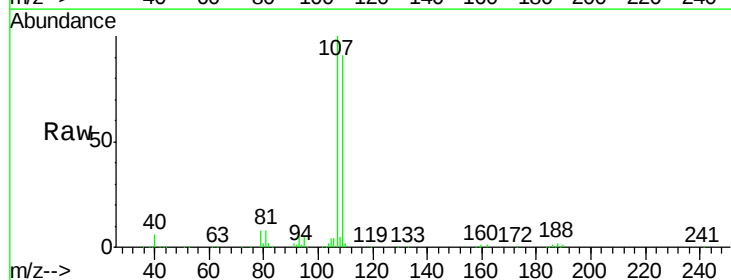
Acq: 25 Mar 2019 17:22

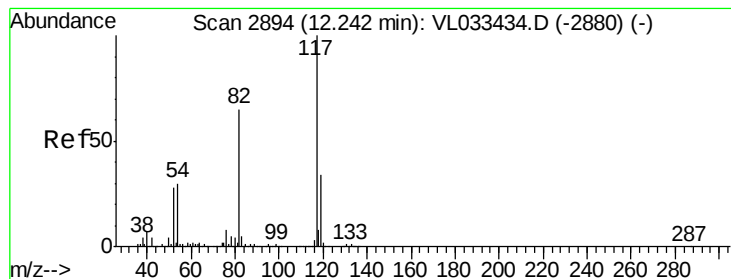
Tgt Ion: 107 Resp: 1043472

Ion Ratio Lower Upper

107 100

109 90.8 72.7 109.1





#55

Chlorobenzene-d5

Concen: 10.000 ppbv m

RT: 12.25 min Scan# 2895

Delta R.T. 0.00 min

Lab File: VL033441.D

Acq: 25 Mar 2019 17:22

Instrument :

MSVOA_L

ClientSampleId :

ICVVL032519

Tgt Ion:117 Resp: 2051367

Ion Ratio Lower Upper

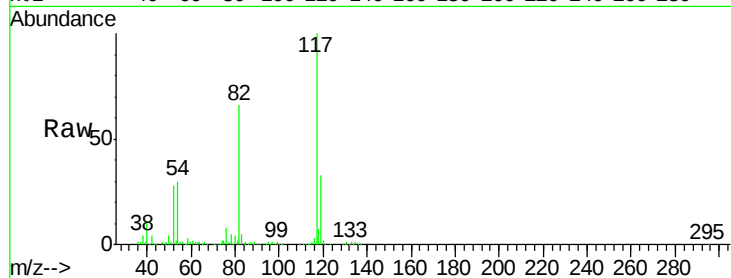
117 100

82 63.9 51.5 77.3

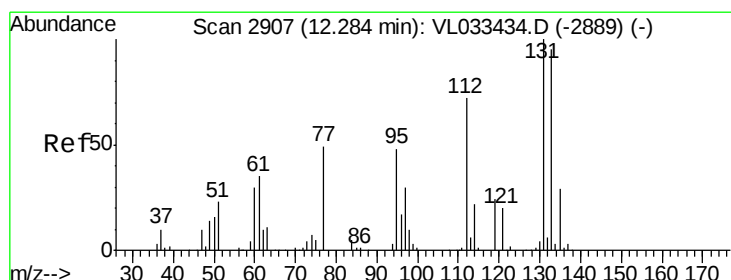
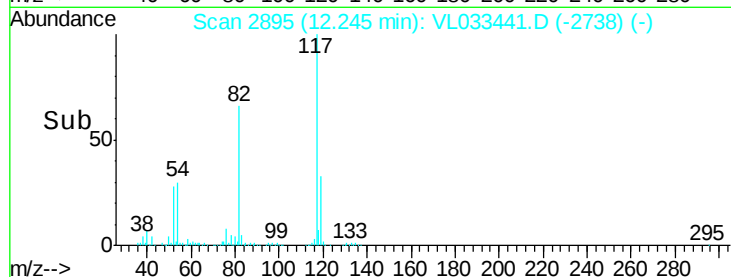
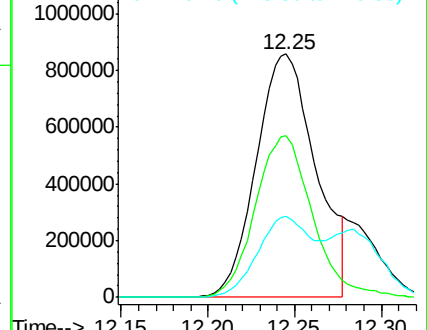
119 32.0 25.5 38.3

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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: 8.881 ppbv m

RT: 12.28 min Scan# 2906

Delta R.T. -0.00 min

Lab File: VL033441.D

Acq: 25 Mar 2019 17:22

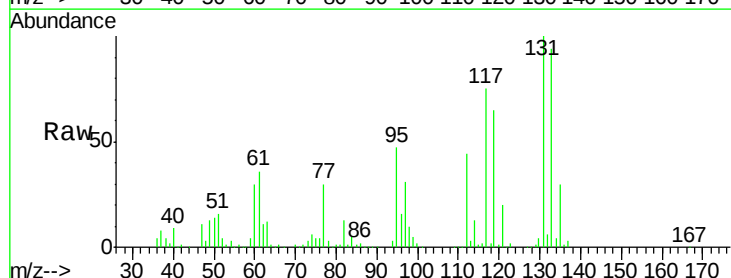
Tgt Ion:131 Resp: 835001

Ion Ratio Lower Upper

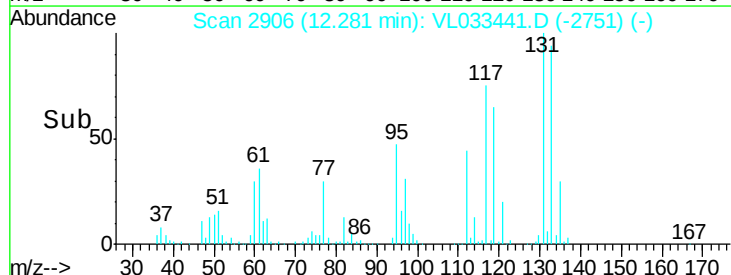
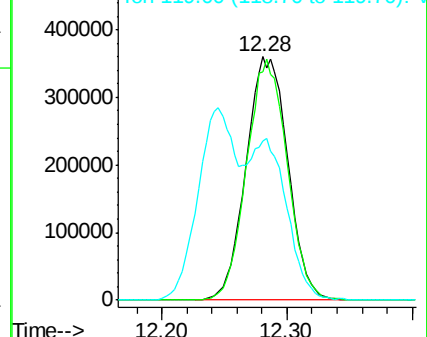
131 100

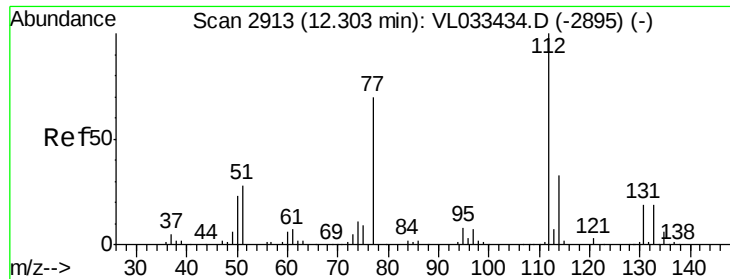
133 96.1 76.2 114.4

119 56.1 45.0 67.6



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





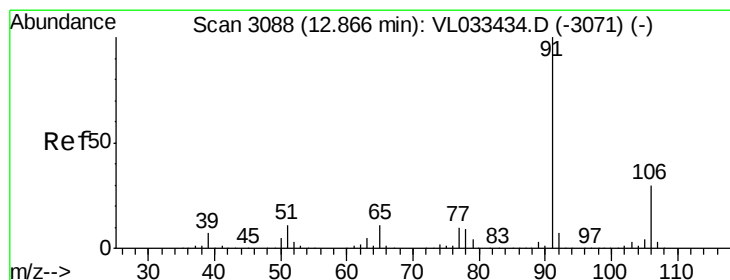
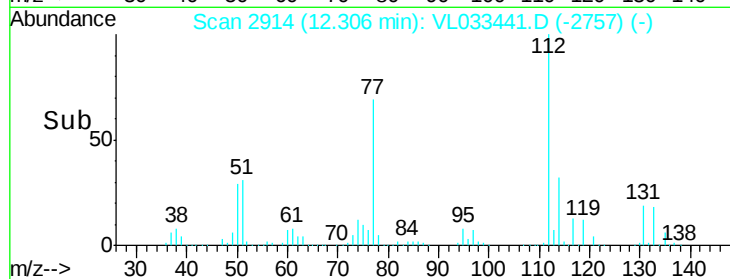
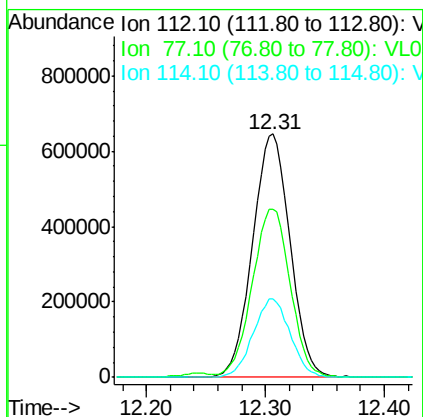
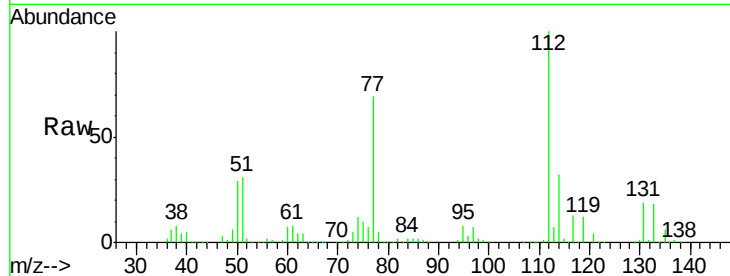
#57
Chlorobenzene
Concen: 8.855 ppbv
RT: 12.31 min Scan# 2914
Delta R.T. 0.00 min
Lab File: VL033441.D
Acq: 25 Mar 2019 17:22

Instrument :
MSVOA_L
ClientSampleId :
ICVVL032519

Tgt Ion: 112 Resp: 1410421
Ion Ratio Lower Upper
112 100
77 68.8 57.3 85.9
114 32.0 29.8 36.4

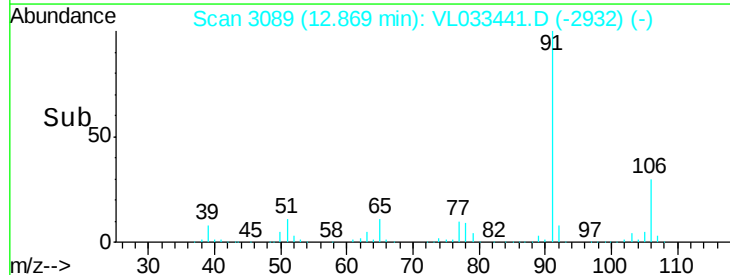
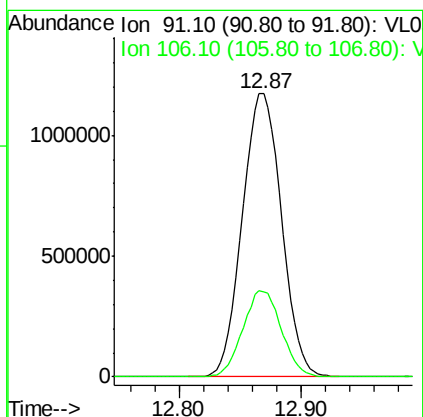
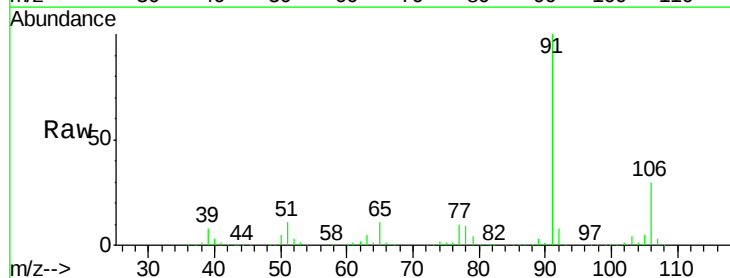
Manual Integrations
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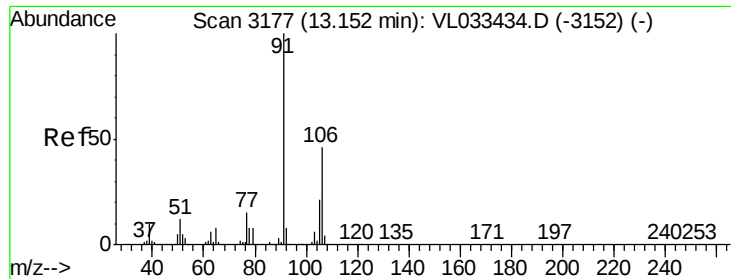
MMDadoda
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#58
Ethyl Benzene
Concen: 9.492 ppbv
RT: 12.87 min Scan# 3089
Delta R.T. 0.00 min
Lab File: VL033441.D
Acq: 25 Mar 2019 17:22

Tgt Ion: 91 Resp: 2600338
Ion Ratio Lower Upper
91 100
106 30.1 23.8 35.6





#59

m/p-Xylene

Concen: 17.635 ppbv m

RT: 13.16 min Scan# 3178

Delta R.T. 0.00 min

Lab File: VL033441.D

Acq: 25 Mar 2019 17:22

Instrument :

MSVOA_L

ClientSampleId :

ICVVL032519

Tgt Ion: 91 Resp: 4315091

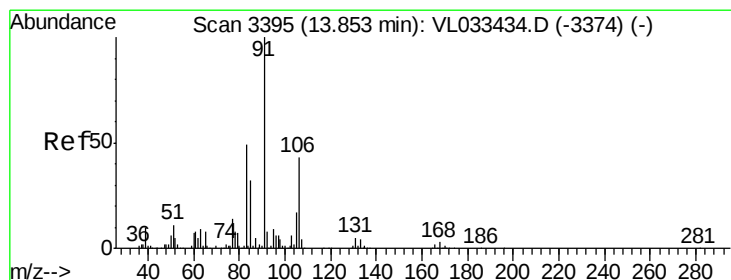
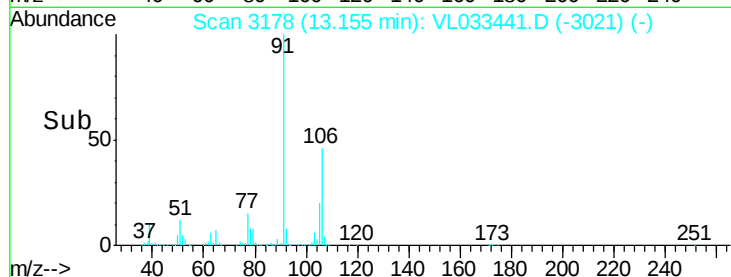
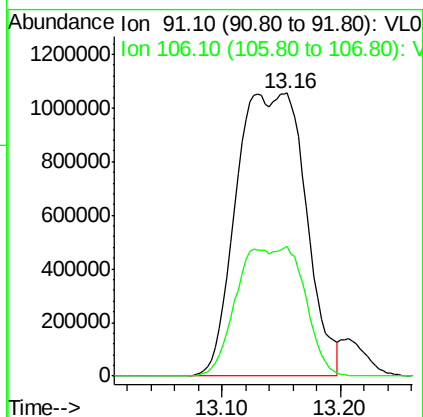
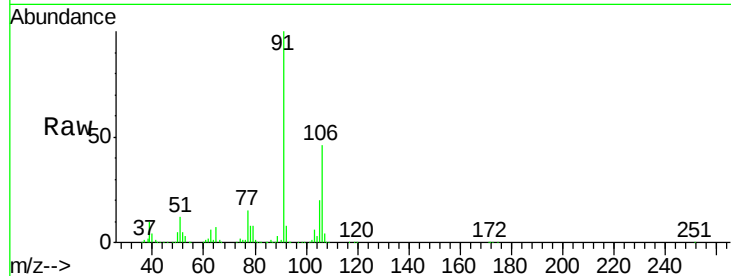
Ion Ratio Lower Upper

91 100

106 44.5 0.0 0.0#

Manual Integrations
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#60

o-Xylene

Concen: 9.194 ppbv

RT: 13.86 min Scan# 3396

Delta R.T. 0.00 min

Lab File: VL033441.D

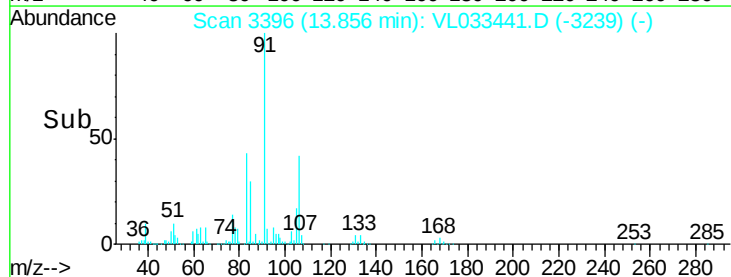
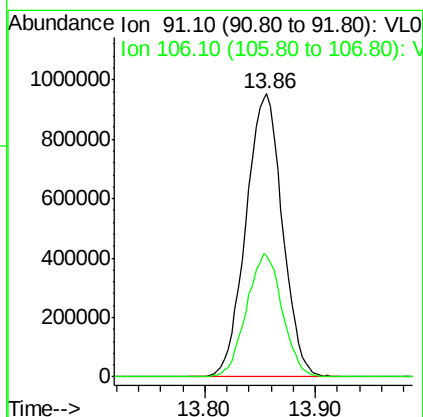
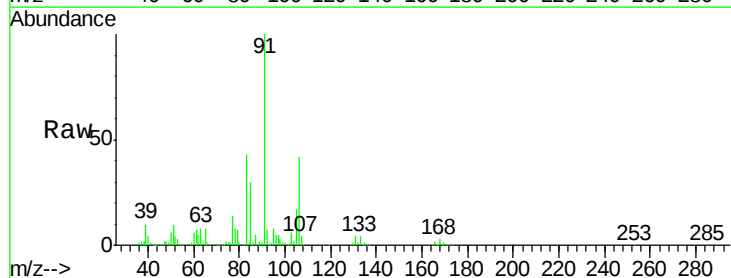
Acq: 25 Mar 2019 17:22

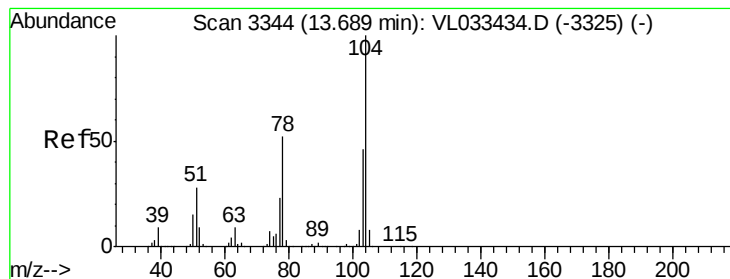
Tgt Ion: 91 Resp: 2175517

Ion Ratio Lower Upper

91 100

106 42.7 21.4 64.3





#61

Styrene

Concen: 9.899 ppbv

RT: 13.69 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VL033441.D

Acq: 25 Mar 2019 17:22

Instrument :

MSVOA_L

ClientSampleId :

ICVVL032519

Tgt Ion:104 Resp: 1607469

Ion Ratio Lower Upper

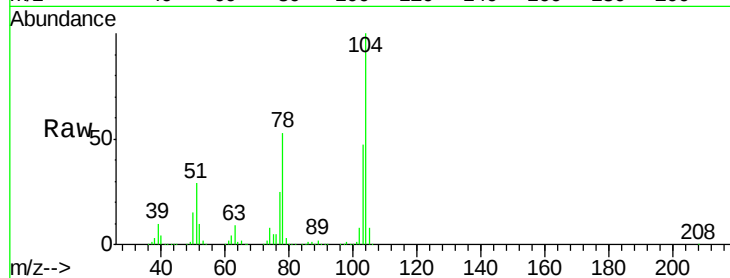
104 100

78 53.7 43.2 64.8

103 47.2 37.8 56.8

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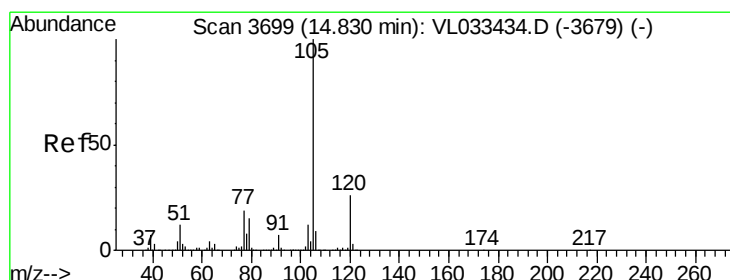
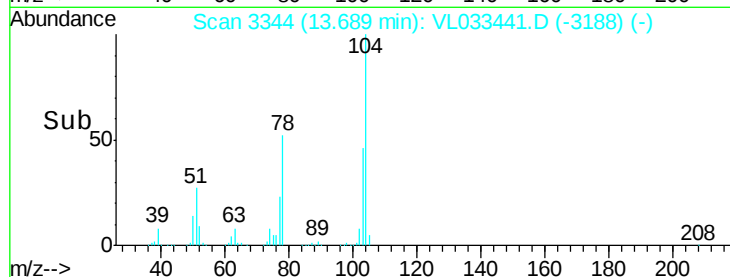
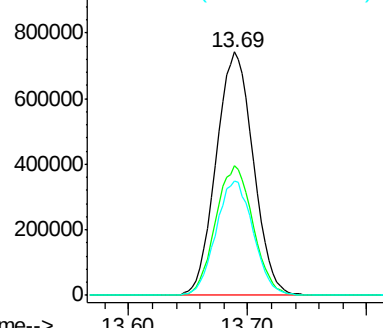
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Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 8.890 ppbv

RT: 14.83 min Scan# 3699

Delta R.T. 0.00 min

Lab File: VL033441.D

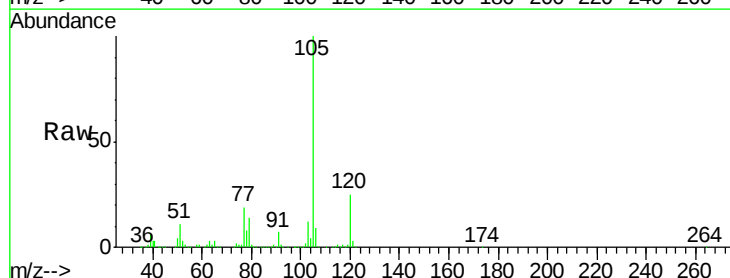
Acq: 25 Mar 2019 17:22

Tgt Ion:105 Resp: 2978891

Ion Ratio Lower Upper

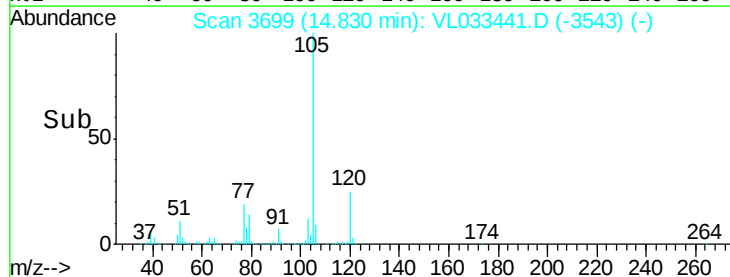
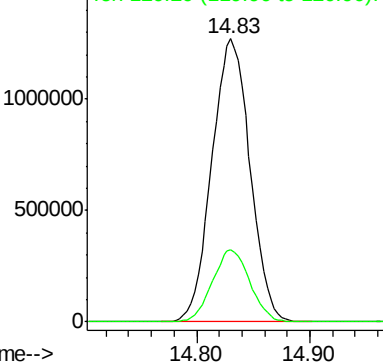
105 100

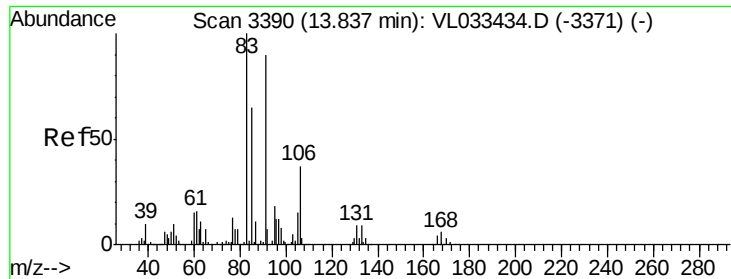
120 25.1 20.2 30.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





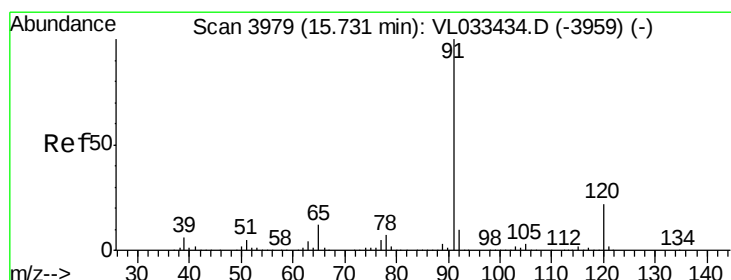
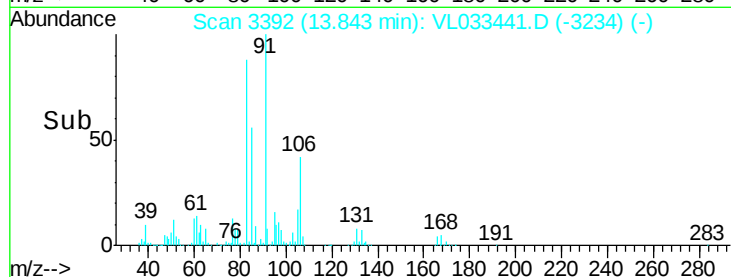
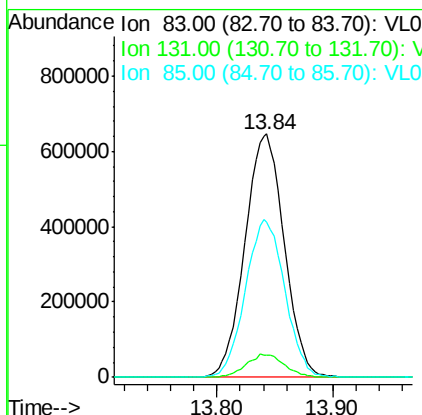
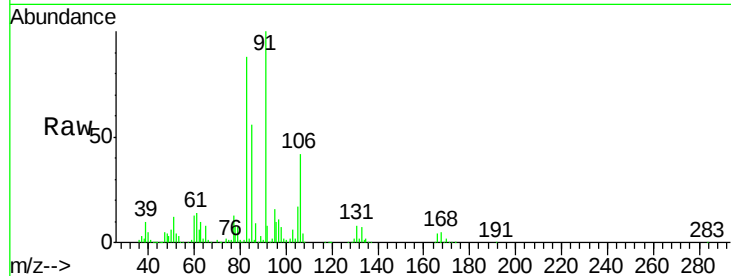
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.738 ppbv
 RT: 13.84 min Scan# 3392
 Delta R.T. 0.01 min
 Lab File: VL033441.D
 Acq: 25 Mar 2019 17:22

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL032519

Tgt Ion: 83 Resp: 1522369
 Ion Ratio Lower Upper
 83 100
 131 9.3 4.7 14.0
 85 65.0 32.7 98.1

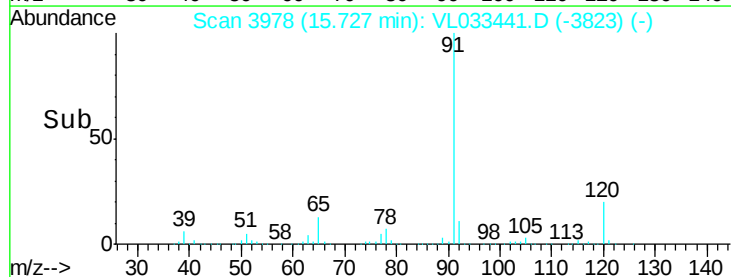
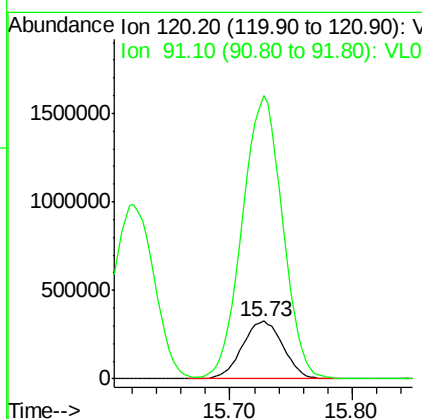
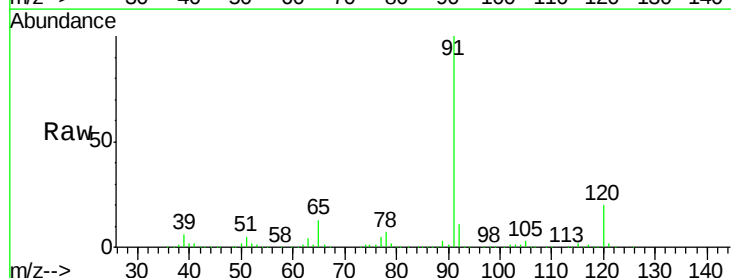
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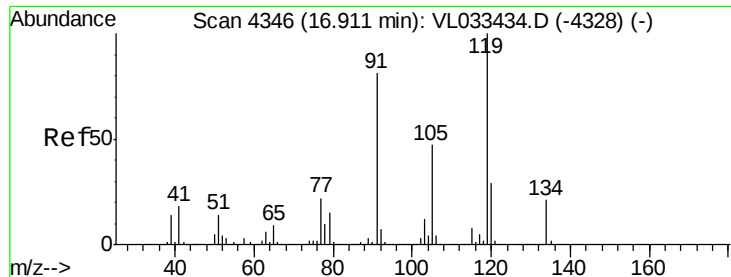
MMDadoda
 4/1/2019 1:22:50 AM



#64
 n-propylbenzene
 Concen: 8.848 ppbv
 RT: 15.73 min Scan# 3978
 Delta R.T. -0.00 min
 Lab File: VL033441.D
 Acq: 25 Mar 2019 17:22

Tgt Ion: 120 Resp: 752241
 Ion Ratio Lower Upper
 120 100
 91 486.0 387.4 581.2





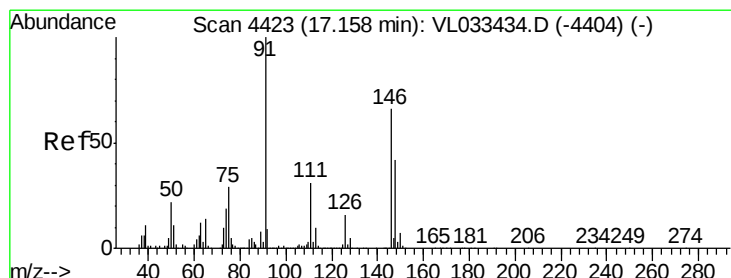
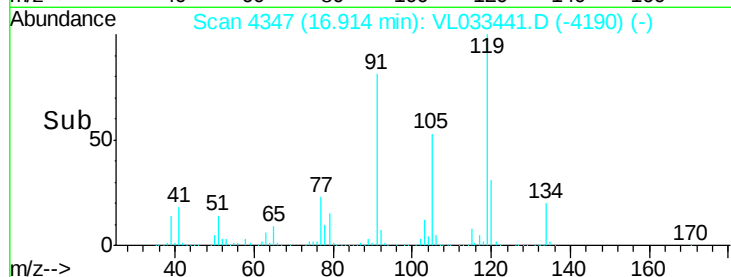
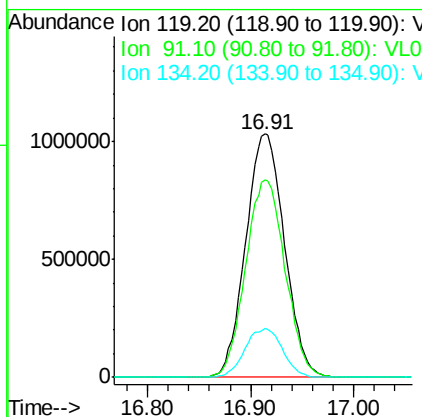
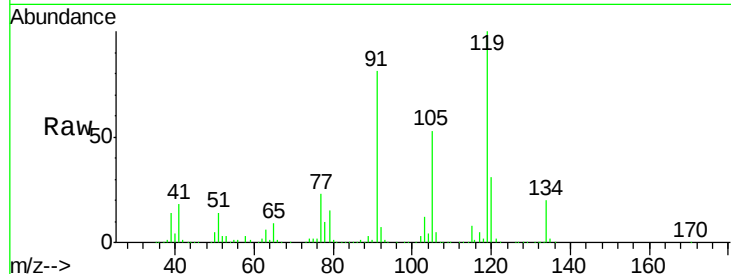
#65
tert-Butylbenzene
Concen: 9.110 ppbv
RT: 16.91 min Scan# 4347
Delta R.T. 0.00 min
Lab File: VL033441.D
Acq: 25 Mar 2019 17:22

Instrument :
MSVOA_L
ClientSampleId :
ICVVL032519

Tgt Ion: 119 Resp: 2689729
Ion Ratio Lower Upper
119 100
91 82.9 66.4 99.6
134 19.5 15.5 23.3

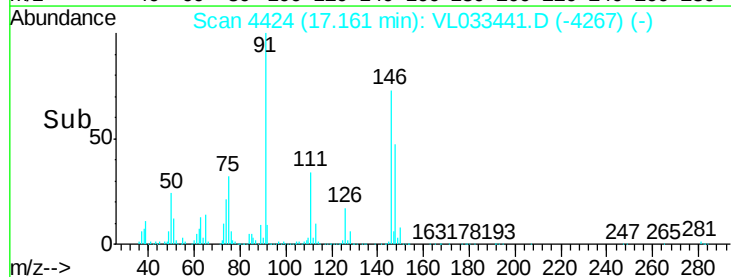
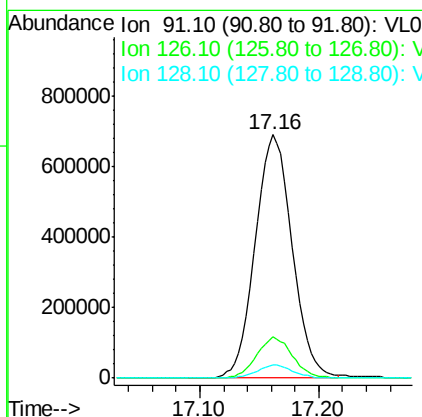
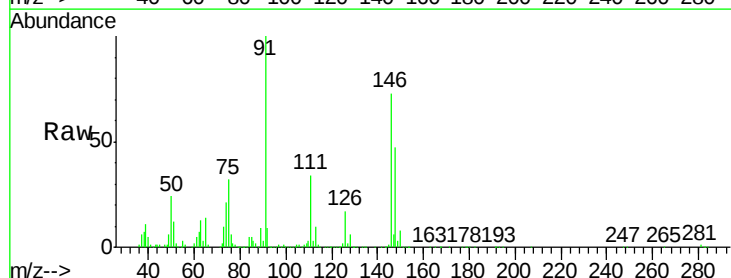
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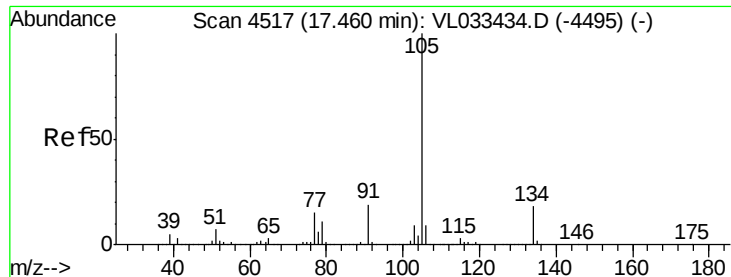
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#66
Benzyl Chloride
Concen: 10.789 ppbv
RT: 17.16 min Scan# 4424
Delta R.T. 0.00 min
Lab File: VL033441.D
Acq: 25 Mar 2019 17:22

Tgt Ion: 91 Resp: 1481230
Ion Ratio Lower Upper
91 100
126 16.4 13.0 19.6
128 5.3 4.2 6.2





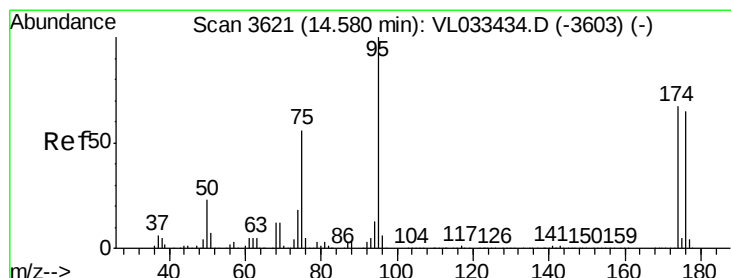
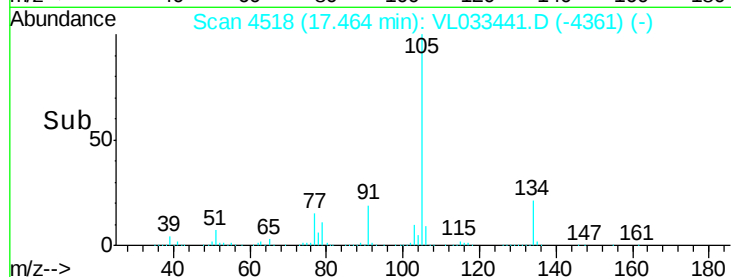
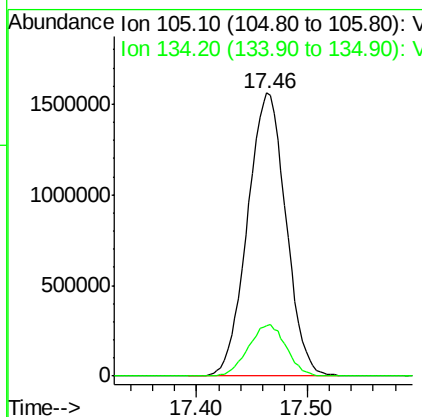
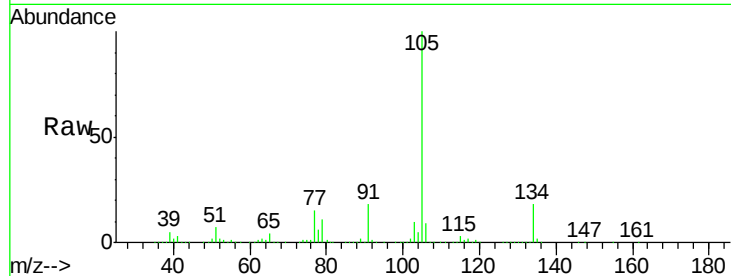
#67
 sec-Butylbenzene
 Concen: 8.990 ppbv
 RT: 17.46 min Scan# 4518
 Delta R.T. 0.00 min
 Lab File: VL033441.D
 Acq: 25 Mar 2019 17:22

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL032519

Tgt Ion: 105 Resp: 3774711
 Ion Ratio Lower Upper
 105 100
 134 18.0 14.6 21.8

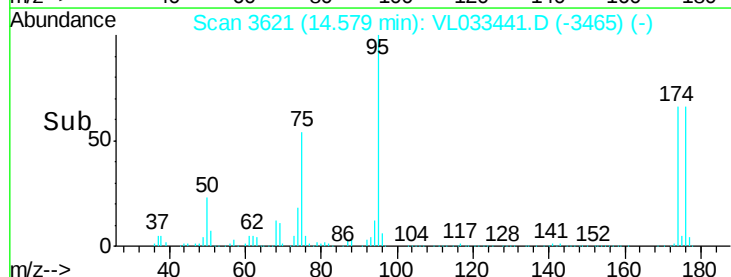
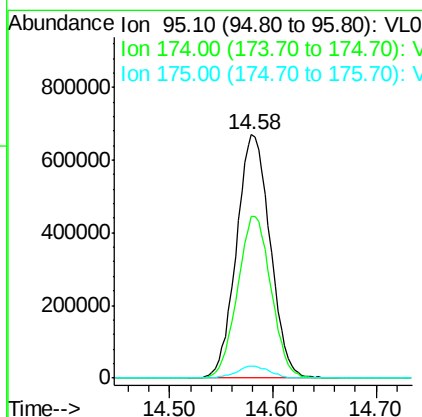
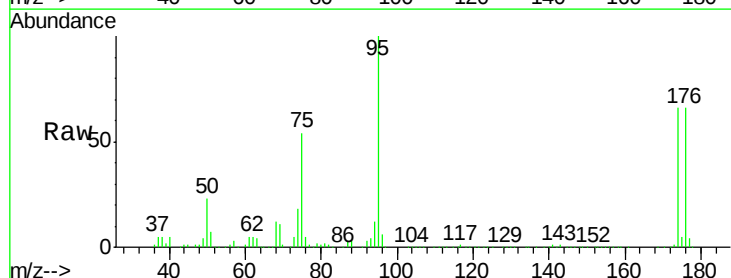
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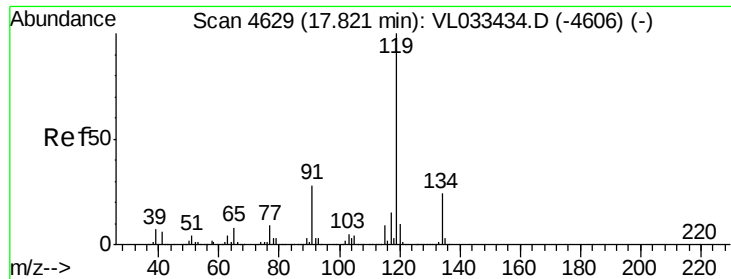
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#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.468 ppbv
 RT: 14.58 min Scan# 3621
 Delta R.T. -0.00 min
 Lab File: VL033441.D
 Acq: 25 Mar 2019 17:22

Tgt Ion: 95 Resp: 1522660
 Ion Ratio Lower Upper
 95 100
 174 66.4 52.9 79.3
 175 4.8 3.8 5.6





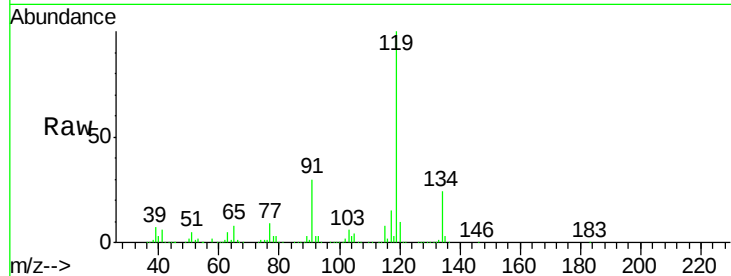
#69
p-Isopropyltoluene
Concen: 9.204 ppbv
RT: 17.82 min Scan# 4629
Delta R.T. 0.00 min
Lab File: VL033441.D
Acq: 25 Mar 2019 17:22

Instrument :
MSVOA_L
ClientSampleId :
ICVVL032519

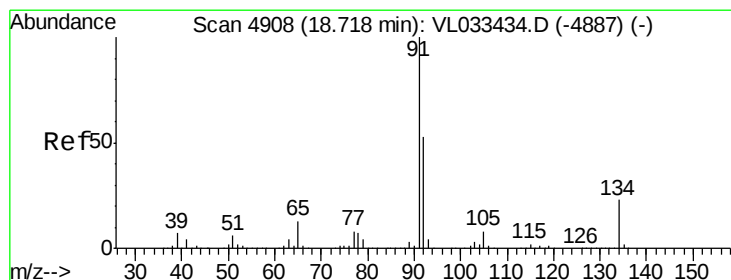
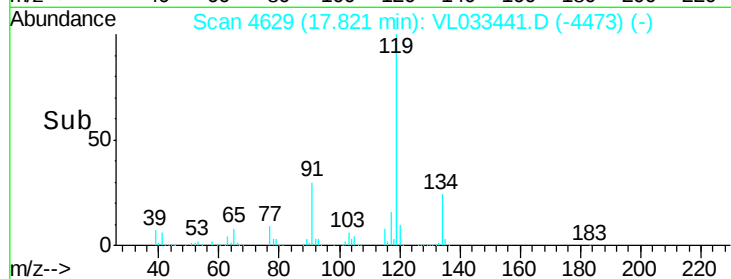
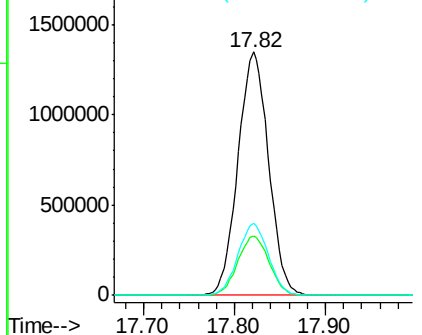
Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.0	19.9	29.9
91	29.5	23.4	35.0

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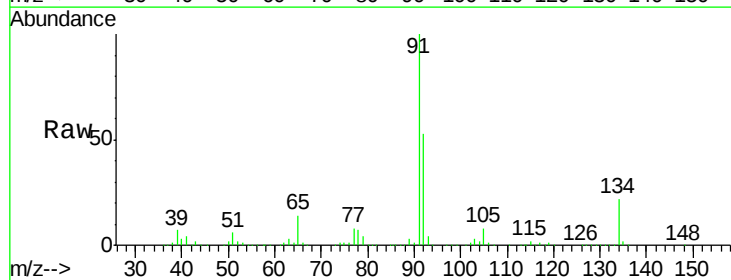


Abundance Ion 119.10 (118.80 to 119.80): V
Ion 134.20 (133.90 to 134.90): V
Ion 91.10 (90.80 to 91.80): V

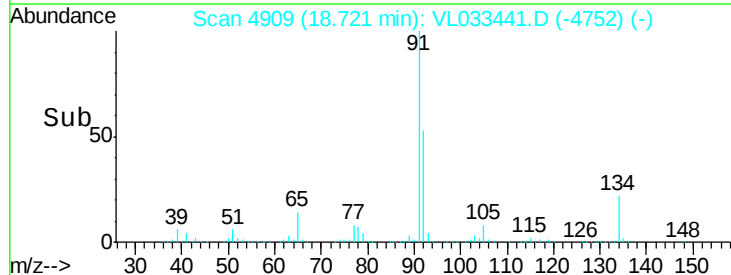
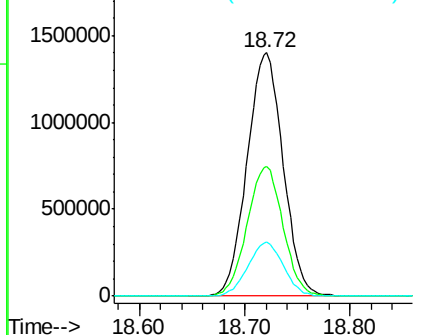


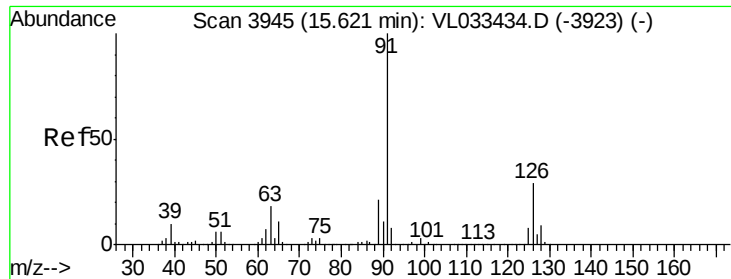
#70
n-Butylbenzene
Concen: 9.194 ppbv
RT: 18.72 min Scan# 4909
Delta R.T. 0.00 min
Lab File: VL033441.D
Acq: 25 Mar 2019 17:22

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.1	42.6	64.0
134	22.0	17.5	26.3



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 92.10 (91.80 to 92.80): VL0
Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 8.993 ppbv

RT: 15.62 min Scan# 3945

Delta R.T. 0.00 min

Lab File: VL033441.D

Acq: 25 Mar 2019 17:22

Instrument :

MSVOA_L

ClientSampleId :

ICVVL032519

Tgt Ion: 91 Resp: 2291336

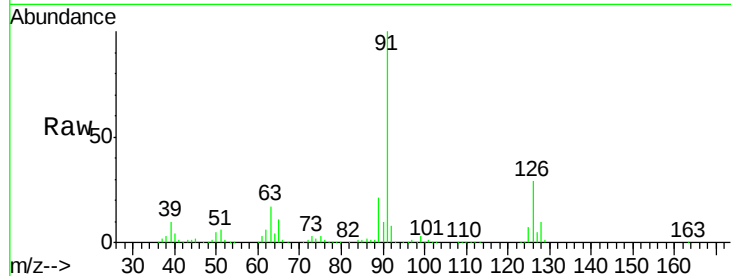
Ion Ratio Lower Upper

91 100

126 29.6 11.7 46.9

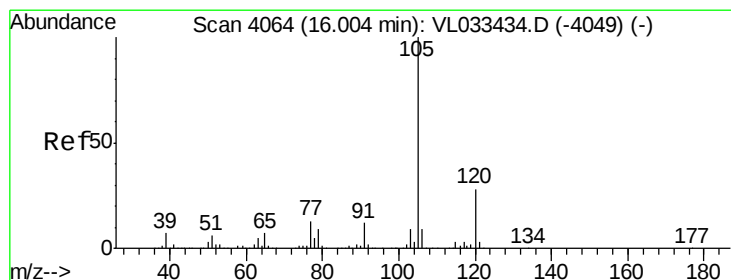
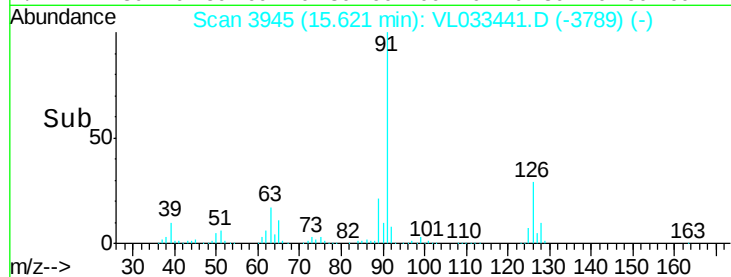
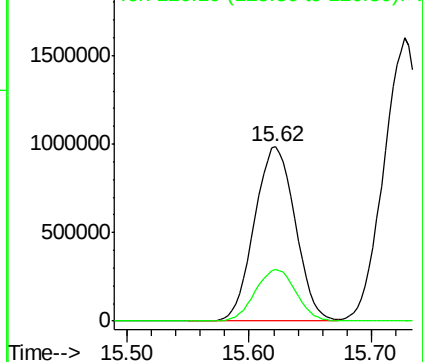
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 9.283 ppbv

RT: 16.00 min Scan# 4064

Delta R.T. -0.00 min

Lab File: VL033441.D

Acq: 25 Mar 2019 17:22

Tgt Ion:105 Resp: 2469097

Ion Ratio Lower Upper

105 100

120 29.3 23.2 34.8

91 12.9 10.4 15.6

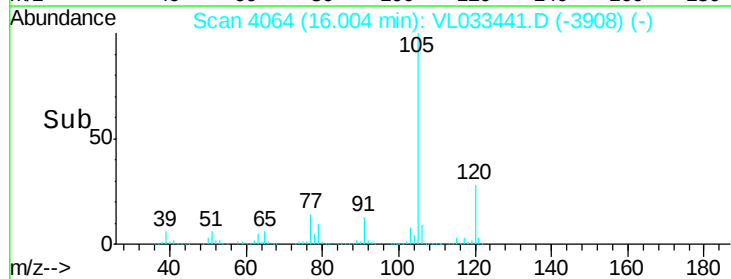
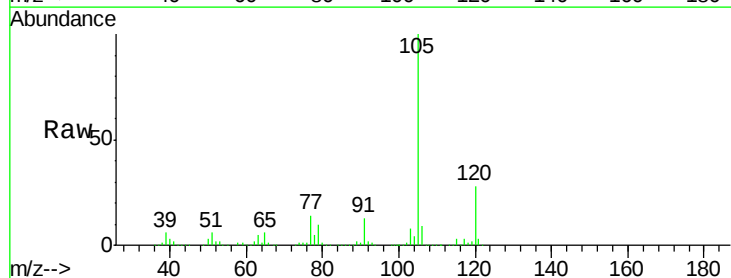
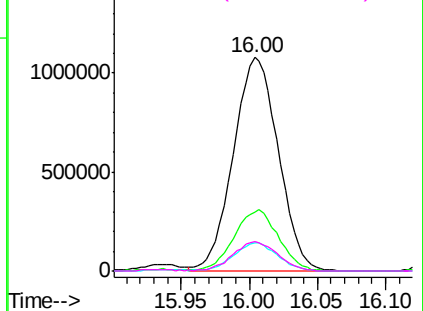
77 13.7 11.3 16.9

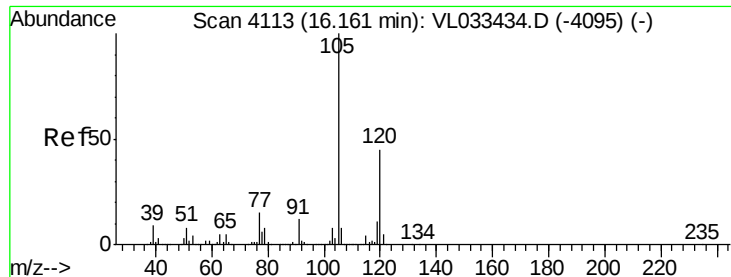
Abundance Ion 105.10 (104.80 to 105.80): V

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: 9.282 ppbv

RT: 16.16 min Scan# 4113

Delta R.T. 0.00 min

Lab File: VL033441.D

Acq: 25 Mar 2019 17:22

Instrument :

MSVOA_L

ClientSampled :

ICVVL032519

Tgt Ion:105 Resp: 2362490

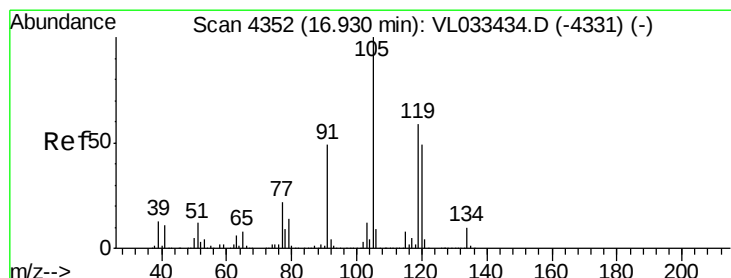
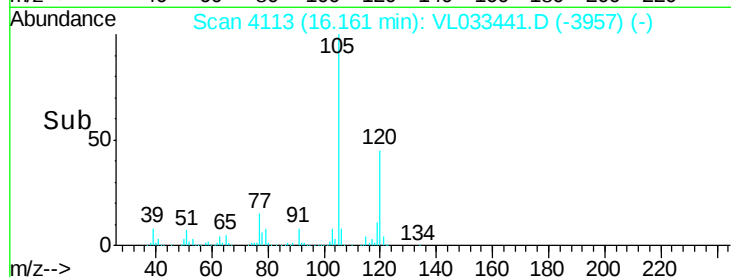
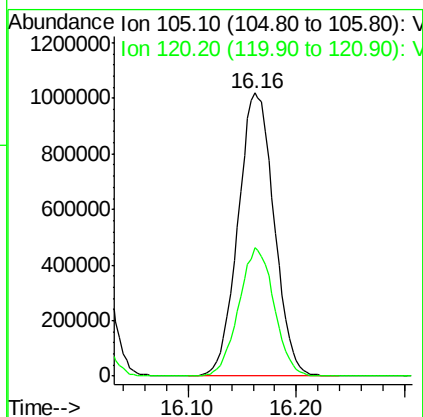
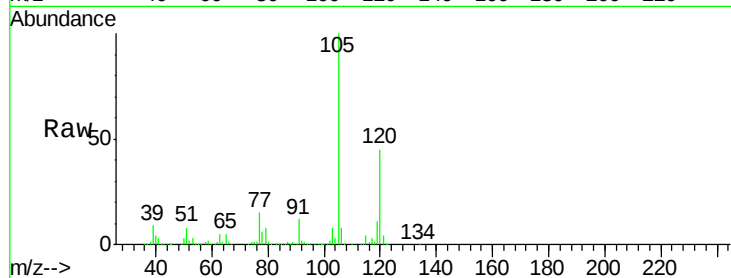
Ion Ratio Lower Upper

105 100

120 45.5 35.7 53.5

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#74

1,2,4-Trimethylbenzene

Concen: 9.040 ppbv

RT: 16.93 min Scan# 4352

Delta R.T. 0.00 min

Lab File: VL033441.D

Acq: 25 Mar 2019 17:22

Tgt Ion:105 Resp: 2466186

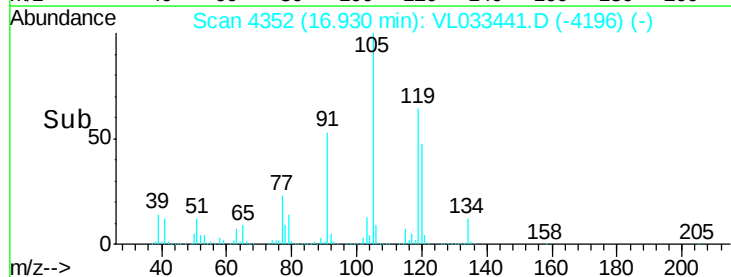
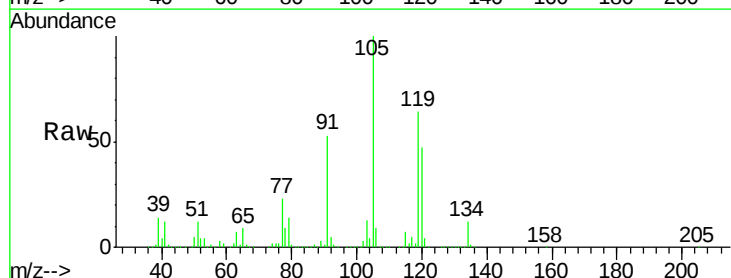
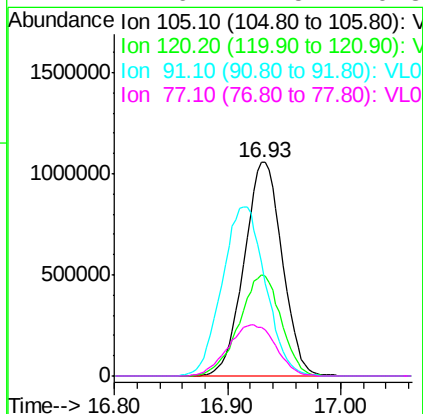
Ion Ratio Lower Upper

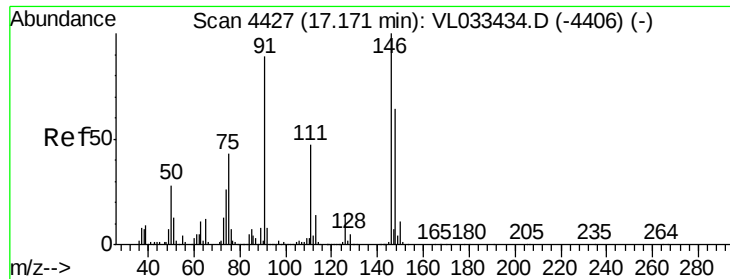
105 100

120 47.2 39.0 58.6

91 53.3 40.0 60.0

77 22.6 17.5 26.3





#75

1,3-Dichlorobenzene

Concen: 8.624 ppbv

RT: 17.17 min Scan# 4427

Delta R.T. -0.00 min

Lab File: VL033441.D

Acq: 25 Mar 2019 17:22

Instrument :

MSVOA_L

ClientSampleId :

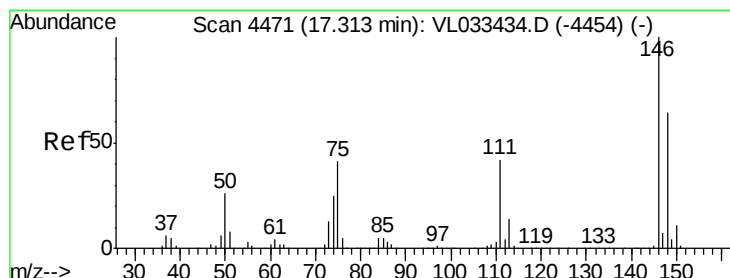
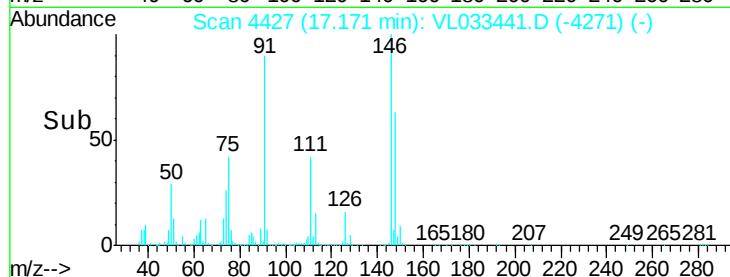
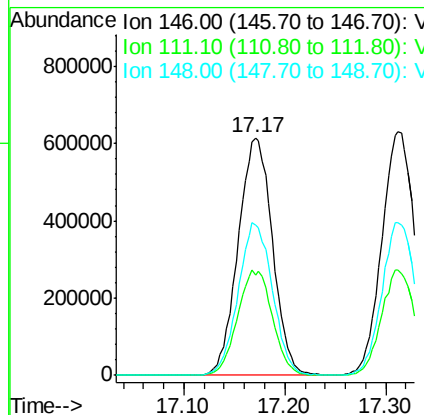
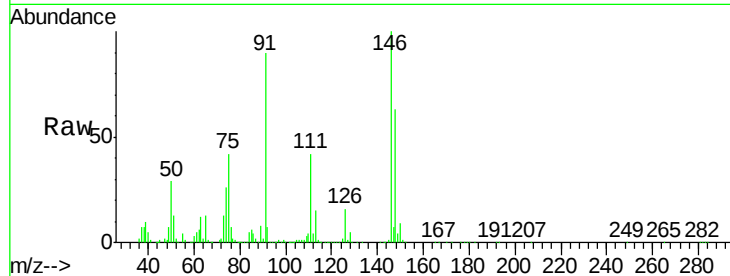
ICVVL032519

Tgt Ion:146 Resp: 1454202

Ion	Ratio	Lower	Upper
146	100		
111	44.9	22.9	68.8
148	63.9	32.0	96.2

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#76

1,4-Dichlorobenzene

Concen: 8.787 ppbv

RT: 17.31 min Scan# 4471

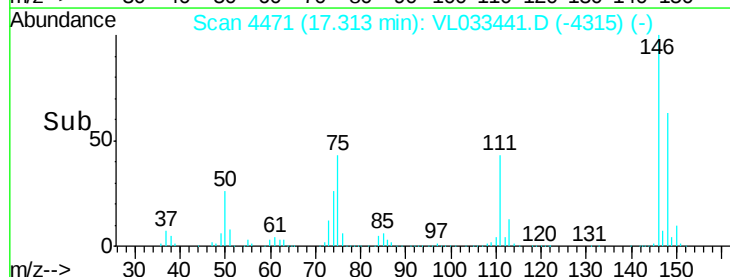
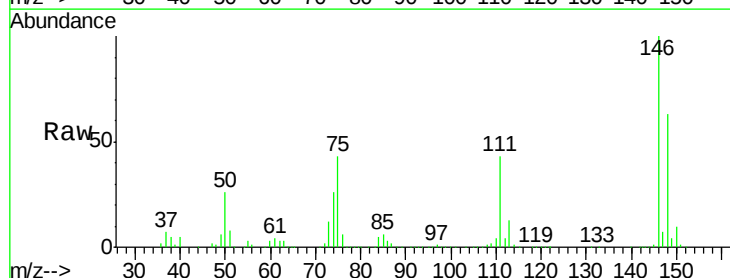
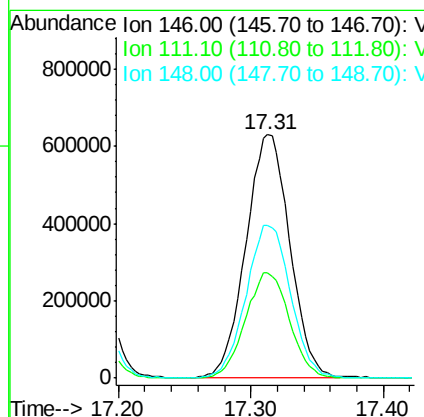
Delta R.T. 0.00 min

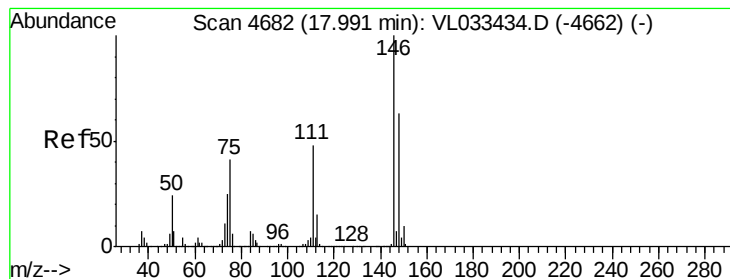
Lab File: VL033441.D

Acq: 25 Mar 2019 17:22

Tgt Ion:146 Resp: 1443601

Ion	Ratio	Lower	Upper
146	100		
111	43.7	21.7	65.1
148	64.1	32.0	96.2





#77

1,2-Dichlorobenzene

Concen: 8.882 ppbv

RT: 17.99 min Scan# 4682

Delta R.T. 0.00 min

Lab File: VL033441.D

Acq: 25 Mar 2019 17:22

Instrument :

MSVOA_L

ClientSampleId :

ICVVL032519

Tgt Ion:146 Resp: 1420921

Ion Ratio Lower Upper

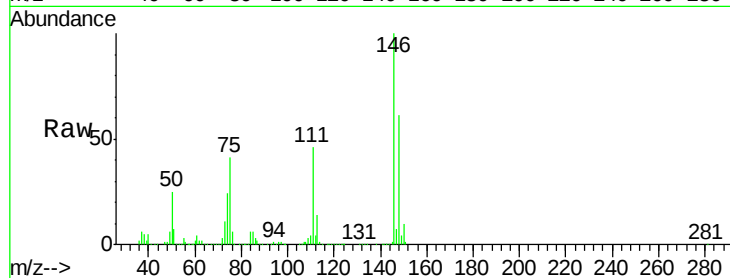
146 100

111 46.9 23.5 70.5

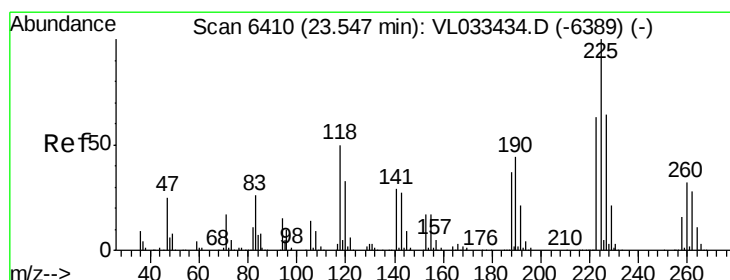
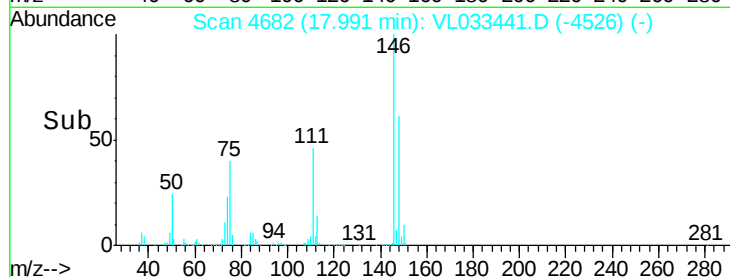
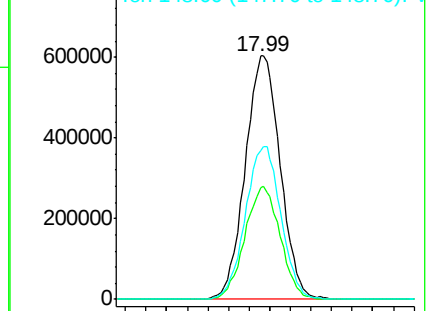
148 63.7 32.0 96.0

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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: 10.046 ppbv

RT: 23.55 min Scan# 6410

Delta R.T. -0.00 min

Lab File: VL033441.D

Acq: 25 Mar 2019 17:22

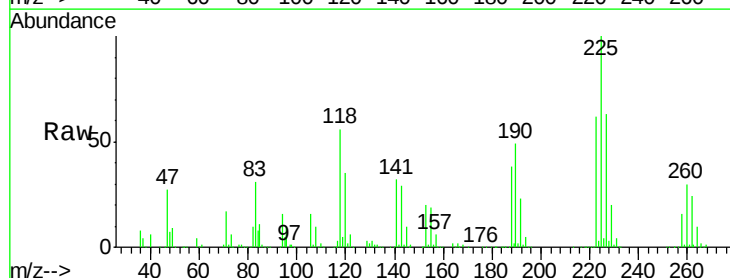
Tgt Ion:225 Resp: 1063899

Ion Ratio Lower Upper

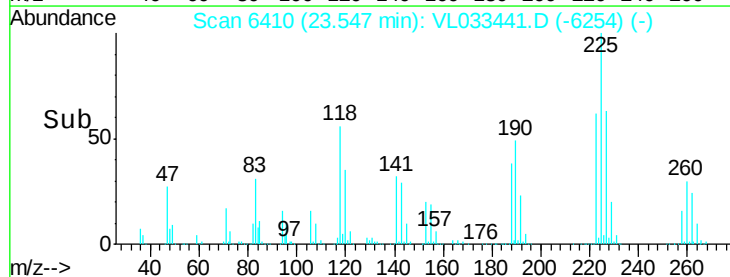
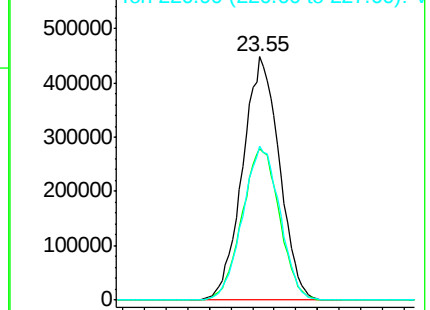
225 100

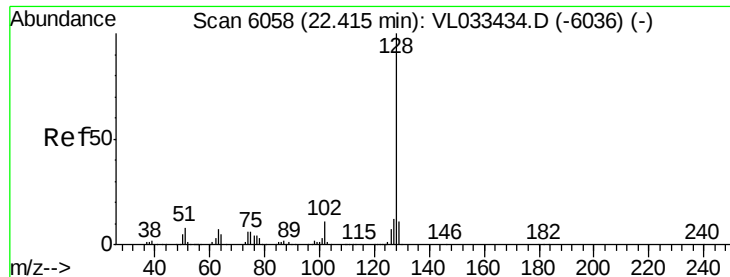
223 63.3 50.0 75.0

227 64.0 51.1 76.7



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: 10.365 ppbv

RT: 22.42 min Scan# 6059

Delta R.T. 0.00 min

Lab File: VL033441.D

Acq: 25 Mar 2019 17:22

Instrument :

MSVOA_L

ClientSampleId :

ICVVL032519

Tgt Ion:128 Resp: 2420628

Ion Ratio Lower Upper

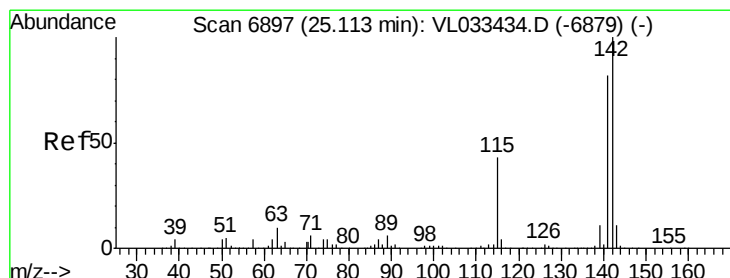
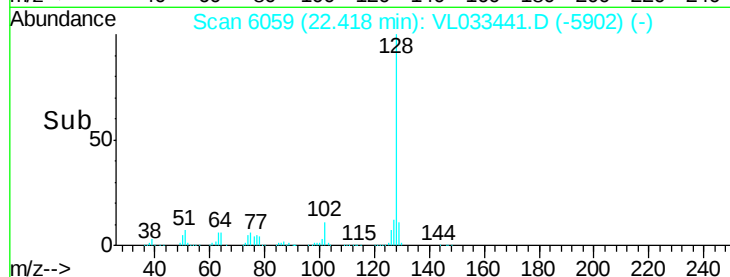
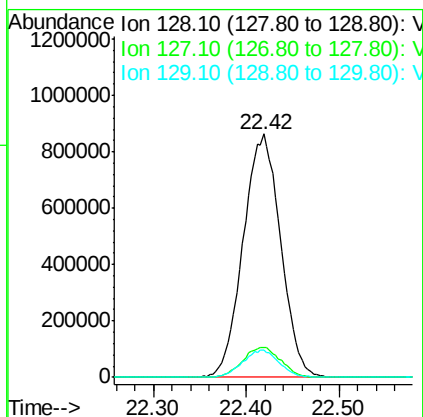
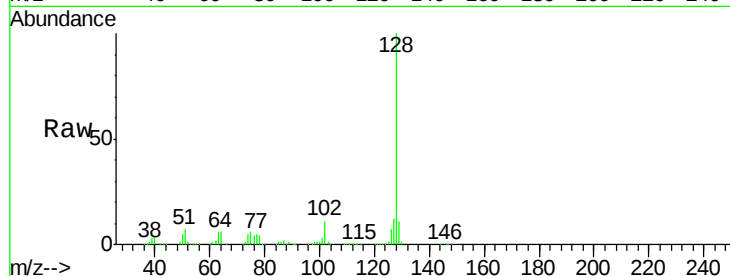
128 100

127 12.4 9.8 14.8

129 11.2 8.6 12.8

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#80

Naphthalene, 2-methyl-

Concen: 13.239 ppbv

RT: 25.12 min Scan# 6898

Delta R.T. 0.00 min

Lab File: VL033441.D

Acq: 25 Mar 2019 17:22

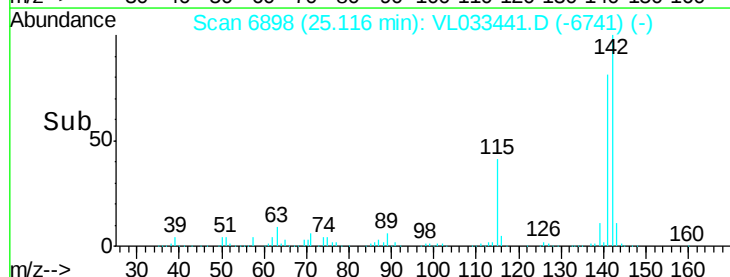
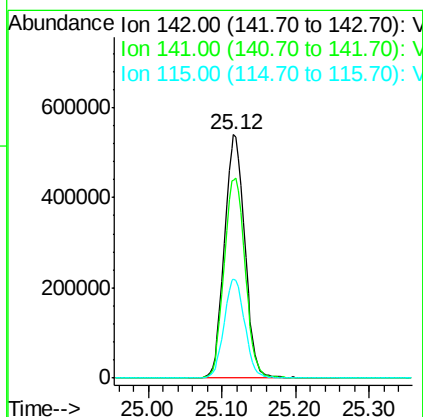
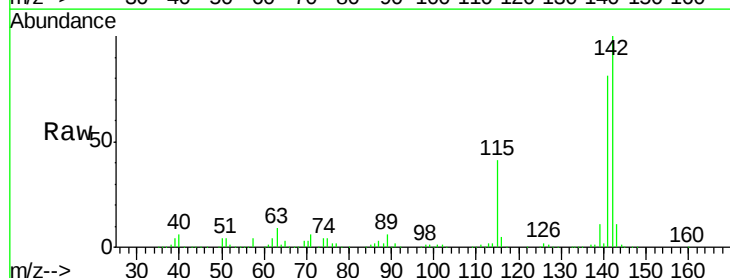
Tgt Ion:142 Resp: 1037611

Ion Ratio Lower Upper

142 100

141 84.8 66.6 99.8

115 41.3 34.4 51.6





#81
 1,2,4-Trichlorobenzene
 Concen: 9.508 ppbv
 RT: 22.14 min Scan# 5973
 Delta R.T. -0.00 min
 Lab File: VL033441.D
 Acq: 25 Mar 2019 17:22

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL032519

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.5	77.0	115.4
184	30.3	24.6	36.8

Manual Integrations
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