

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL020419\
 Data File : VL033151.D
 Acq On : 4 Feb 2019 10:42
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

MMDadoda
 2/5/2019 10:27:04 AM

Quant Time: Feb 04 14:40:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL020419AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Feb 0
 QLast Update : Fri Feb 01 22:01:04 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1234436	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	3460787	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	3497447	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2652800	10.05	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	309708	1.673	ppbv	99
3) Chlorodifluoromethane	3.01	51	319656	1.610	ppbv	100
4) Chloromethane	3.17	50	182207	1.594	ppbv	93
5) Vinyl Chloride	3.29	62	164011	1.312	ppbv	98
6) Bromomethane	3.51	94	102529	1.861	ppbv	96
7) Chloroethane	3.60	64	61479	1.822	ppbv	99
8) Dichlorotetrafluoroethane	3.22	85	375057	1.638	ppbv	96
9) Propene	3.04	41	161283	1.590	ppbv	99
10) Heptane	8.25	43	491625	2.601	ppbv	98
11) Trichlorofluoromethane	4.00	101	404407	2.076	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	260665	2.102	ppbv	96
13) Ethanol	3.65	45	67737m	2.360	ppbv	
14) Bromoethene	3.79	108	124104	1.979	ppbv	98
15) Acetone	3.90	43	373005	2.384	ppbv	99
16) 1,3-Butadiene	3.36	39	139249	1.856	ppbv	100
17) tert-Butyl alcohol	4.36	59	74657m	1.979	ppbv	
18) 1,1-Dichloroethene	4.35	96	118707	1.982	ppbv	96
19) Isopropyl Alcohol	4.02	45	232910	1.947	ppbv #	46
20) Methylene Chloride	4.41	84	118313	1.954	ppbv	97
21) Allyl Chloride	4.48	41	204988	2.039	ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	116044	2.079	ppbv	98
23) Vinyl Acetate	5.15	43	565407	2.081	ppbv	99
24) 1,1-Dichloroethane	5.09	63	384497	2.121	ppbv	99
25) Ethyl Acetate	5.77	43	666449	1.988	ppbv	99
26) Hexane	5.78	57	316511	1.929	ppbv	97
27) Carbon Disulfide	4.62	76	273987	2.068	ppbv	97
28) Methyl tert-Butyl Ether	5.11	73	497919	2.111	ppbv	100
29) Chloroform	5.85	83	535293	2.415	ppbv	98
30) Cyclohexane	7.25	84	312178	2.454	ppbv	90
31) cis-1,2-Dichloroethene	5.64	61	303260	2.024	ppbv	98
32) 1,1,1-Trichloroethane	6.62	97	516289	2.256	ppbv #	82
34) 2-Butanone	5.33	43	468290	1.770	ppbv	99
35) Carbon Tetrachloride	7.13	117	505451	1.946	ppbv	97
36) Benzene	7.00	78	764159	1.969	ppbv	99
37) 1,2-Dichloroethane	6.41	62	402568	2.037	ppbv	99
38) Trichloroethene	7.96	130	267342	1.711	ppbv	97
39) 1,2-Dichloropropane	7.73	63	297914	2.094	ppbv	97
40) 1,4-Dioxane	7.96	88	112883	2.254	ppbv	98
41) Tetrahydrofuran	6.15	42	326741	2.056	ppbv	99
42) Bromodichloromethane	7.91	83	568437	2.018	ppbv	99
43) Methyl Methacrylate	8.13	69	308088	2.266	ppbv	99

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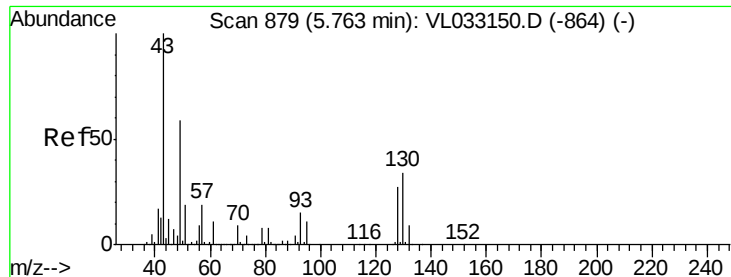
MMDadoda
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL020419AIR.M
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.99	57	1299596	2.075	ppbv	100
45) t-1,3-Dichloropropene	9.41	75	360310	2.193	ppbv	98
46) cis-1,3-Dichloropropene	8.83	75	440191	2.235	ppbv	95
47) 1,1,2-Trichloroethane	9.61	97	305588	2.355	ppbv	95
48) Dibromochloromethane	10.45	129	457480	2.115	ppbv	99
49) Bromoform	13.20	173	388233	2.164	ppbv	98
50) 4-Methyl-2-Pentanone	8.87	43	849082	2.471	ppbv	98
51) 2-Hexanone	10.27	43	740708	2.420	ppbv #	99
52) Tetrachloroethene	11.37	164	249356	1.694	ppbv	98
53) Toluene	9.95	91	878304	1.976	ppbv	99
54) 1,2-Dibromoethane	10.76	107	455717	1.867	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.28	131	332036	2.134	ppbv #	1
57) Chlorobenzene	12.30	112	642305	2.087	ppbv	97
58) Ethyl Benzene	12.86	91	1276987	2.226	ppbv	99
59) m/p-Xylene	13.12	91	2045588m	4.372	ppbv	
60) o-Xylene	13.85	91	976159	2.157	ppbv	98
61) Styrene	13.68	104	755586	2.177	ppbv	98
62) Isopropylbenzene	14.83	105	1392142	2.164	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.83	83	705502	2.066	ppbv	100
64) n-propylbenzene	15.72	120	362752	2.200	ppbv	92
65) tert-Butylbenzene	16.91	119	1264204	2.335	ppbv	96
66) Benzyl Chloride	17.15	91	581906	2.399	ppbv	98
67) sec-Butylbenzene	17.46	105	1809528	2.353	ppbv	100
69) p-Isopropyltoluene	17.81	119	1499420	2.474	ppbv	98
70) n-Butylbenzene	18.71	91	1638450	2.657	ppbv	99
71) 2-Chlorotoluene	15.62	91	1096326	2.239	ppbv	98
72) 4-Ethyltoluene	16.00	105	1176374	2.319	ppbv	99
73) 1,3,5-Trimethylbenzene	16.15	105	1121950	2.453	ppbv	98
74) 1,2,4-Trimethylbenzene	16.93	105	1173507	2.605	ppbv	97
75) 1,3-Dichlorobenzene	17.16	146	641891	2.392	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	629116	2.348	ppbv	99
77) 1,2-Dichlorobenzene	17.98	146	631759	2.441	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	284255	2.370	ppbv	99
79) Naphthalene	22.41	128	1403599	4.752	ppbv	98
80) Naphthalene, 2-methyl-	25.12	142	748922	8.596	ppbv	99
81) 1,2,4-Trichlorobenzene	22.13	180	629275	4.047	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. 0.00 min

Lab File: VL033151.D

Acq: 4 Feb 2019 10:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 49 Resp: 1234436

Ion Ratio Lower Upper

49 100

128 45.7 23.2 69.5

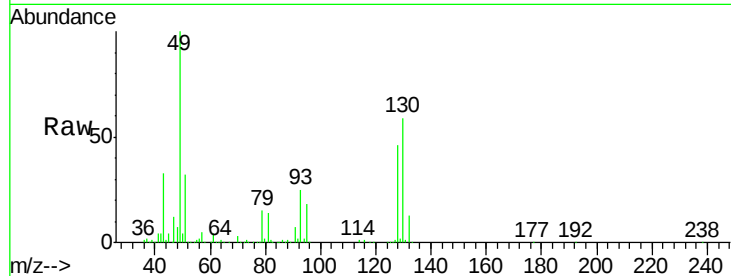
130 59.4 29.5 88.6

Manual Integrations

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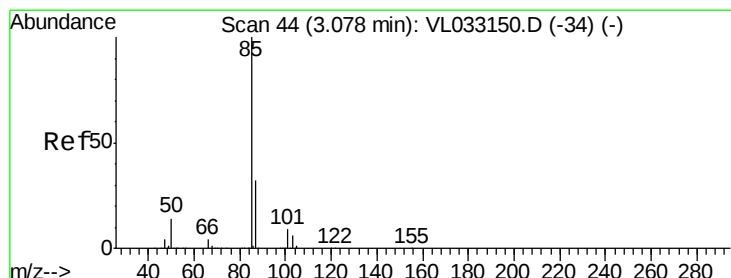
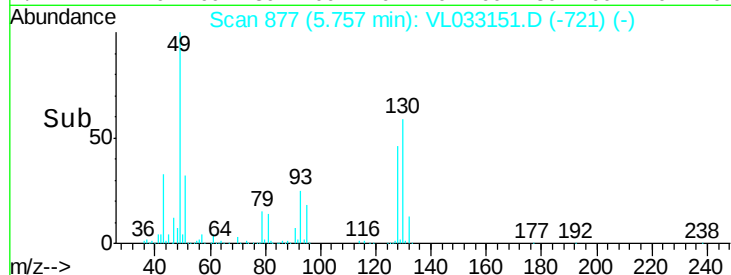
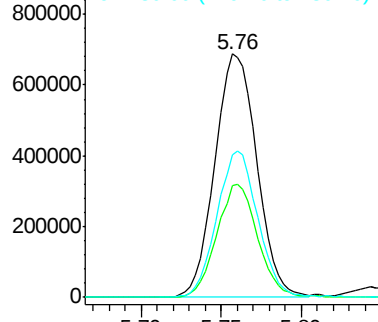
2/5/2019 10:27:04 AM



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: 1.673 ppbv

RT: 3.08 min Scan# 43

Delta R.T. 0.00 min

Lab File: VL033151.D

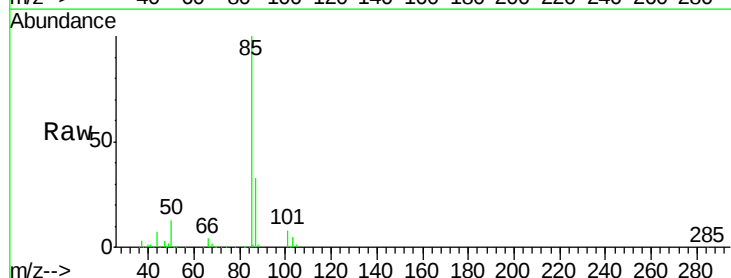
Acq: 4 Feb 2019 10:42

Tgt Ion: 85 Resp: 309708

Ion Ratio Lower Upper

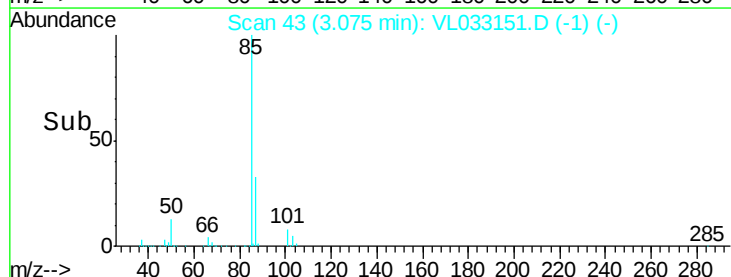
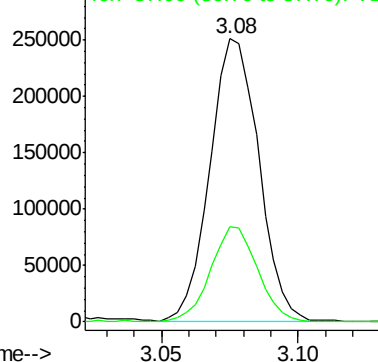
85 100

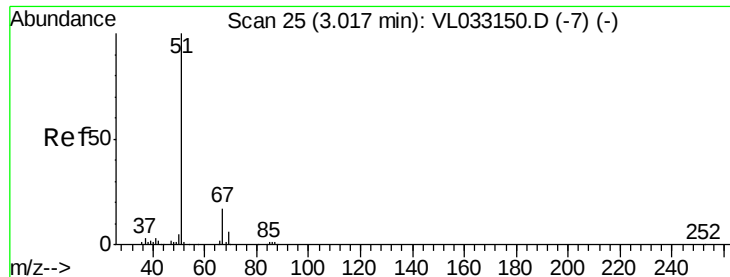
87 33.5 27.4 41.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.610 ppbv

RT: 3.01 min Scan# 24

Delta R.T. 0.00 min

Lab File: VL033151.D

Acq: 4 Feb 2019 10:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 51 Resp: 319656

Ion Ratio Lower Upper

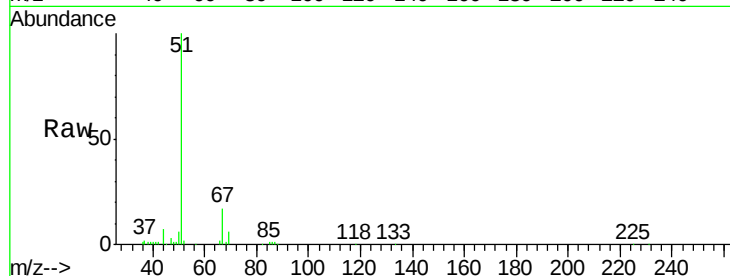
51 100

67 16.8 13.4 20.2

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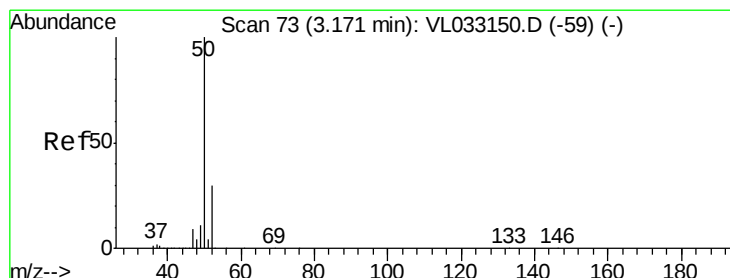
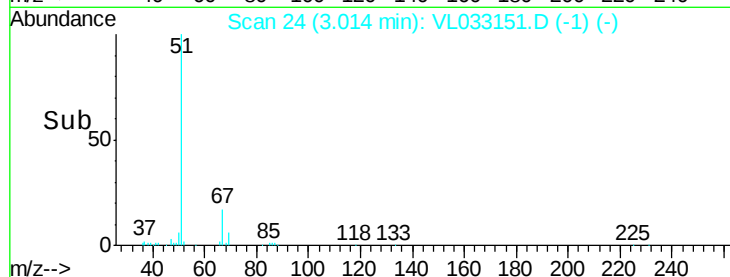
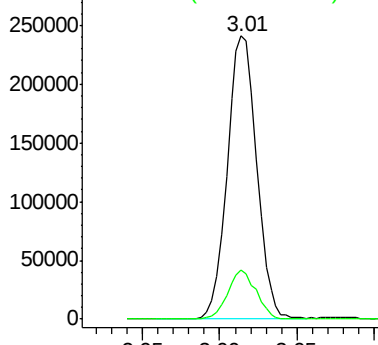
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 1.594 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033151.D

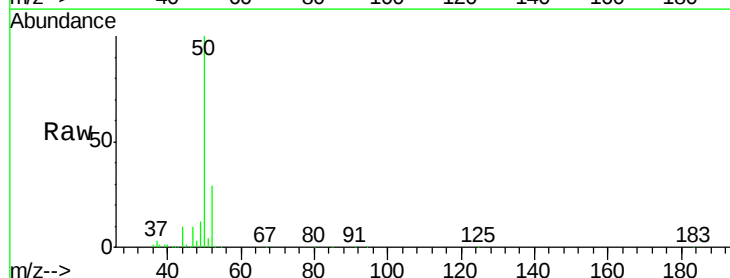
Acq: 4 Feb 2019 10:42

Tgt Ion: 50 Resp: 182207

Ion Ratio Lower Upper

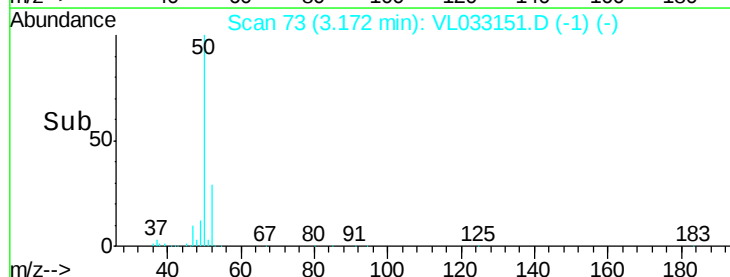
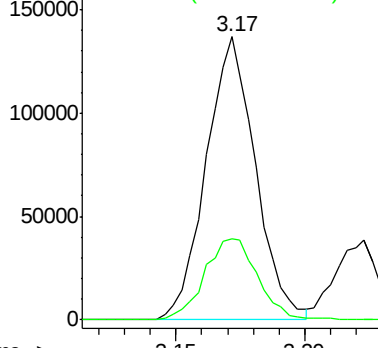
50 100

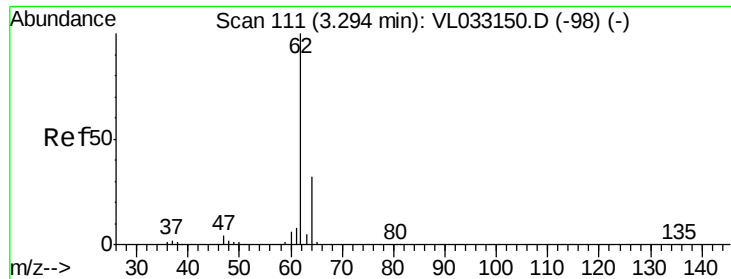
52 28.4 25.7 38.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 1.312 ppbv

RT: 3.29 min Scan# 110

Delta R.T. 0.00 min

Lab File: VL033151.D

Acq: 4 Feb 2019 10:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 62 Resp: 164011

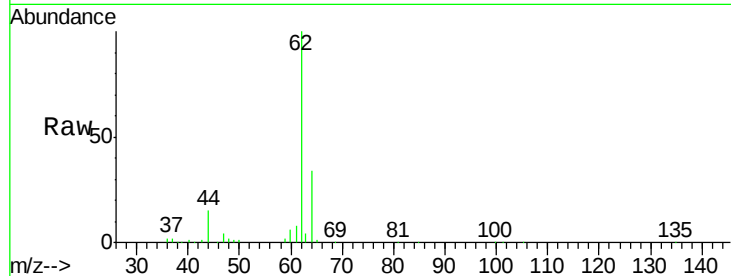
Ion Ratio Lower Upper

62 100

64 33.9 26.3 39.5

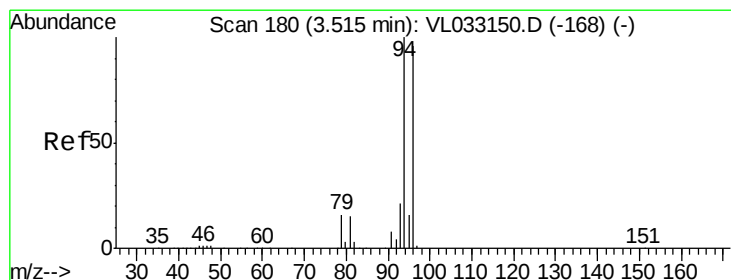
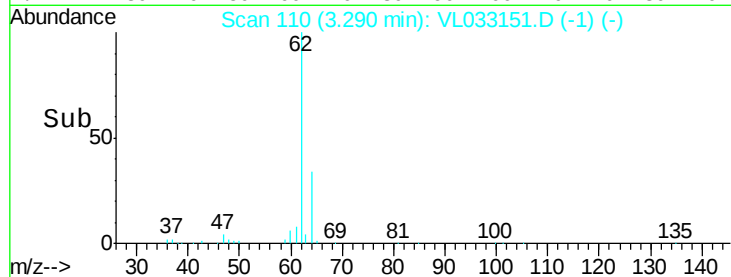
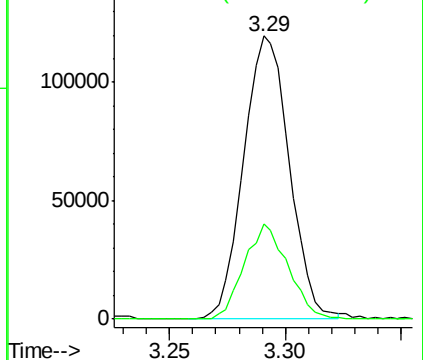
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 1.861 ppbv

RT: 3.51 min Scan# 179

Delta R.T. 0.00 min

Lab File: VL033151.D

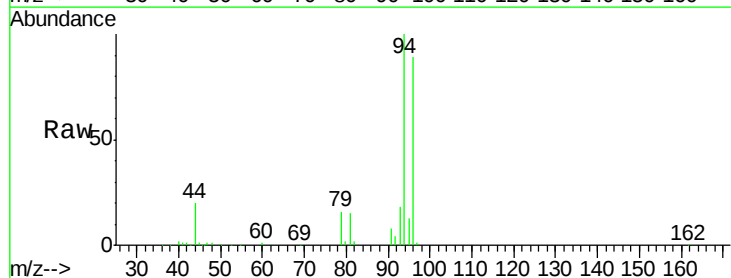
Acq: 4 Feb 2019 10:42

Tgt Ion: 94 Resp: 102529

Ion Ratio Lower Upper

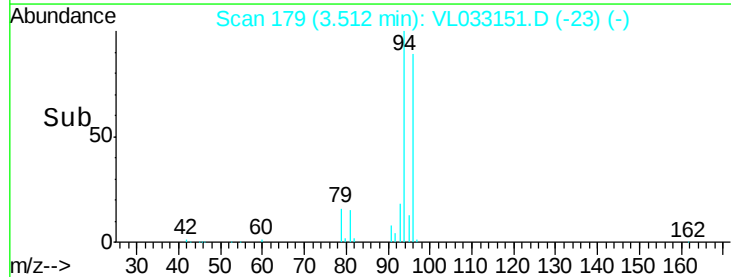
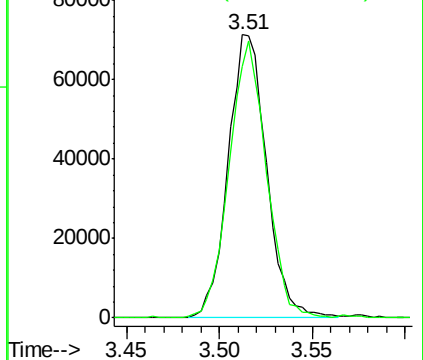
94 100

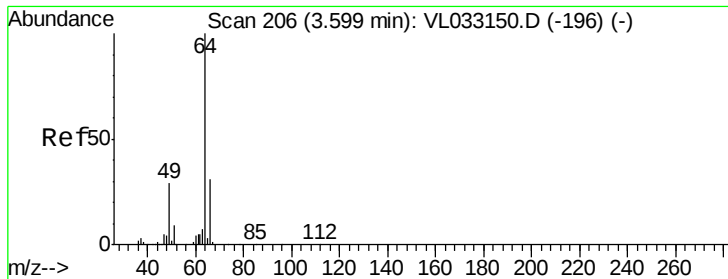
96 88.5 74.0 111.0



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 1.822 ppbv

RT: 3.60 min Scan# 206

Delta R.T. 0.00 min

Lab File: VL033151.D

Acq: 4 Feb 2019 10:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 64 Resp: 61479

Ion Ratio Lower Upper

64 100

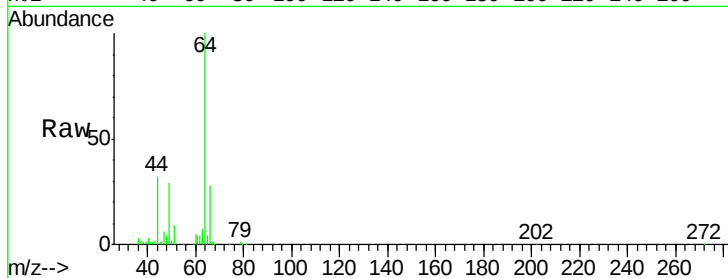
66 28.4 22.3 33.5

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

50000

40000

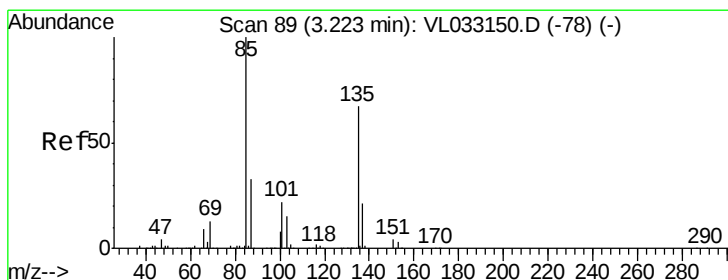
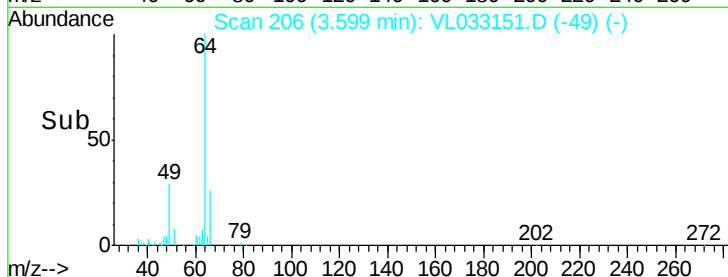
30000

20000

10000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 1.638 ppbv

RT: 3.22 min Scan# 88

Delta R.T. 0.00 min

Lab File: VL033151.D

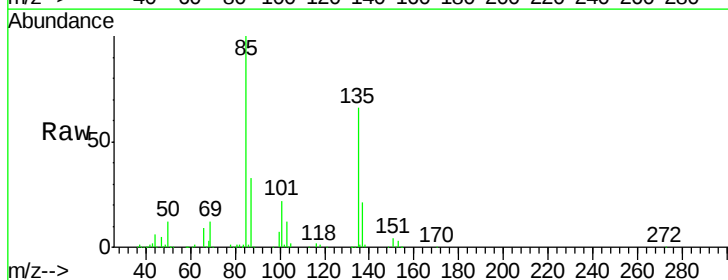
Acq: 4 Feb 2019 10:42

Tgt Ion: 85 Resp: 375057

Ion Ratio Lower Upper

85 100

135 64.5 54.0 81.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.22

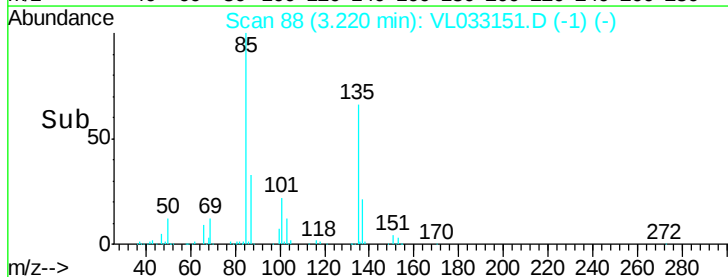
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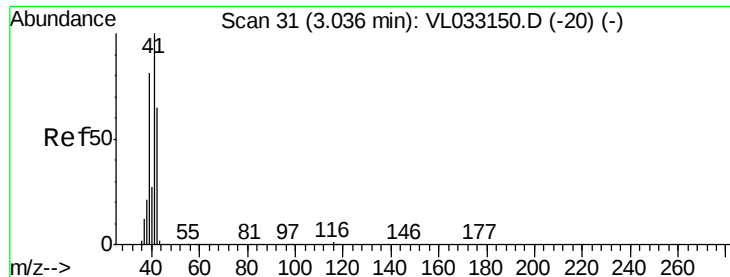
200000

100000

0

Time-->





#9

Propene

Concen: 1.590 ppbv

RT: 3.04 min Scan# 31

Delta R.T. 0.00 min

Lab File: VL033151.D

Acq: 4 Feb 2019 10:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 41 Resp: 161283

Ion Ratio Lower Upper

41 100

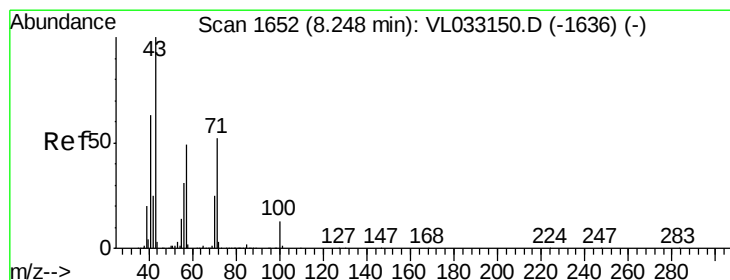
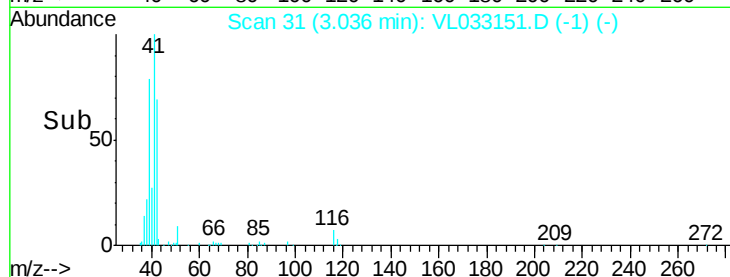
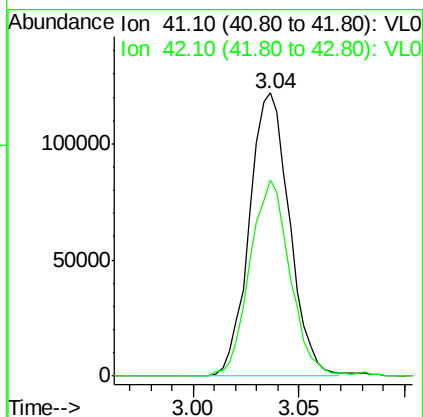
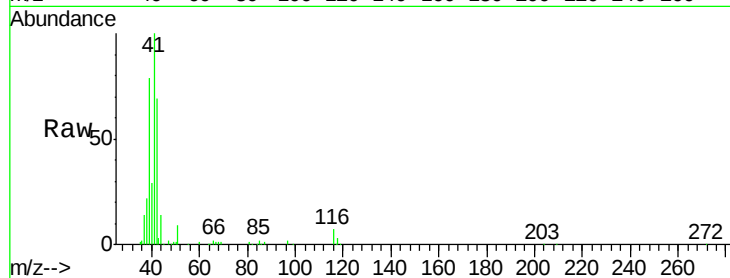
42 69.9 55.1 82.7

Manual Integrations

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#10

Heptane

Concen: 2.601 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. 0.00 min

Lab File: VL033151.D

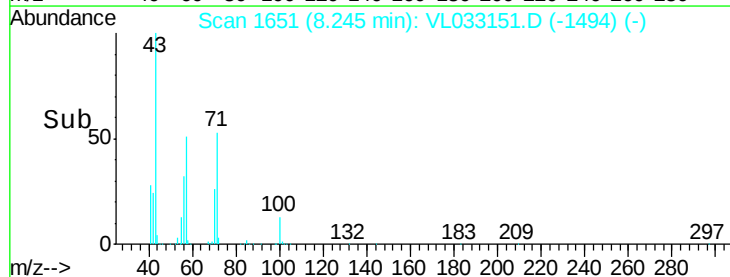
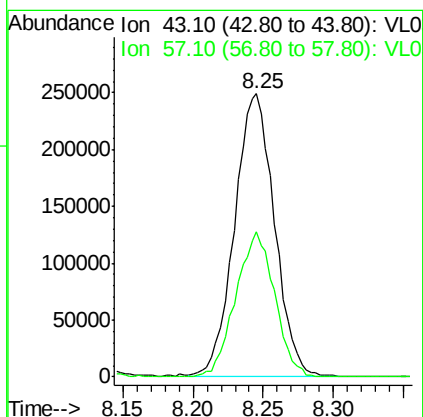
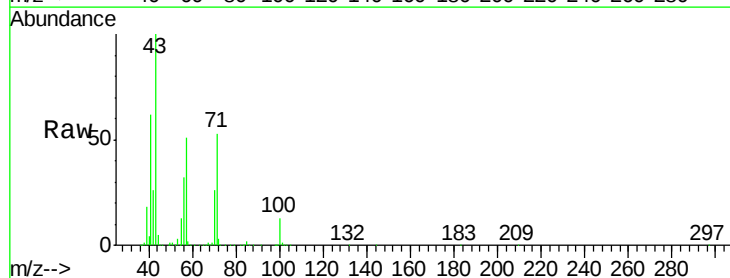
Acq: 4 Feb 2019 10:42

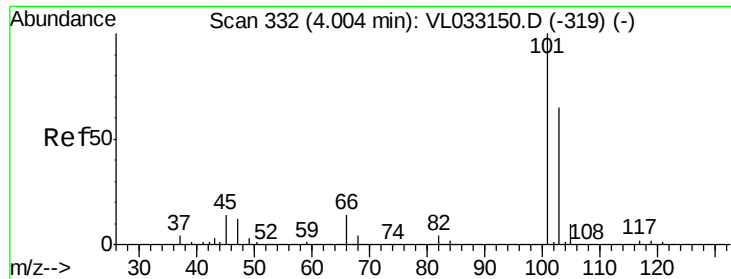
Tgt Ion: 43 Resp: 491625

Ion Ratio Lower Upper

43 100

57 50.3 39.3 58.9





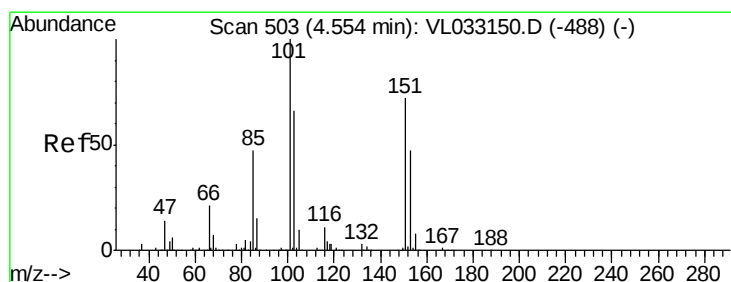
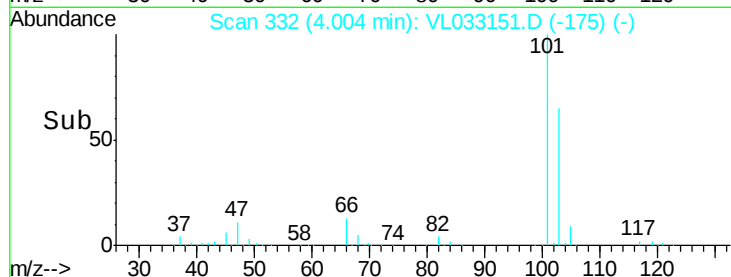
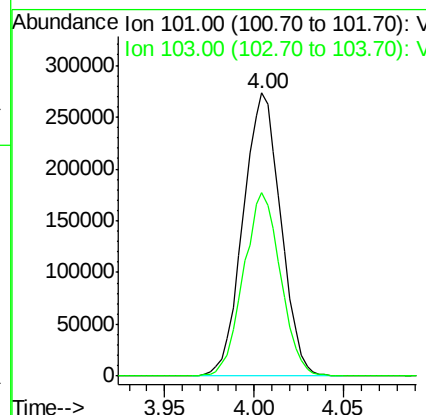
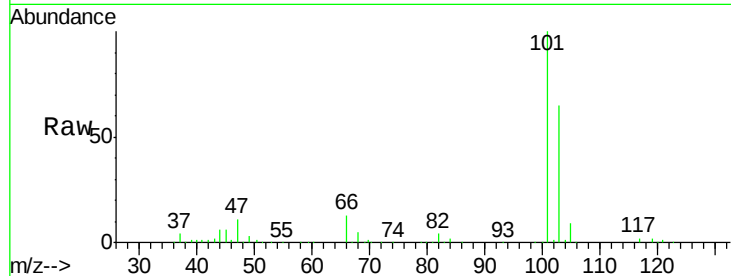
#11
 Trichlorofluoromethane
 Concen: 2.076 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. 0.00 min
 Lab File: VL033151.D
 Acq: 4 Feb 2019 10:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ion	Ratio	Resp	Lower	Upper
404407	101	100			
	103	64.7	51.3	76.9	

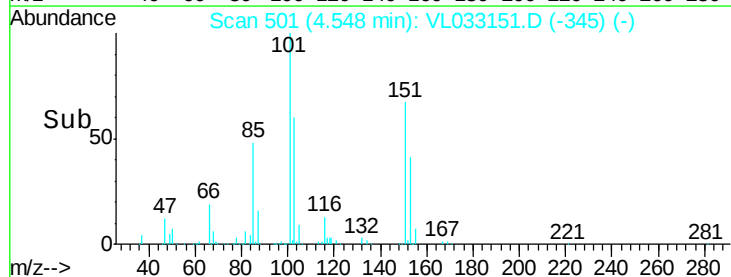
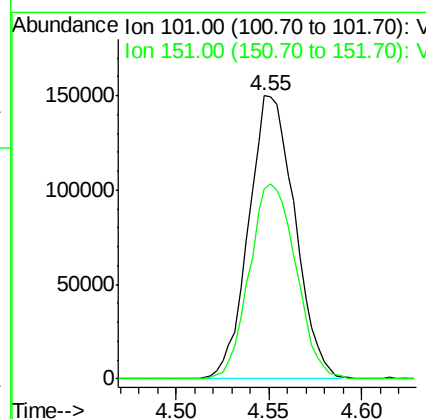
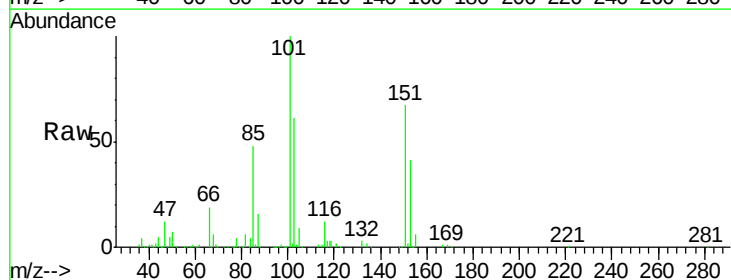
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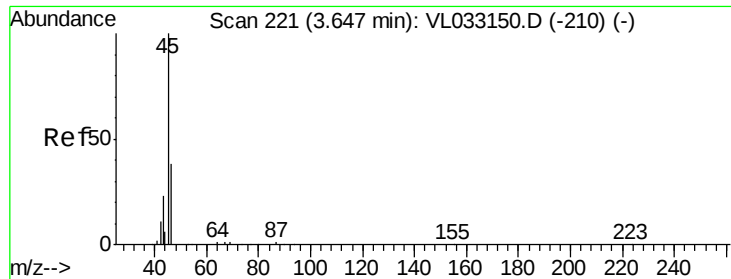
MMDadoda
 2/5/2019 10:27:04 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 2.102 ppbv
 RT: 4.55 min Scan# 501
 Delta R.T. 0.00 min
 Lab File: VL033151.D
 Acq: 4 Feb 2019 10:42

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
260665	101	100			
	151	69.5	57.9	86.9	





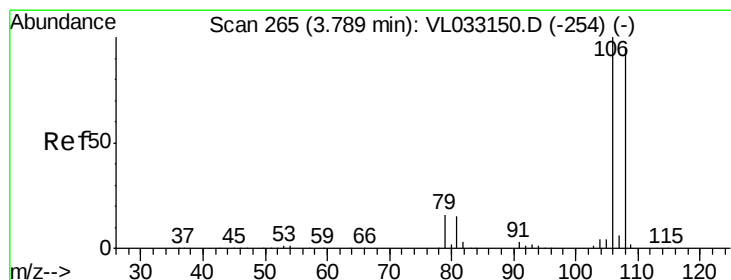
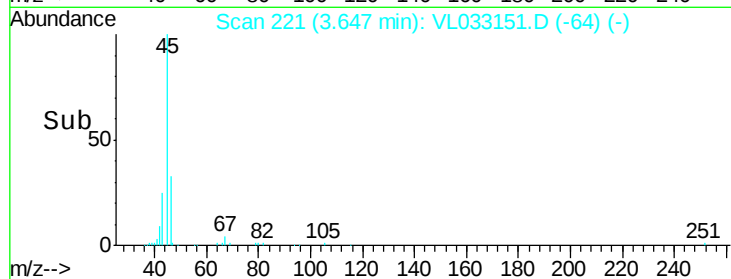
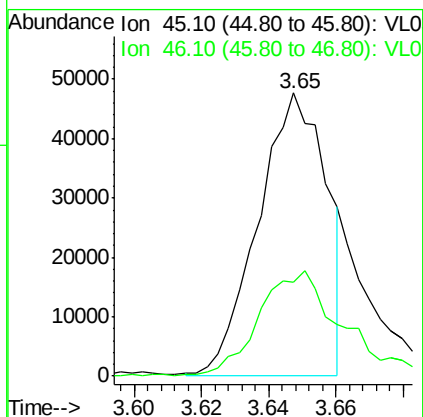
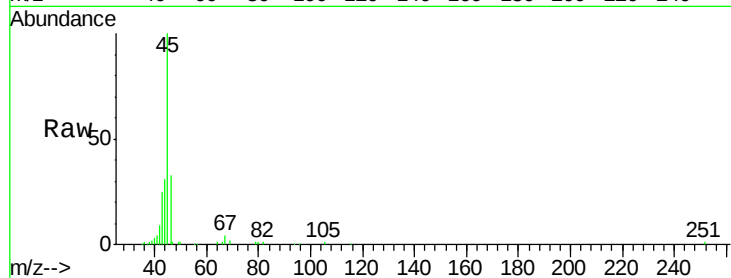
#13
Ethanol
Concen: 2.360 ppbv m
RT: 3.65 min Scan# 221
Delta R.T. 0.00 min
Lab File: VL033151.D
Acq: 4 Feb 2019 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion: 45 Resp: 67737
Ion Ratio Lower Upper
45 100
46 47.6 14.0 56.2

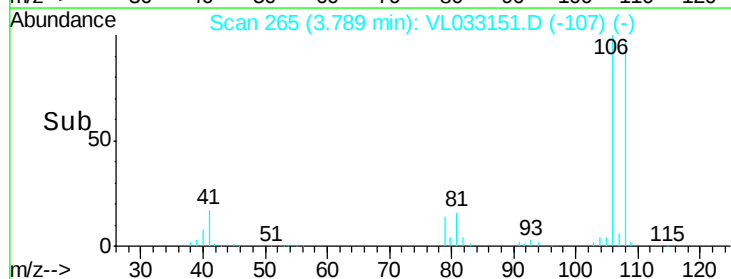
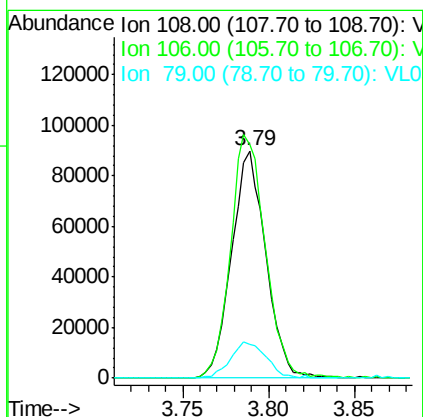
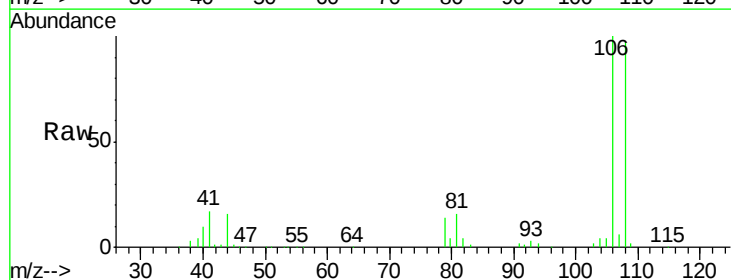
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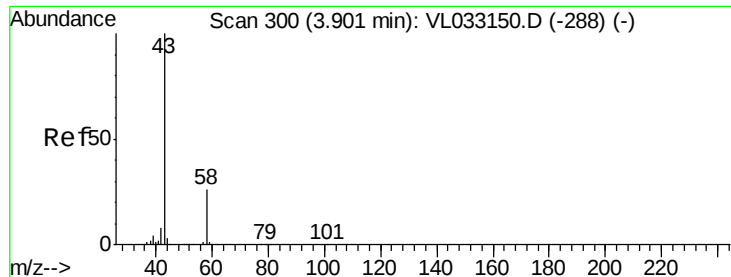
MMDadoda
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#14
Bromoethene
Concen: 1.979 ppbv
RT: 3.79 min Scan# 265
Delta R.T. 0.01 min
Lab File: VL033151.D
Acq: 4 Feb 2019 10:42

Tgt Ion: 108 Resp: 124104
Ion Ratio Lower Upper
108 100
106 109.4 85.6 128.4
79 17.0 14.2 21.4





#15

Acetone

Concen: 2.384 ppbv

RT: 3.90 min Scan# 300

Delta R.T. 0.00 min

Lab File: VL033151.D

Acq: 4 Feb 2019 10:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 43 Resp: 373005

Ion Ratio Lower Upper

43 100

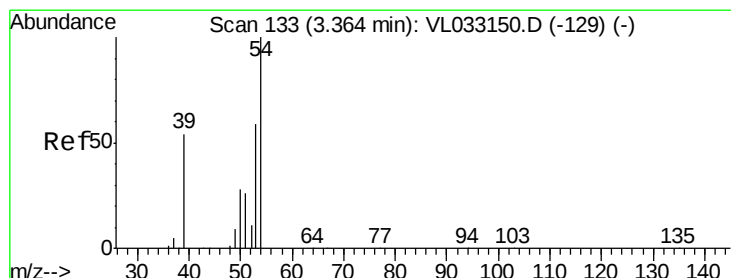
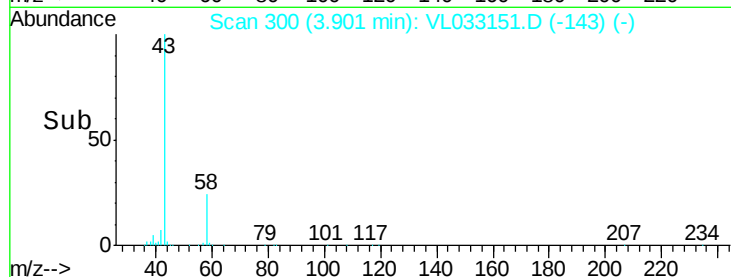
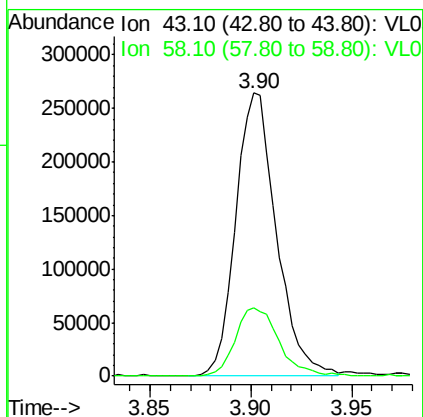
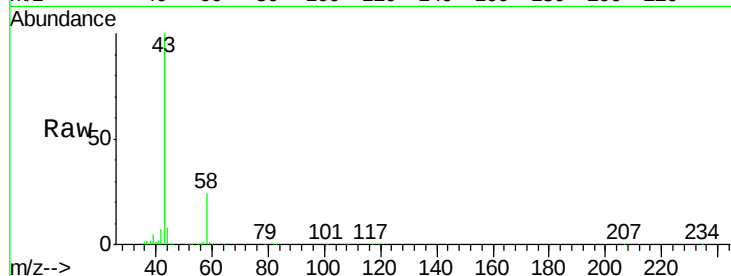
58 26.4 21.8 32.6

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#16

1,3-Butadiene

Concen: 1.856 ppbv

RT: 3.36 min Scan# 133

Delta R.T. 0.00 min

Lab File: VL033151.D

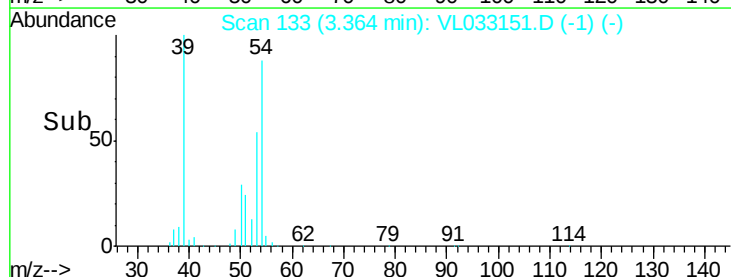
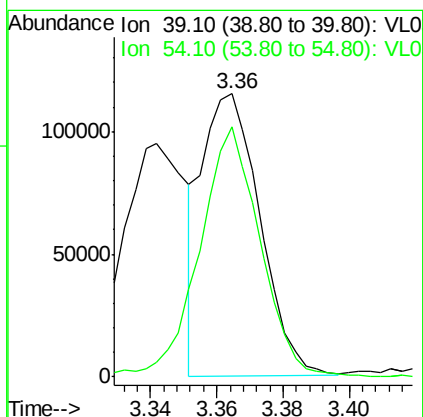
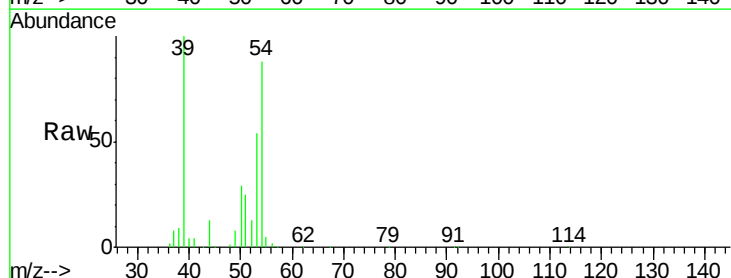
Acq: 4 Feb 2019 10:42

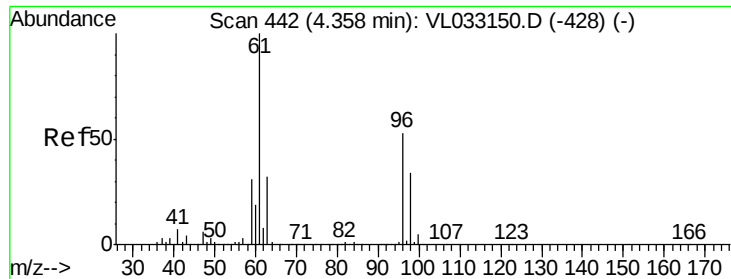
Tgt Ion: 39 Resp: 139249

Ion Ratio Lower Upper

39 100

54 93.7 75.0 112.6





#17

tert-Butyl alcohol

Concen: 1.979 ppbv m

RT: 4.36 min Scan# 443

Delta R.T. 0.01 min

Lab File: VL033151.D

Acq: 4 Feb 2019 10:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 59 Resp: 74657

Ion Ratio Lower Upper

59 100

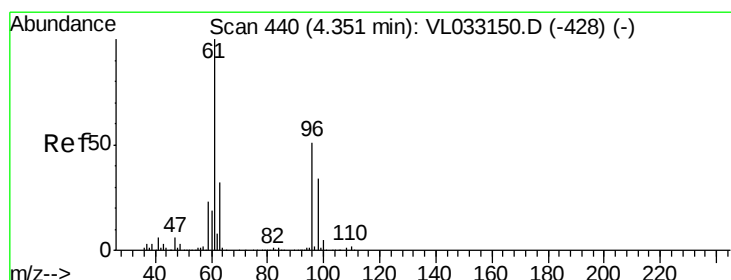
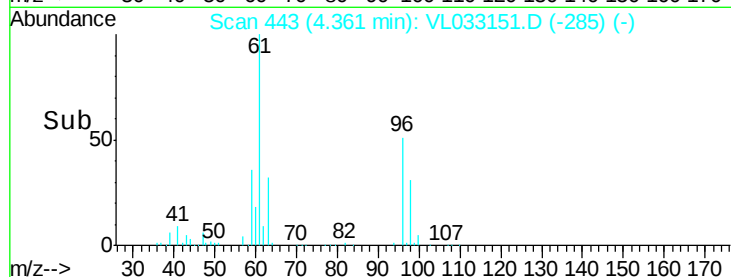
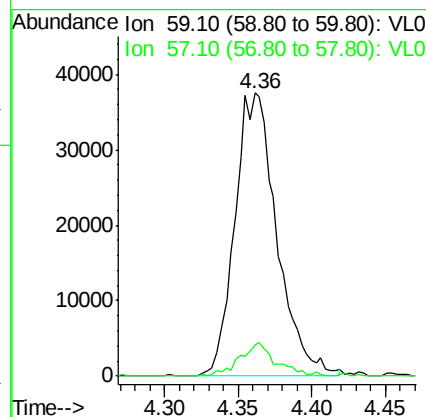
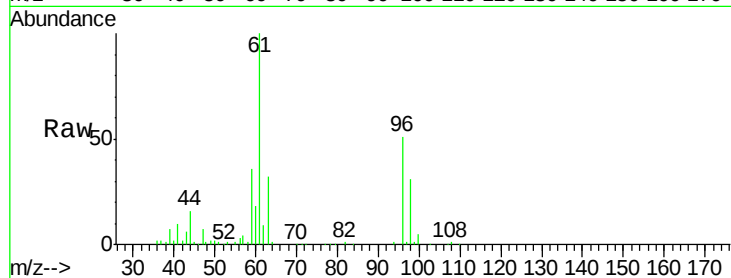
57 0.0 8.0 12.0#

Manual Integrations

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#18

1,1-Dichloroethene

Concen: 1.982 ppbv

RT: 4.35 min Scan# 440

Delta R.T. 0.00 min

Lab File: VL033151.D

Acq: 4 Feb 2019 10:42

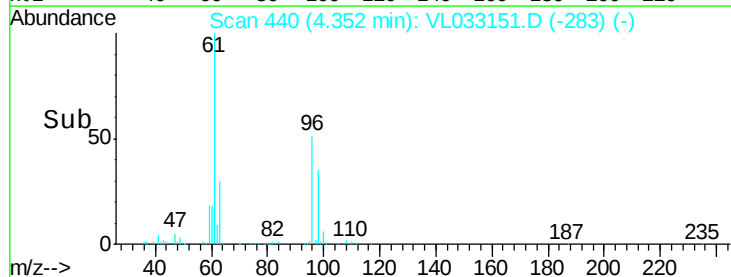
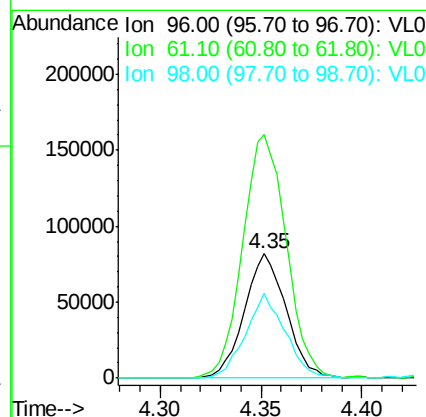
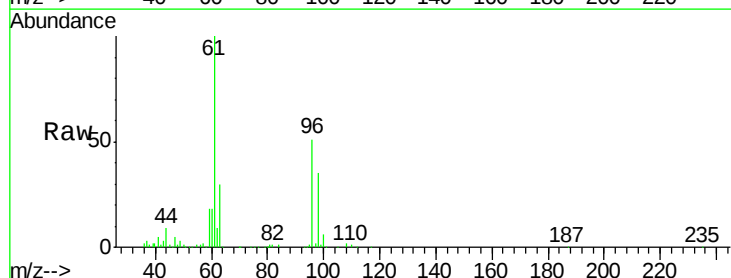
Tgt Ion: 96 Resp: 118707

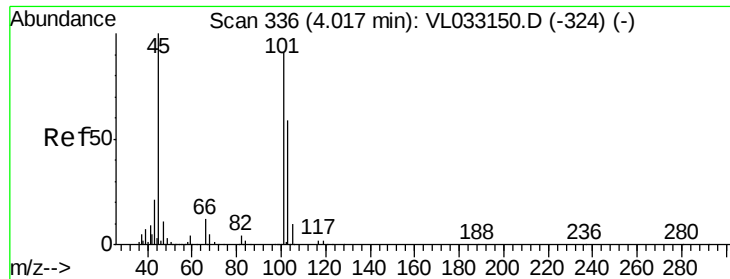
Ion Ratio Lower Upper

96 100

61 195.6 158.5 237.7

98 68.5 47.8 71.6





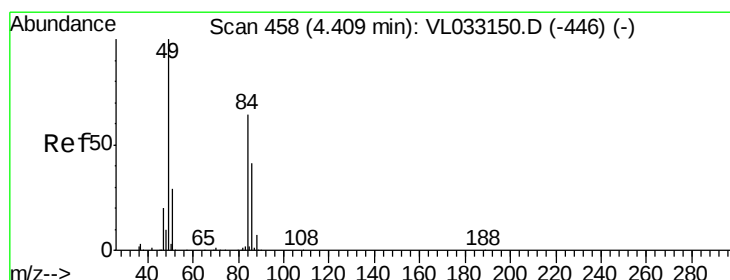
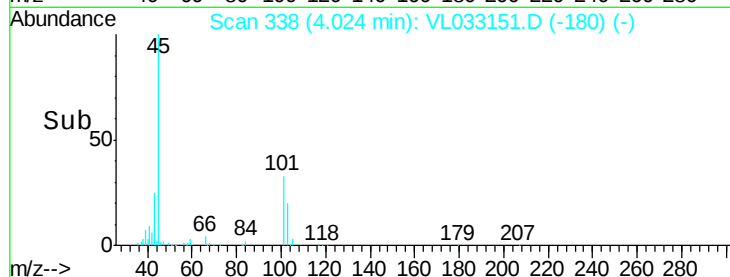
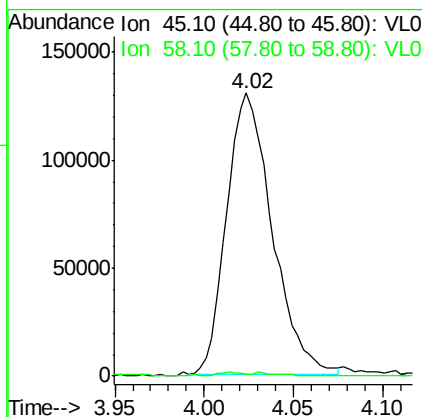
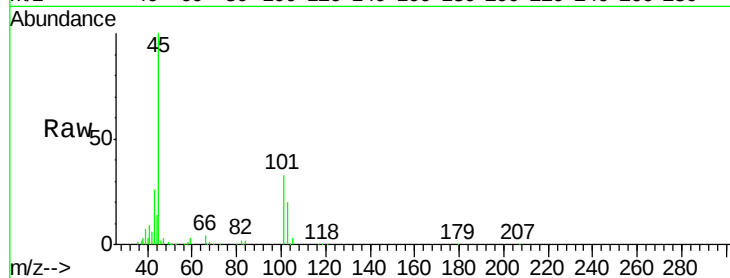
#19
Isopropyl Alcohol
Concen: 1.947 ppbv
RT: 4.02 min Scan# 338
Delta R.T. 0.01 min
Lab File: VL033151.D
Acq: 4 Feb 2019 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion: 45 Resp: 232910
Ion Ratio Lower Upper
45 100
58 1.7 25.1 37.7#

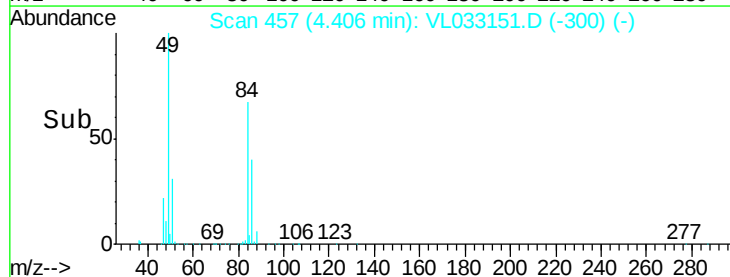
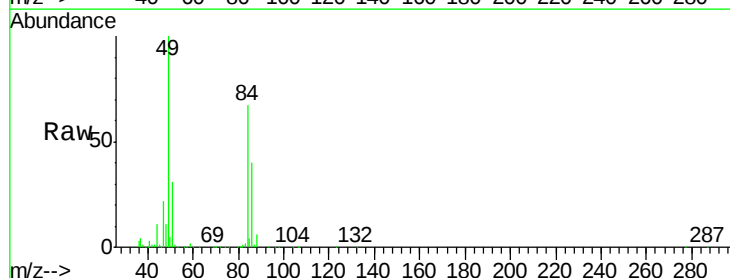
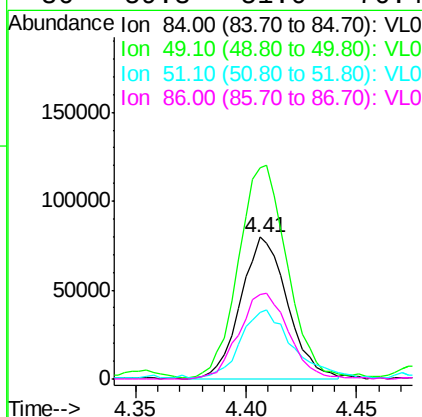
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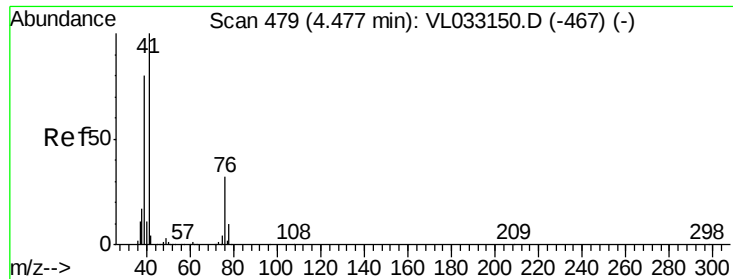
MMDadoda
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#20
Methylene Chloride
Concen: 1.954 ppbv
RT: 4.41 min Scan# 457
Delta R.T. 0.00 min
Lab File: VL033151.D
Acq: 4 Feb 2019 10:42

Tgt Ion: 84 Resp: 118313
Ion Ratio Lower Upper
84 100
49 147.8 121.1 181.7
51 47.2 37.5 56.3
86 59.3 51.0 76.4





#21

Allvl Chloride

Concen: 2.039 ppbv

RT: 4.48 min Scan# 479

Delta R.T. 0.00 min

Lab File: VL033151.D

Acq: 4 Feb 2019 10:42

Instrument :

MSVOA_L

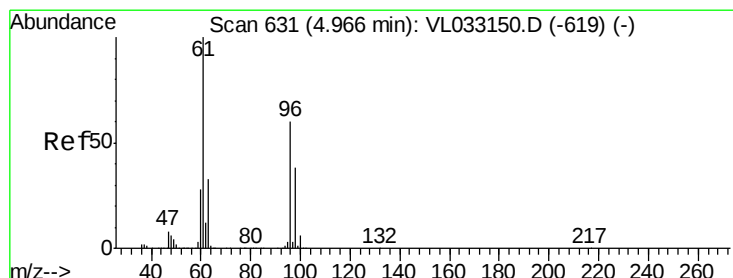
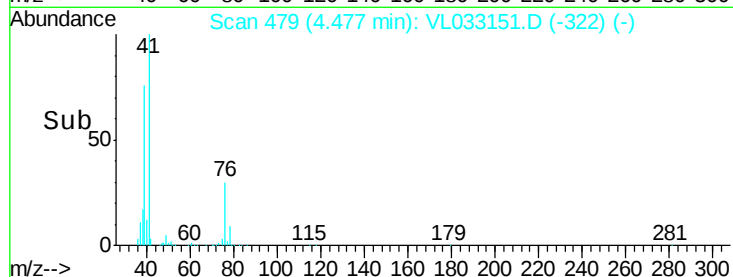
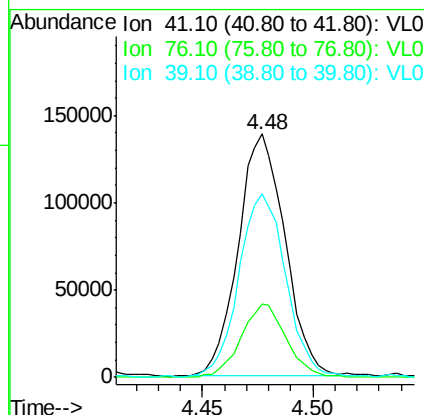
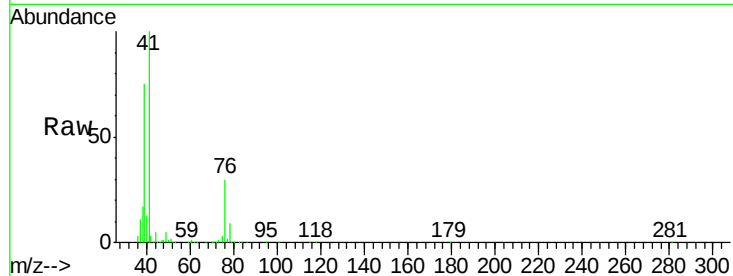
ClientSampleId :

VSTDIC002

Tot Ion:	41	Resp:	204988
Ion	Ratio	Lower	Upper
41	100		
76	29.7	23.2	34.8
39	76.6	61.8	92.6

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#22

trans-1,2-Dichloroethene

Concen: 2.079 ppbv

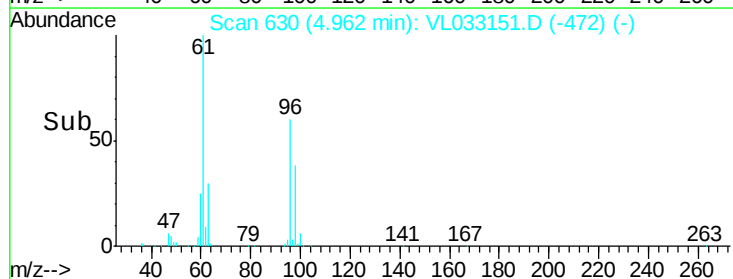
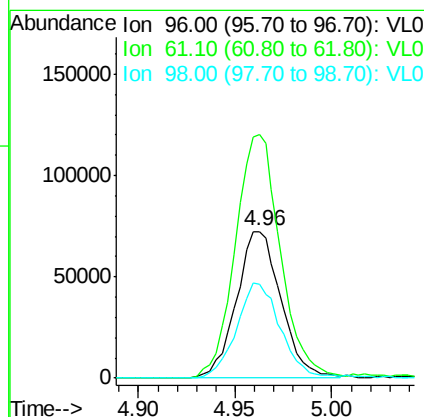
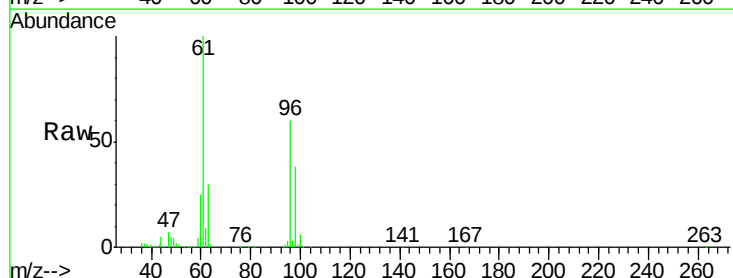
RT: 4.96 min Scan# 630

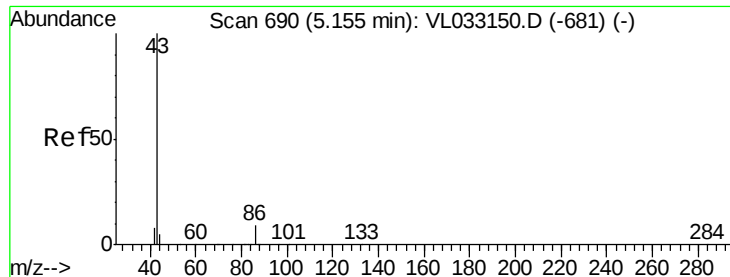
Delta R.T. 0.01 min

Lab File: VL033151.D

Acq: 4 Feb 2019 10:42

Tgt Ion:	96	Resp:	116044
Ion	Ratio	Lower	Upper
96	100		
61	165.4	134.5	201.7
98	63.6	50.2	75.2





#23

Vinyl Acetate

Concen: 2.081 ppbv

RT: 5.15 min Scan# 688

Delta R.T. 0.00 min

Lab File: VL033151.D

Acq: 4 Feb 2019 10:42

Instrument :

MSVOA_L

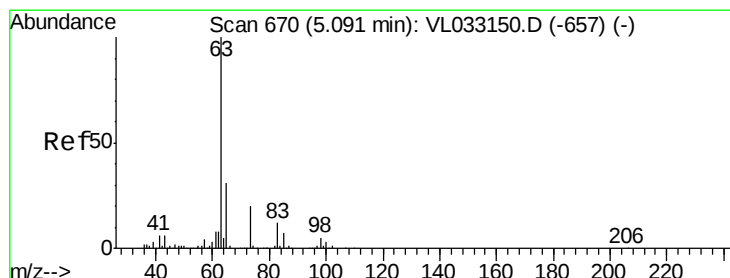
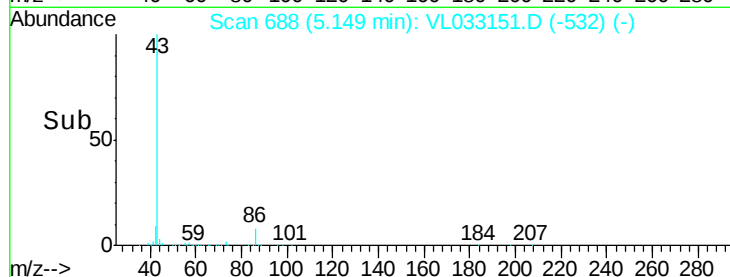
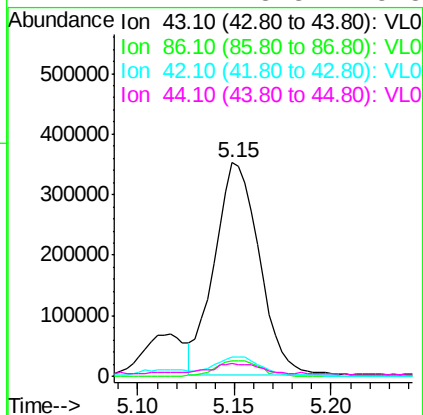
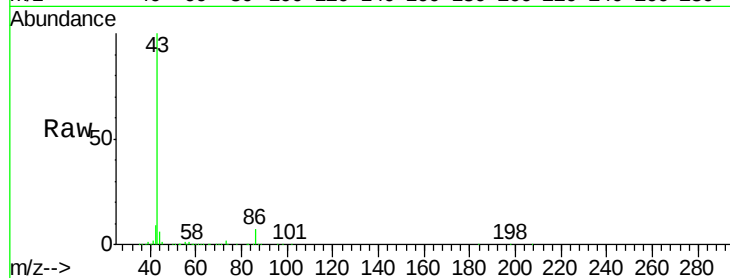
ClientSampleId :

VSTDIC002

Tot Ion	43	Resp	565407
Ion Ratio	Lower	Upper	
43	100		
86	7.5	6.2	9.4
42	9.1	7.7	11.5
44	4.4	3.8	5.8

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#24

1,1-Dichloroethane

Concen: 2.121 ppbv

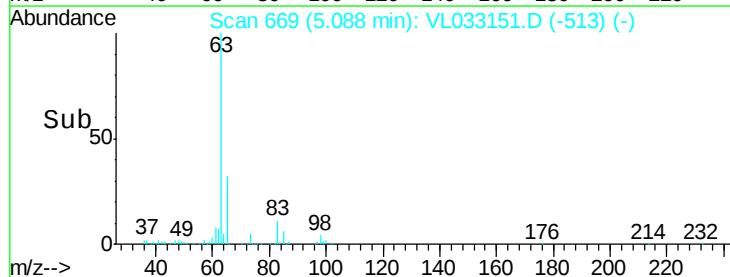
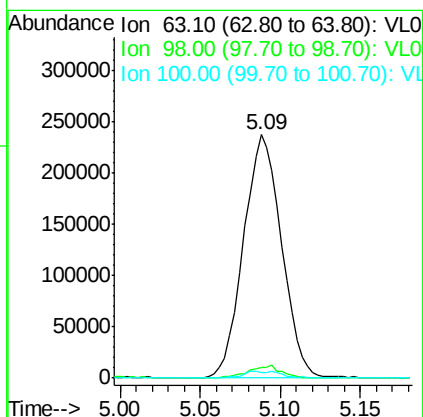
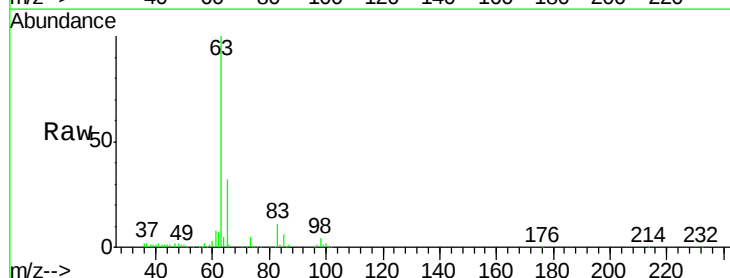
RT: 5.09 min Scan# 669

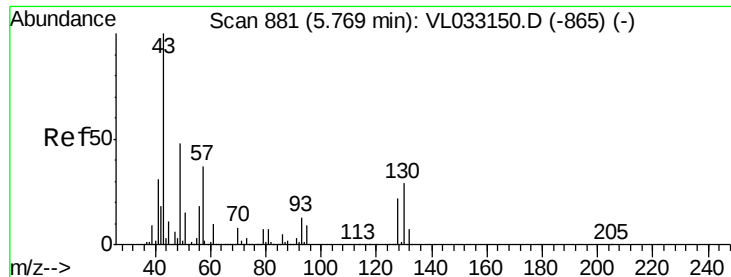
Delta R.T. 0.00 min

Lab File: VL033151.D

Acq: 4 Feb 2019 10:42

Tgt Ion	63	Resp	384497
Ion Ratio	Lower	Upper	
63	100		
98	4.2	2.3	6.9
100	2.3	1.3	3.9





#25

Ethyl Acetate

Concen: 1.988 ppbv

RT: 5.77 min Scan# 881

Delta R.T. 0.01 min

Lab File: VL033151.D

Acq: 4 Feb 2019 10:42

Instrument :

MSVOA_L

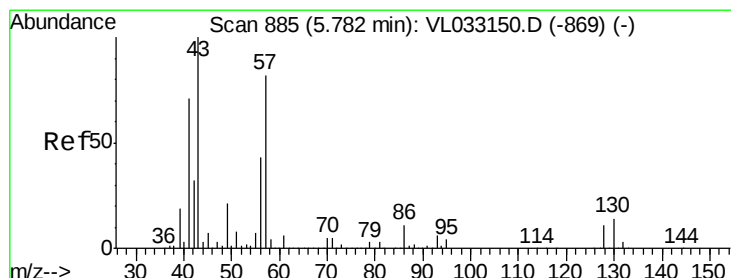
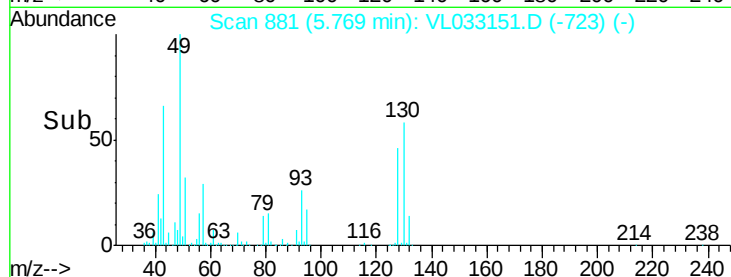
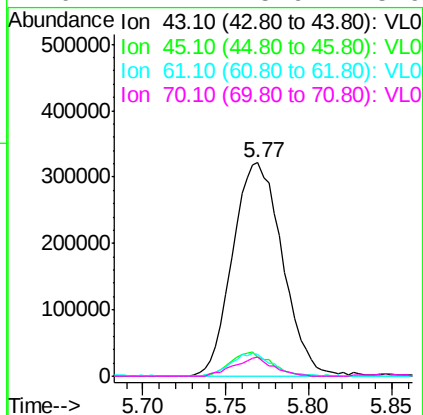
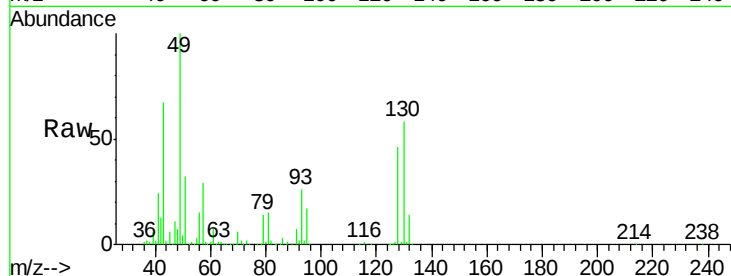
ClientSampleId :

VSTDIC002

Tot Ion:	43	Resp:	666449
Ion	Ratio	Lower	Upper
43	100		
45	9.7	8.0	12.0
61	9.0	7.4	11.2
70	7.1	5.9	8.9

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#26

Hexane

Concen: 1.929 ppbv

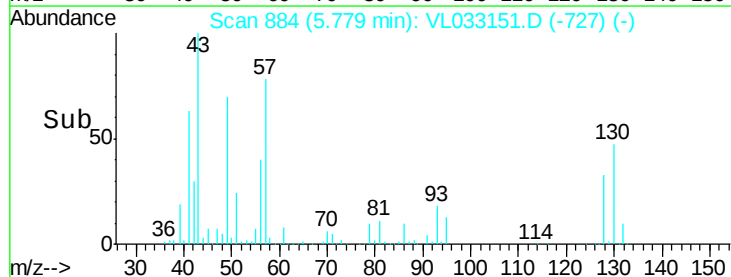
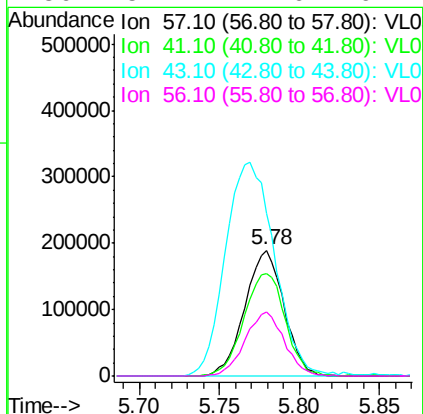
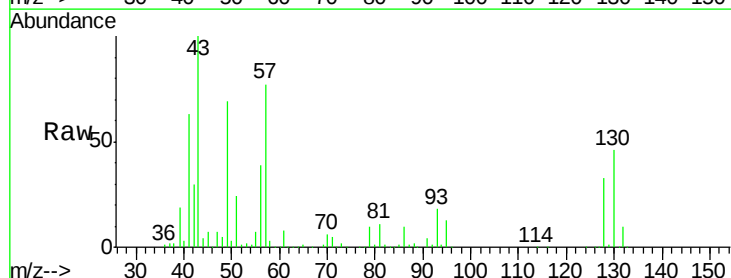
RT: 5.78 min Scan# 884

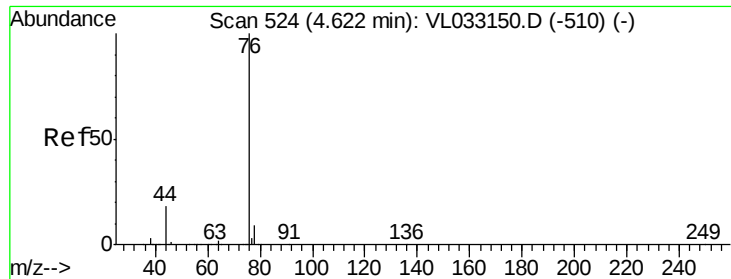
Delta R.T. 0.00 min

Lab File: VL033151.D

Acq: 4 Feb 2019 10:42

Tgt Ion:	57	Resp:	316511
Ion	Ratio	Lower	Upper
57	100		
41	85.8	69.5	104.3
43	213.9	175.5	263.3
56	51.2	41.6	62.4





#27

Carbon Disulfide

Concen: 2.068 ppbv

RT: 4.62 min Scan# 523

Delta R.T. 0.00 min

Lab File: VL033151.D

Acq: 4 Feb 2019 10:42

Instrument :

MSVOA_L

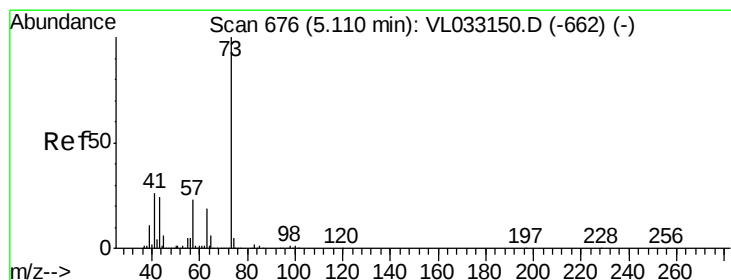
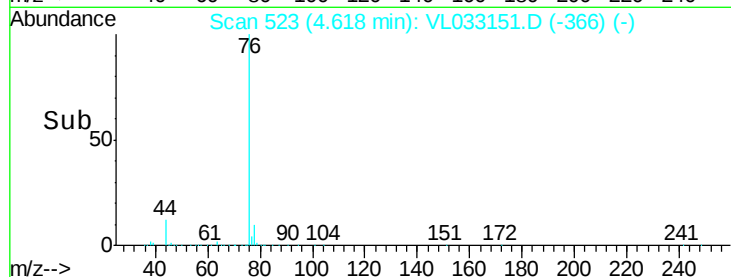
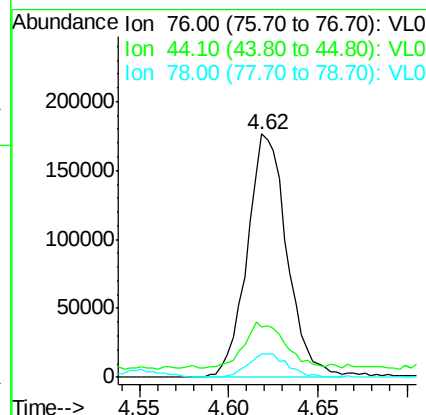
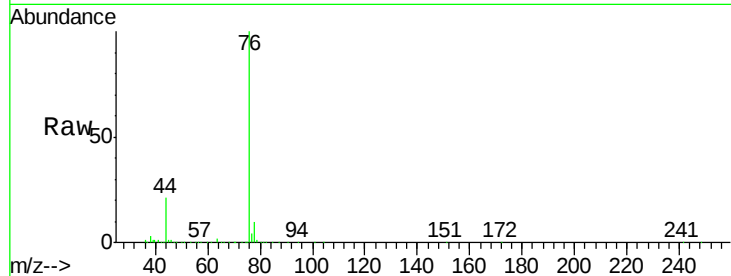
ClientSampleId :

VSTDIC002

Tot Ion:	76	Resp:	273987
Ion	Ratio	Lower	Upper
76	100		
44	19.9	17.1	25.7
78	10.0	7.2	10.8

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#28

Methyl tert-Butyl Ether

Concen: 2.111 ppbv

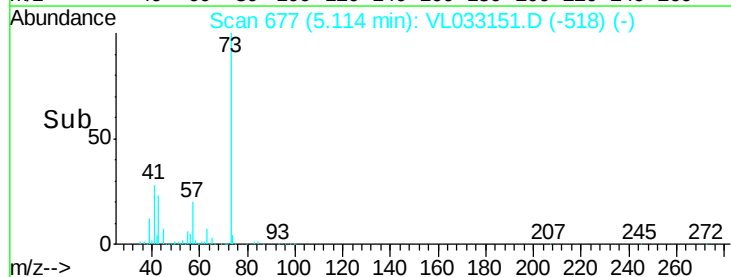
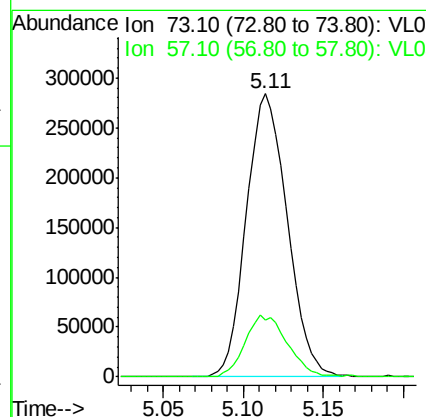
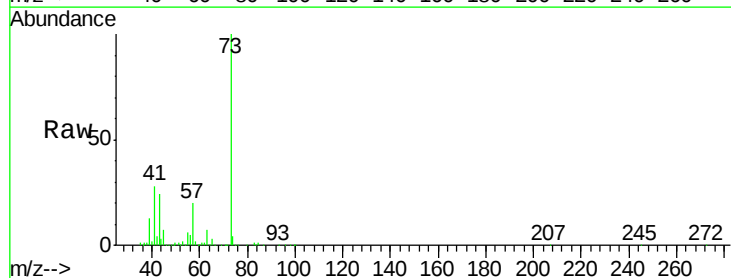
RT: 5.11 min Scan# 677

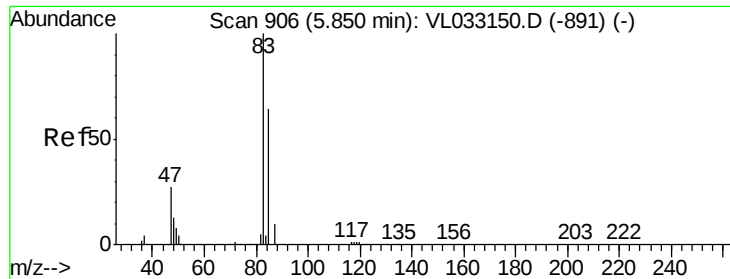
Delta R.T. 0.01 min

Lab File: VL033151.D

Acq: 4 Feb 2019 10:42

Tgt Ion:	73	Resp:	497919
Ion	Ratio	Lower	Upper
73	100		
57	22.7	18.3	27.5





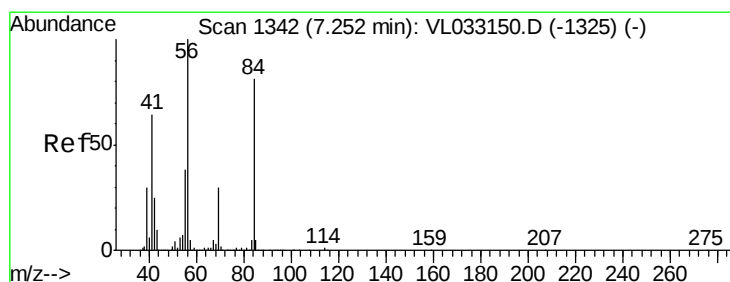
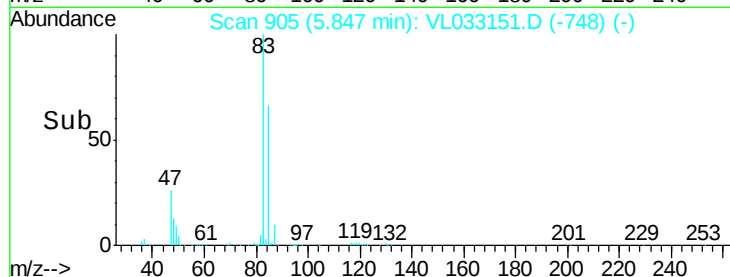
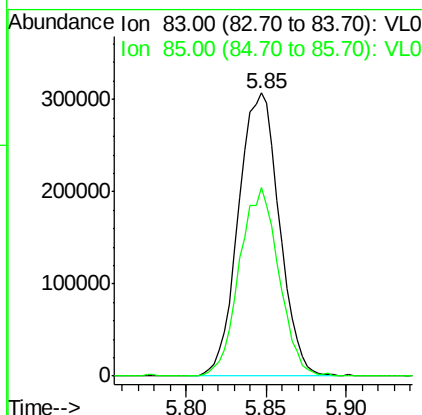
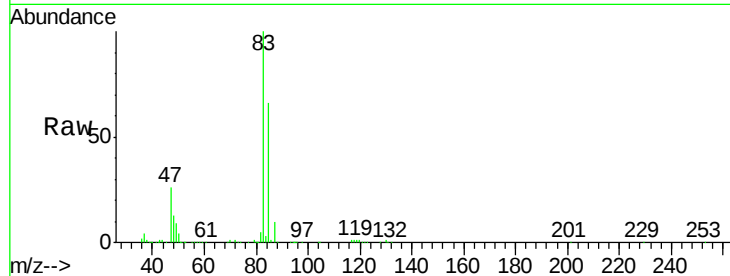
#29
Chloroform
Concen: 2.415 ppbv
RT: 5.85 min Scan# 905
Delta R.T. 0.00 min
Lab File: VL033151.D
Acq: 4 Feb 2019 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
83	100		
85	66.3	51.6	77.4

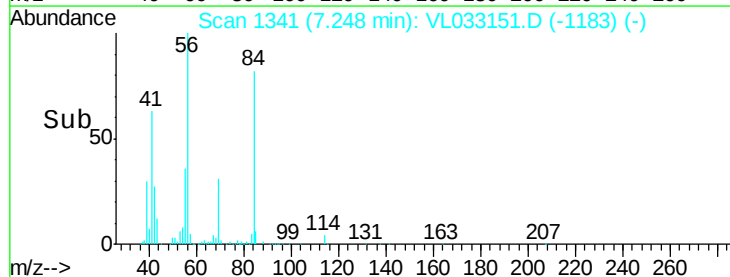
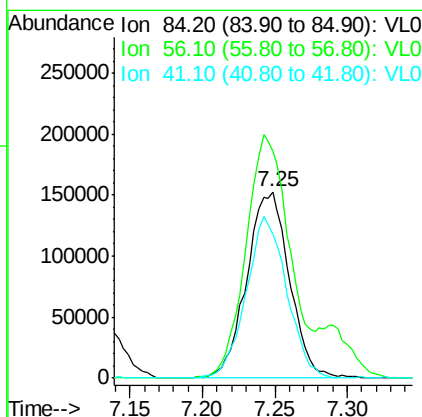
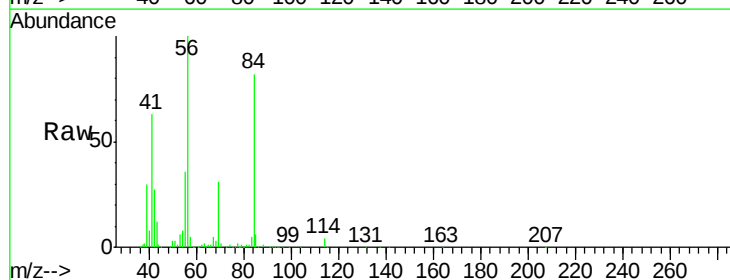
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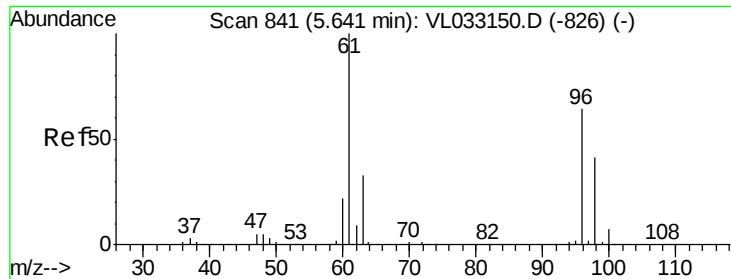
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#30
Cyclohexane
Concen: 2.454 ppbv
RT: 7.25 min Scan# 1341
Delta R.T. 0.01 min
Lab File: VL033151.D
Acq: 4 Feb 2019 10:42

Tgt Ion	Ratio	Lower	Upper
84	100		
56	155.0	109.0	163.4
41	83.0	65.3	97.9





#31

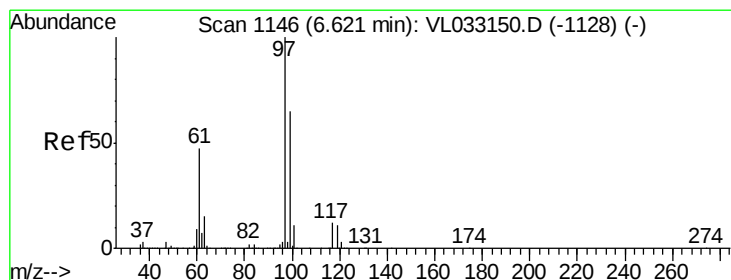
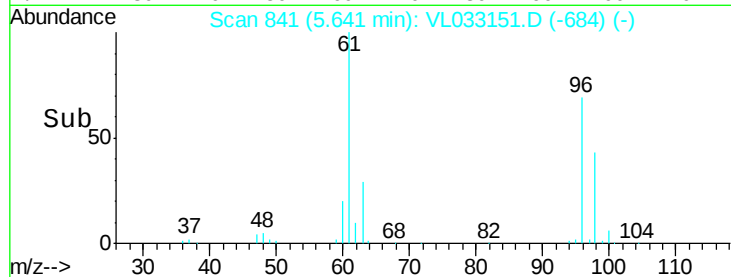
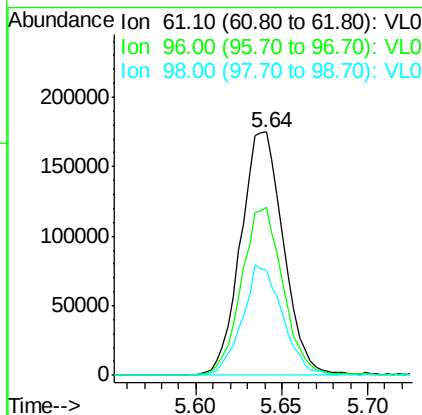
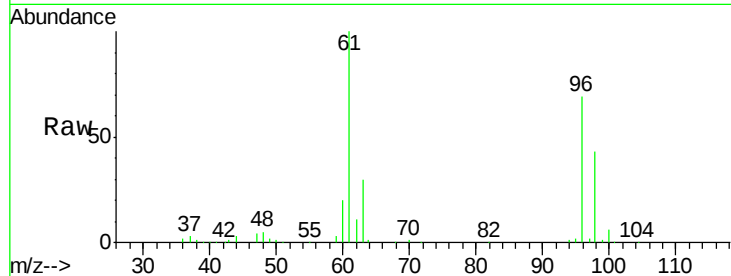
cis-1,2-Dichloroethene
 Concen: 2.024 ppbv
 RT: 5.64 min Scan# 841
 Delta R.T. 0.00 min
 Lab File: VL033151.D
 Acq: 4 Feb 2019 10:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
61	100	303260		
96	68.8	53.3	79.9	
98	43.3	33.7	50.5	

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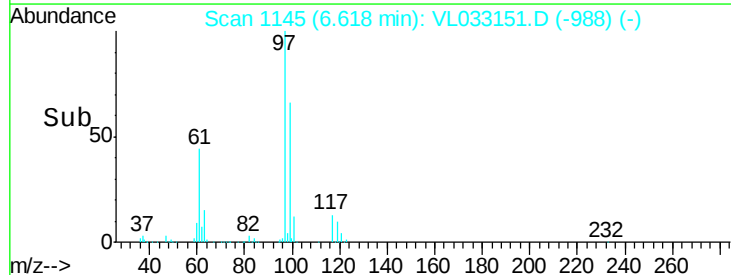
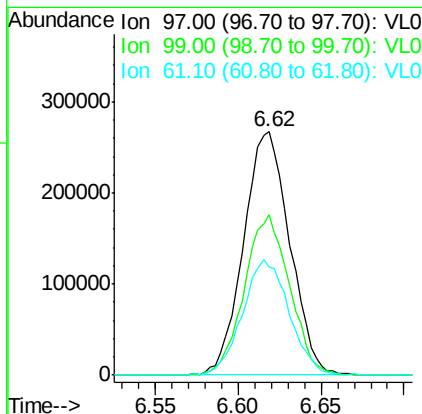
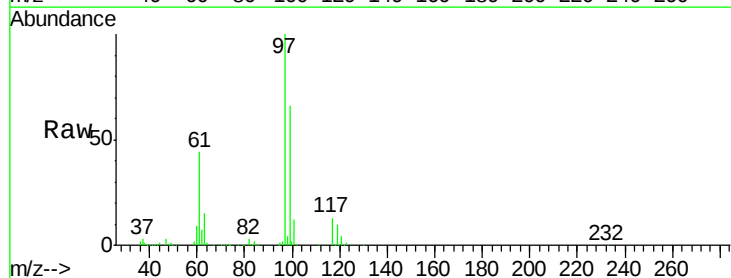
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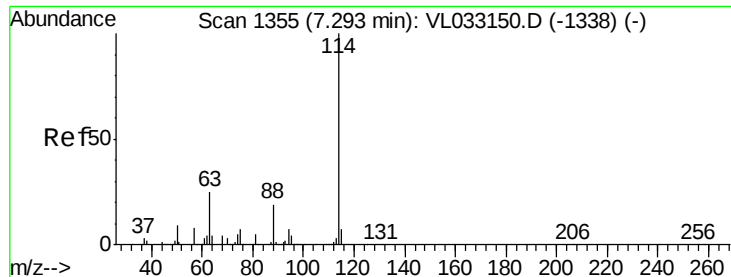


#32

1,1,1-Trichloroethane
 Concen: 2.256 ppbv
 RT: 6.62 min Scan# 1145
 Delta R.T. 0.00 min
 Lab File: VL033151.D
 Acq: 4 Feb 2019 10:42

Tgt Ion	Ratio	Resp	Lower	Upper
97	100	516289		
99	64.4	65.1	97.7#	
61	47.8	47.7	71.5	





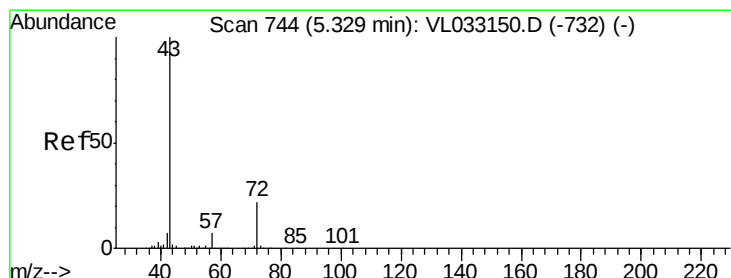
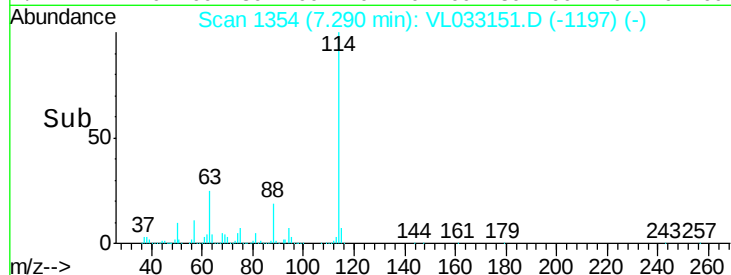
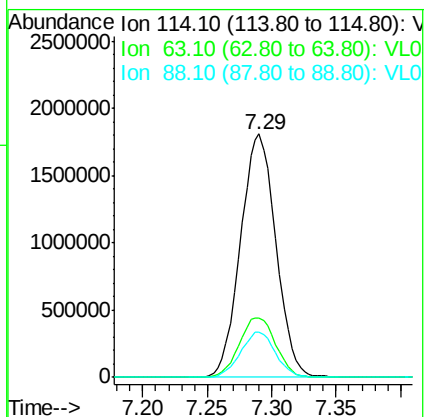
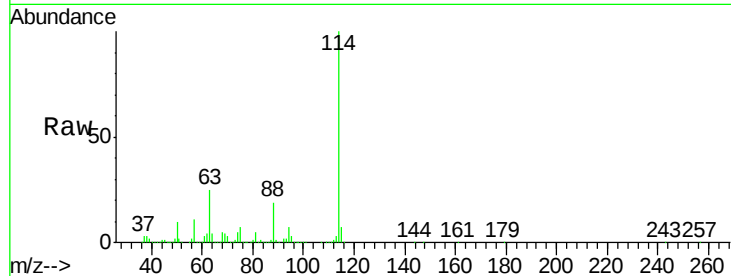
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1354
 Delta R.T. 0.00 min
 Lab File: VL033151.D
 Acq: 4 Feb 2019 10:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
114	100		
63	25.5	20.0	30.0
88	18.5	14.4	21.6

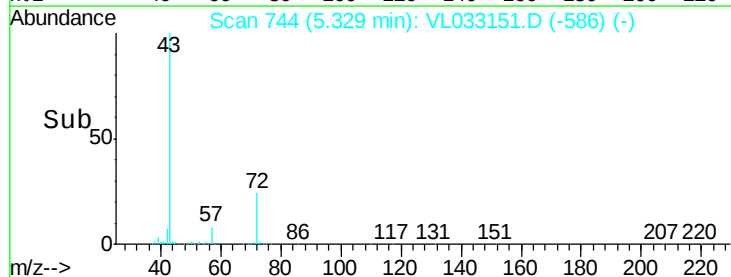
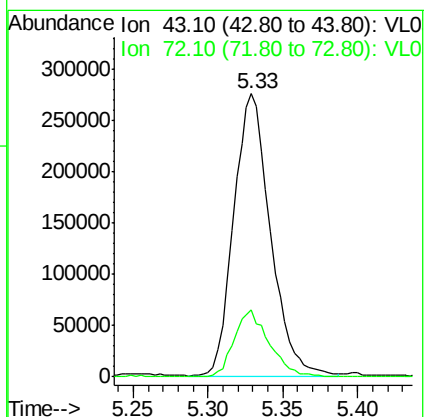
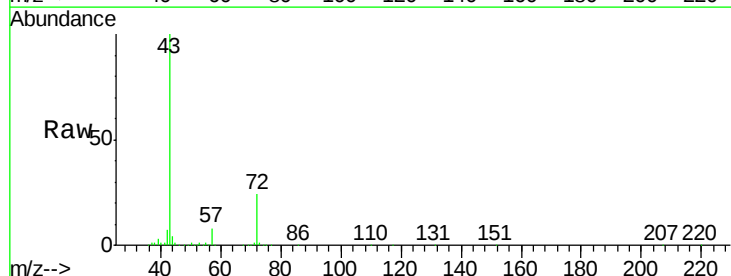
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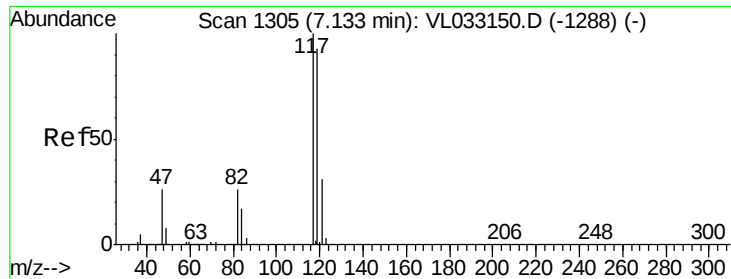
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#34
 2-Butanone
 Concen: 1.770 ppbv
 RT: 5.33 min Scan# 744
 Delta R.T. 0.01 min
 Lab File: VL033151.D
 Acq: 4 Feb 2019 10:42

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.9	17.9	26.9





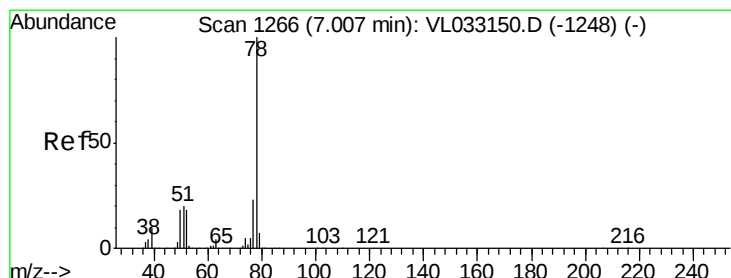
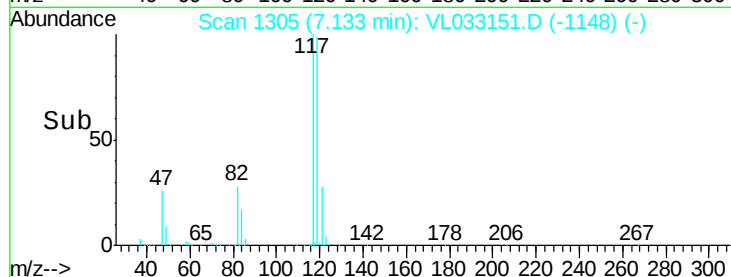
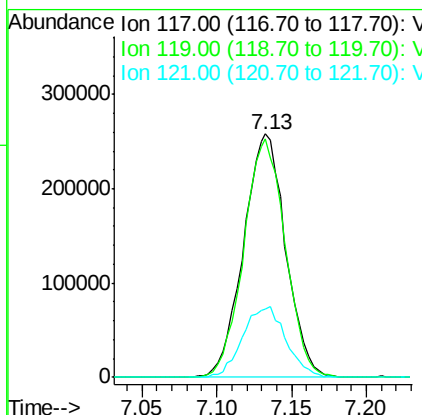
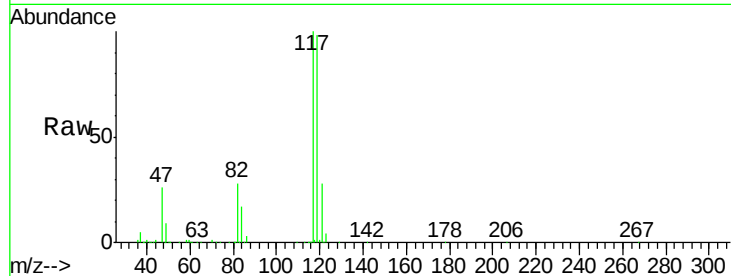
#35
Carbon Tetrachloride
Concen: 1.946 ppbv
RT: 7.13 min Scan# 1305
Delta R.T. 0.00 min
Lab File: VL033151.D
Acq: 4 Feb 2019 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
117	100		
119	97.8	76.6	114.8
121	28.3	25.0	37.4

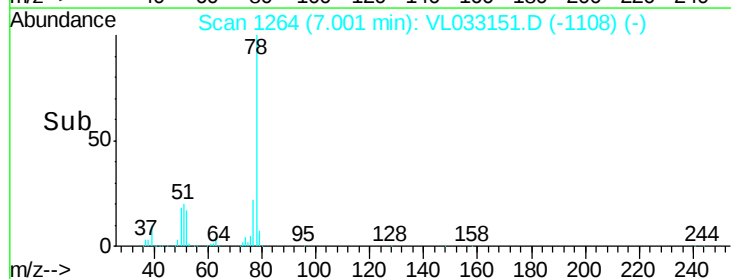
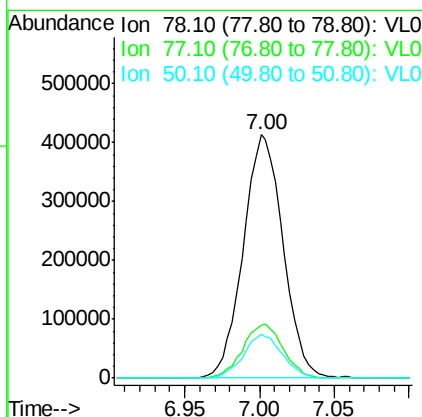
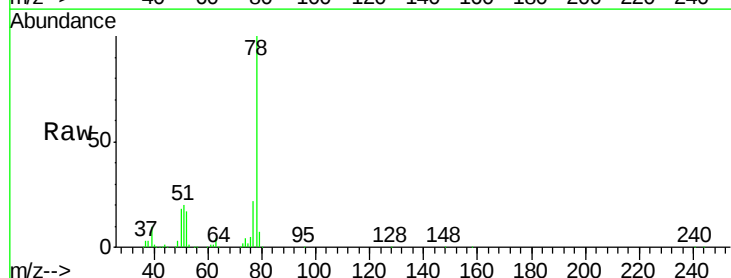
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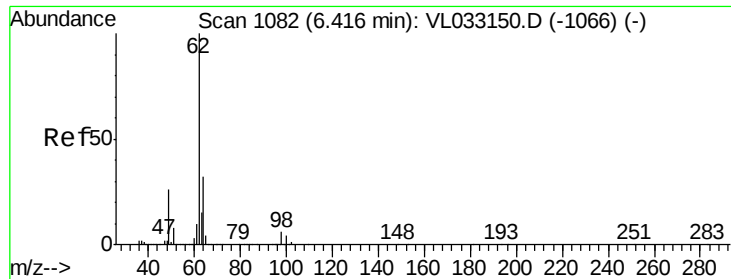
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#36
Benzene
Concen: 1.969 ppbv
RT: 7.00 min Scan# 1264
Delta R.T. 0.00 min
Lab File: VL033151.D
Acq: 4 Feb 2019 10:42

Tgt Ion	Ratio	Lower	Upper
78	100		
77	21.6	17.8	26.6
50	17.8	14.7	22.1





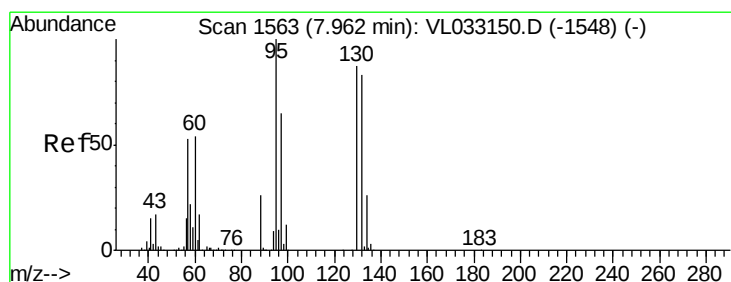
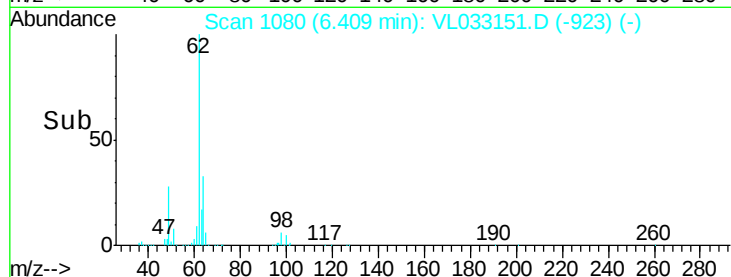
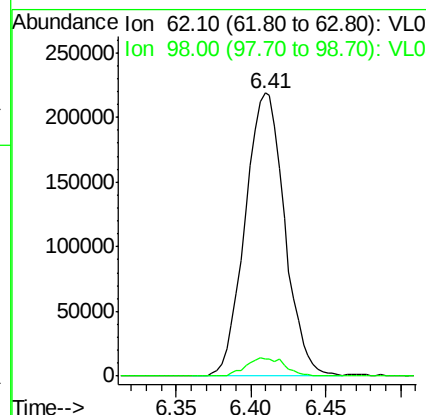
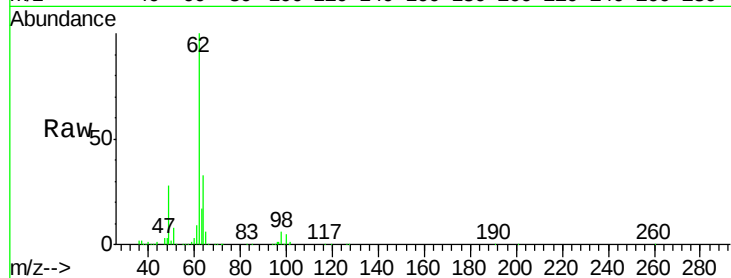
#37
 1,2-Dichloroethane
 Concen: 2.037 ppbv
 RT: 6.41 min Scan# 1080
 Delta R.T. 0.00 min
 Lab File: VL033151.D
 Acq: 4 Feb 2019 10:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
62	100	402568		
98	6.4	5.3	7.9	

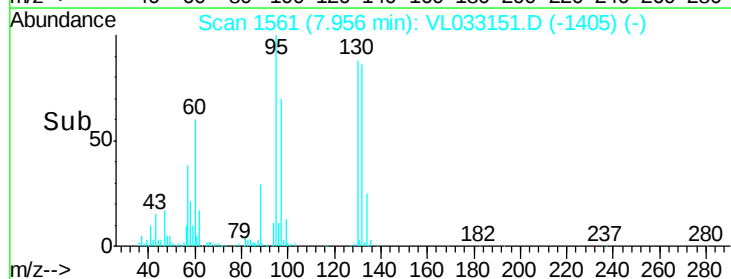
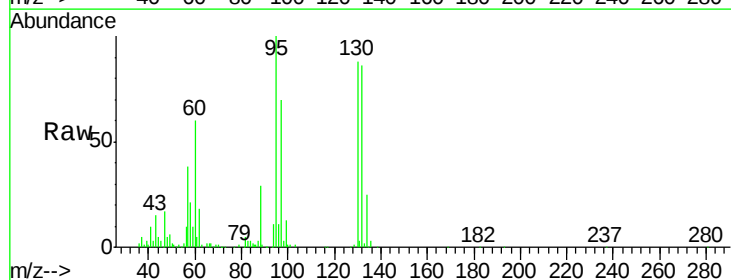
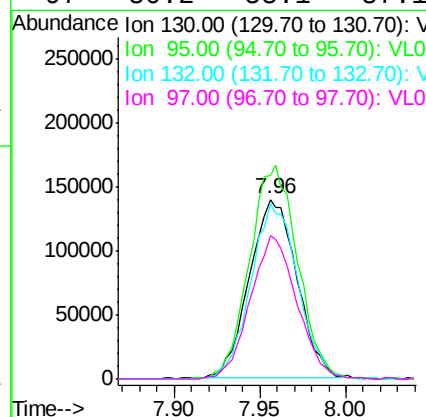
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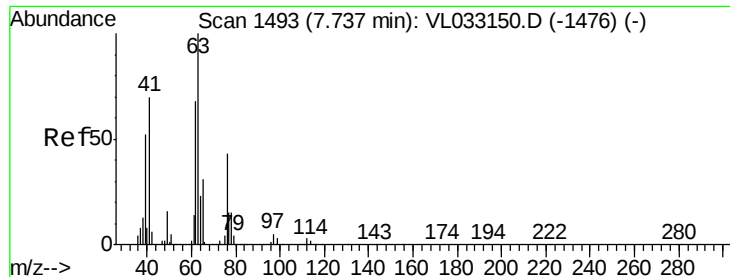
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#38
 Trichloroethene
 Concen: 1.711 ppbv
 RT: 7.96 min Scan# 1561
 Delta R.T. 0.00 min
 Lab File: VL033151.D
 Acq: 4 Feb 2019 10:42

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	267342		
95	113.9	91.6	137.4	
132	98.0	79.0	118.4	
97	80.2	58.1	87.1	





#39

1,2-Dichloropropane

Concen: 2.094 ppbv

RT: 7.73 min Scan# 1492

Delta R.T. 0.00 min

Lab File: VL033151.D

Acq: 4 Feb 2019 10:42

Instrument :

MSVOA_L

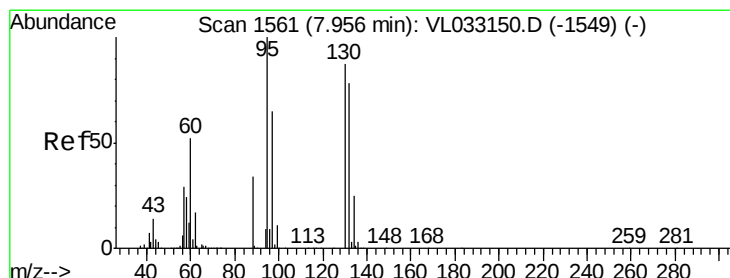
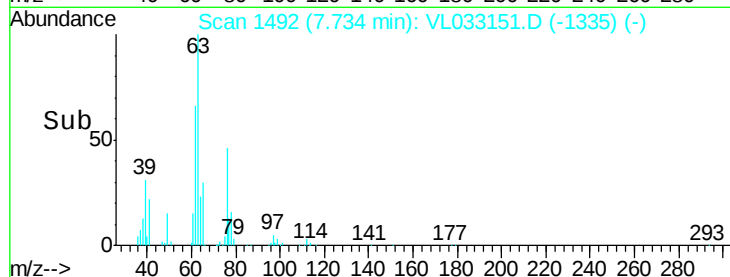
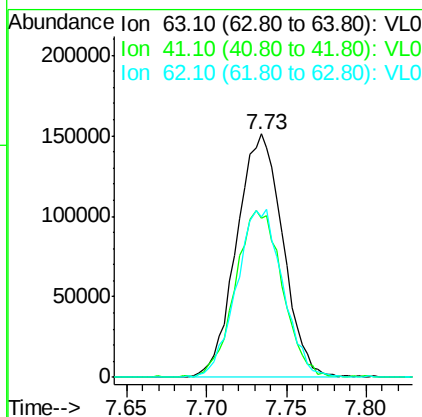
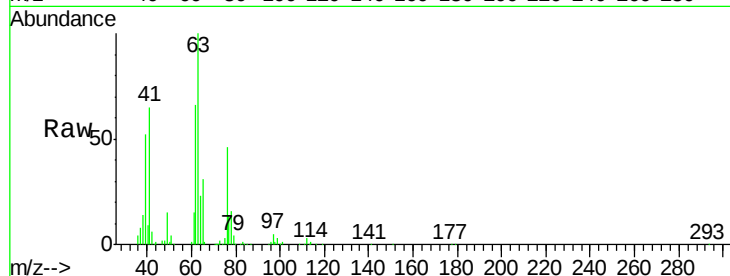
ClientSampleId :

VSTDIC002

Tot Ion:	63	Resp:	297914
Ion Ratio	Lower	Upper	
63	100		
41	64.7	53.2	79.8
62	65.0	54.4	81.6

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#40

1,4-Dioxane

Concen: 2.254 ppbv

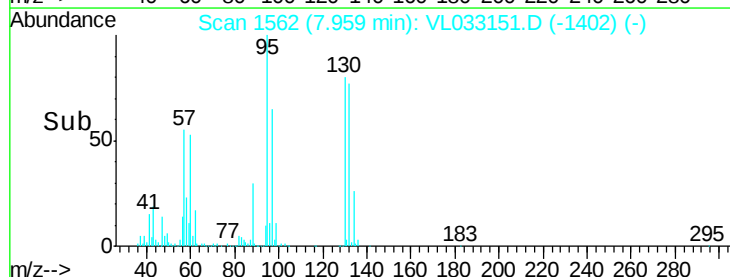
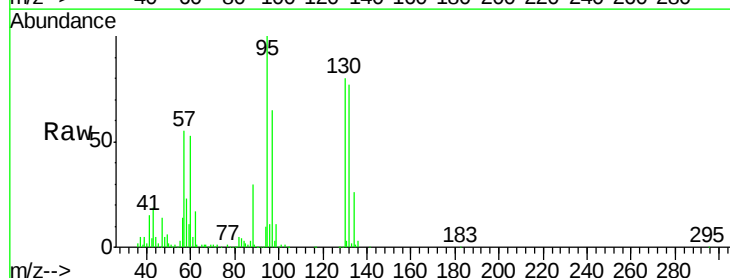
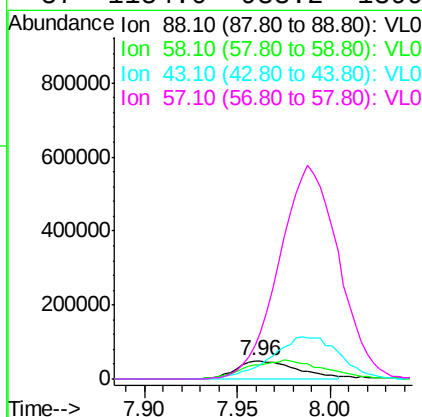
RT: 7.96 min Scan# 1562

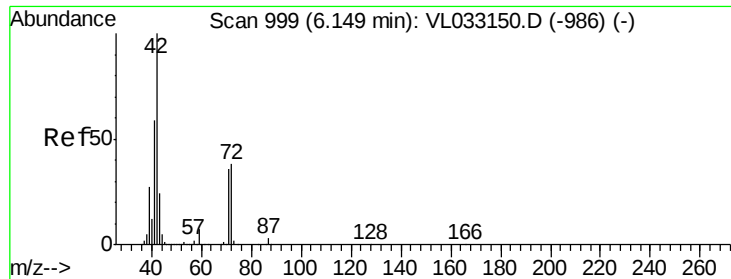
Delta R.T. 0.01 min

Lab File: VL033151.D

Acq: 4 Feb 2019 10:42

Tgt Ion:	88	Resp:	112883
Ion Ratio	Lower	Upper	
88	100		
58	132.2	103.4	155.2
43	262.6	210.8	316.2
57	1154.0	933.2	1399.8





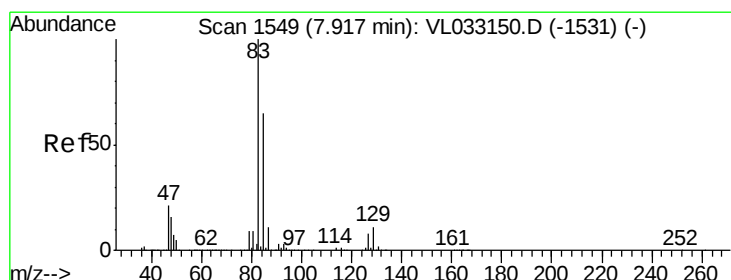
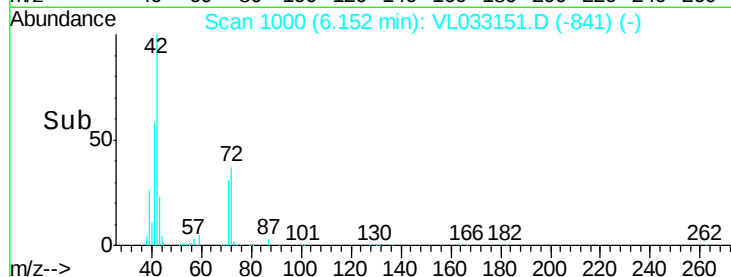
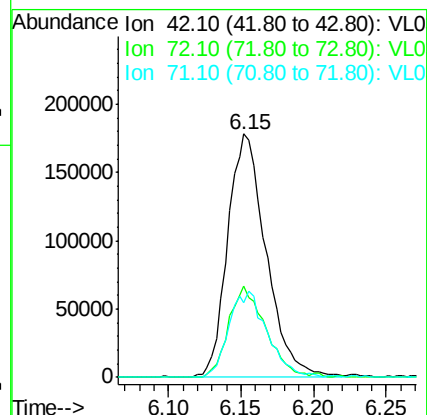
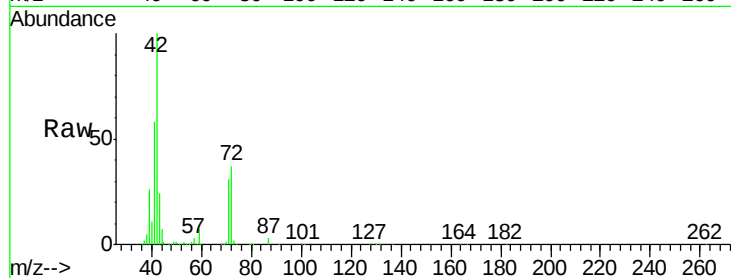
#41
Tetrahydrofuran
Concen: 2.056 ppbv
RT: 6.15 min Scan# 1000
Delta R.T. 0.01 min
Lab File: VL033151.D
Acq: 4 Feb 2019 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
42	100		
72	36.9	30.2	45.4
71	36.1	28.8	43.2

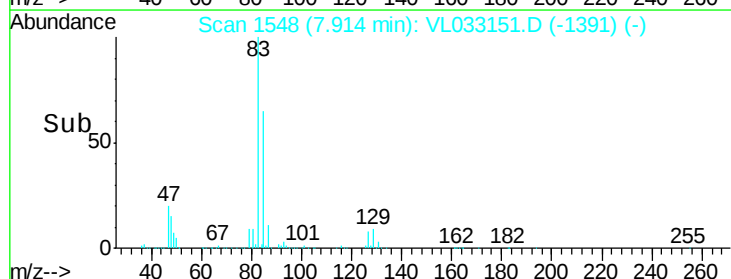
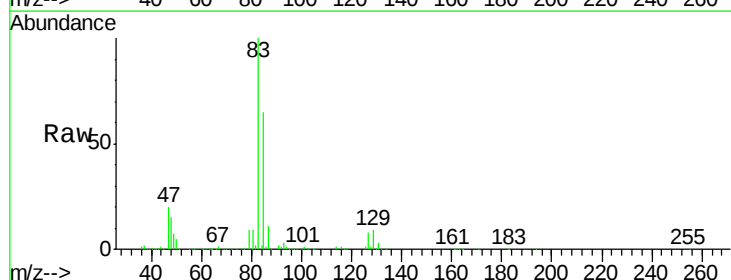
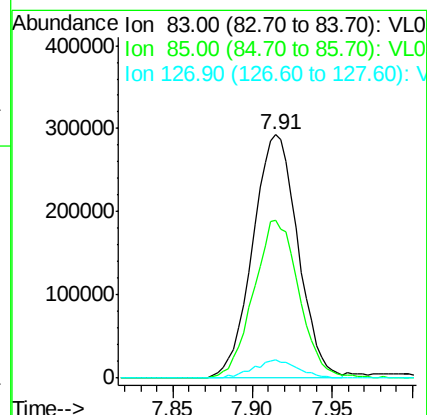
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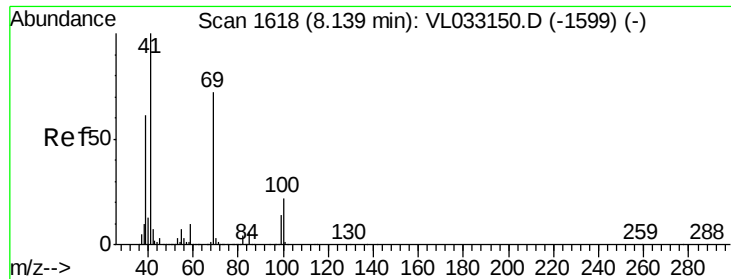
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#42
Bromodichloromethane
Concen: 2.018 ppbv
RT: 7.91 min Scan# 1548
Delta R.T. 0.00 min
Lab File: VL033151.D
Acq: 4 Feb 2019 10:42

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.0	51.3	76.9
127	7.7	6.1	9.1





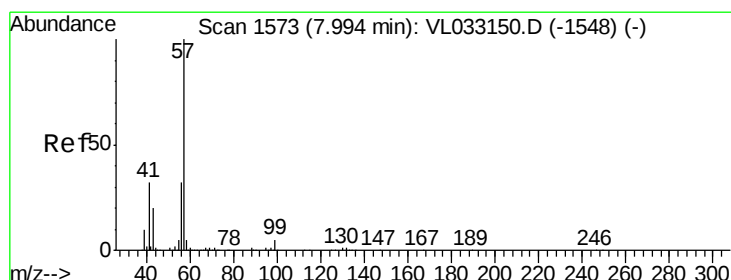
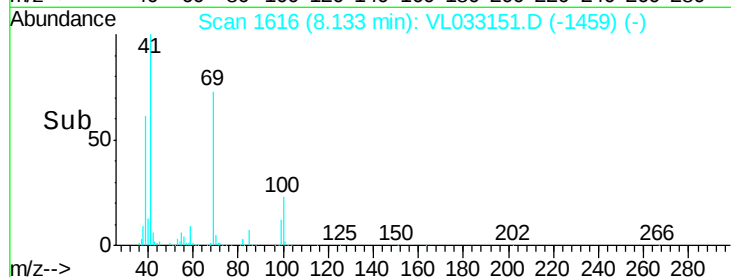
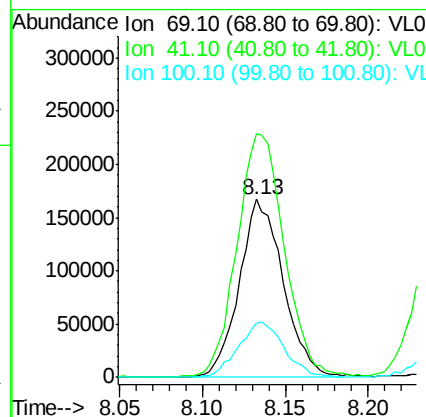
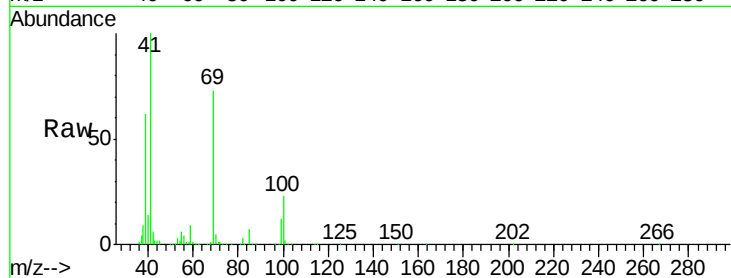
#43
Methvl Methacrilate
Concen: 2.266 ppbv
RT: 8.13 min Scan# 1616
Delta R.T. 0.00 min
Lab File: VL033151.D
Acq: 4 Feb 2019 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ion	Ratio	Resp	Lower	Upper
69	100		308088		
41	147.5	118.4	177.6		
100	32.4	26.5	39.7		

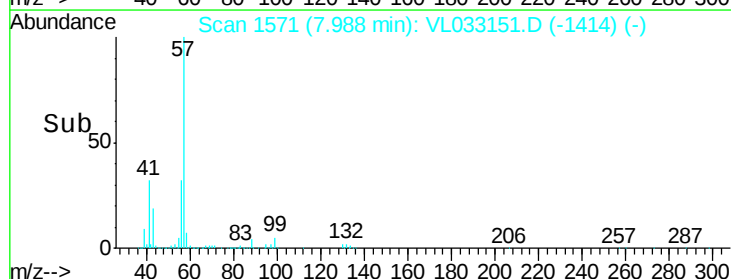
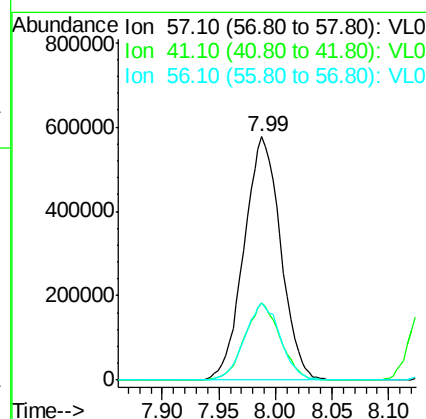
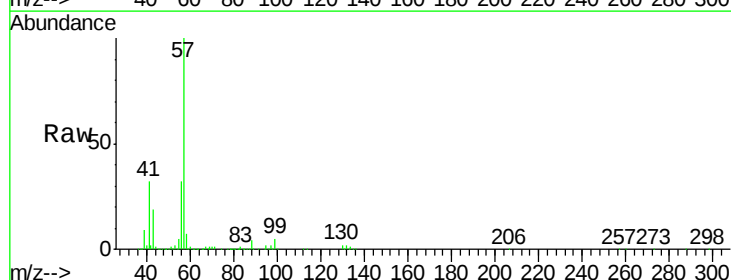
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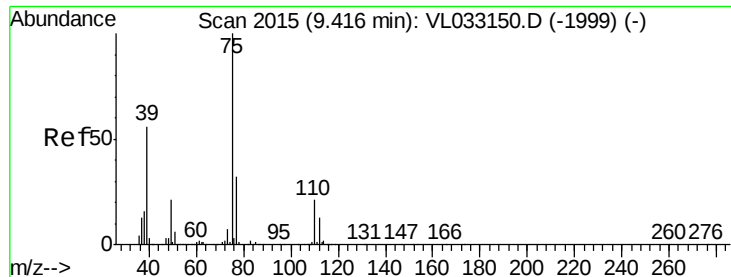
MMDadoda
2/5/2019 10:27:04 AM



#44
2,2,4-Trimethylpentane
Concen: 2.075 ppbv
RT: 7.99 min Scan# 1571
Delta R.T. 0.00 min
Lab File: VL033151.D
Acq: 4 Feb 2019 10:42

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100		1299596		
41	30.9	24.6	36.8		
56	31.0	24.9	37.3		





#45

t-1,3-Dichloropropene

Concen: 2.193 ppbv

RT: 9.41 min Scan# 2014

Delta R.T. 0.00 min

Lab File: VL033151.D

Acq: 4 Feb 2019 10:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 75 Resp: 360310

Ion Ratio Lower Upper

75 100

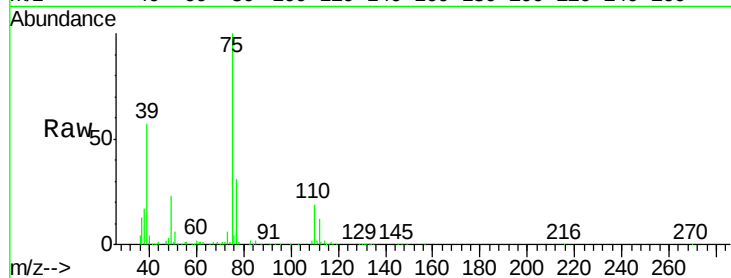
77 31.4 24.4 36.6

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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

9.41

200000

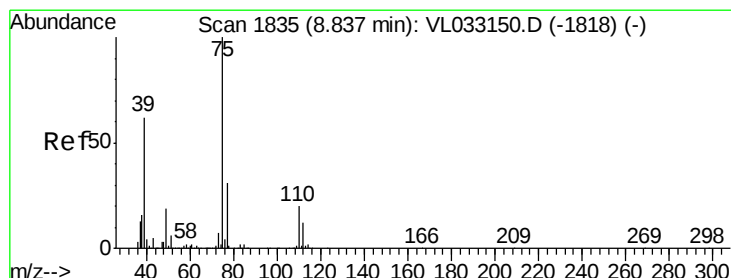
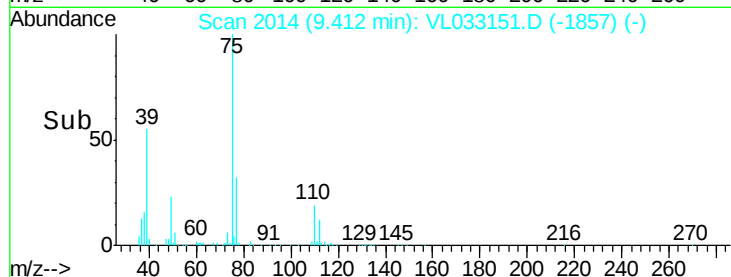
150000

100000

50000

0

Time-->



#46

cis-1,3-Dichloropropene

Concen: 2.235 ppbv

RT: 8.83 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VL033151.D

Acq: 4 Feb 2019 10:42

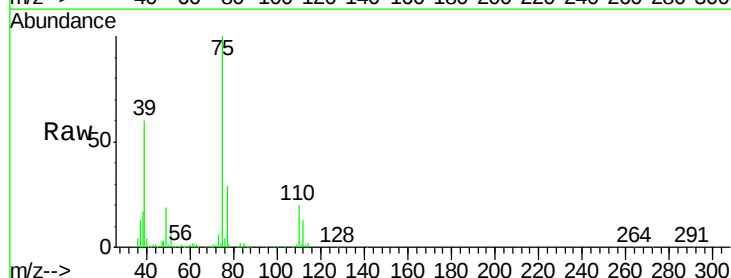
Tgt Ion: 75 Resp: 440191

Ion Ratio Lower Upper

75 100

39 60.2 51.4 77.2

77 29.4 25.4 38.0



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

300000

250000

200000

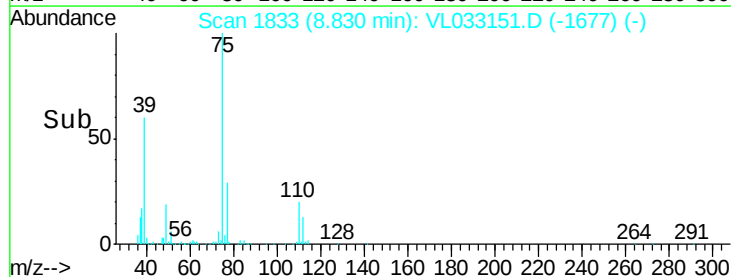
150000

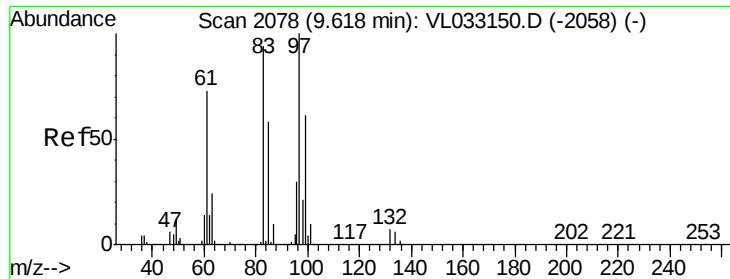
100000

50000

0

Time-->





#47

1,1,2-Trichloroethane

Concen: 2.355 ppbv

RT: 9.61 min Scan# 2075

Delta R.T. -0.00 min

Lab File: VL033151.D

Acq: 4 Feb 2019 10:42

Instrument :

MSVOA_L

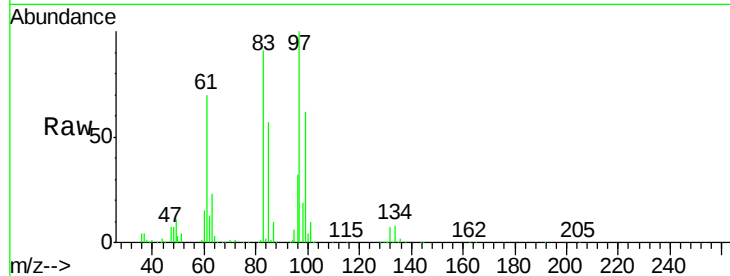
ClientSampleId :

VSTDIC002

Tot Ion:	97	Resp:	305588
Ion Ratio	Lower	Upper	
97	100		
83	90.9	65.8	98.8
85	57.3	44.7	67.1
99	62.1	48.6	73.0

Manual Integrations
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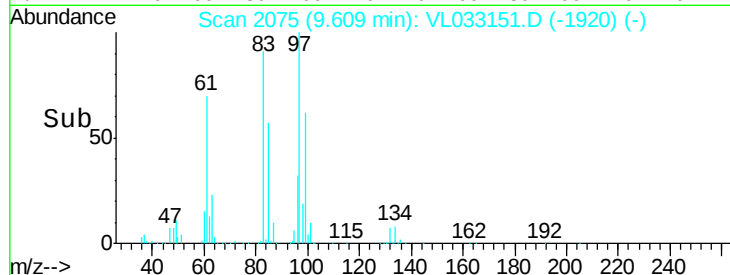
Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

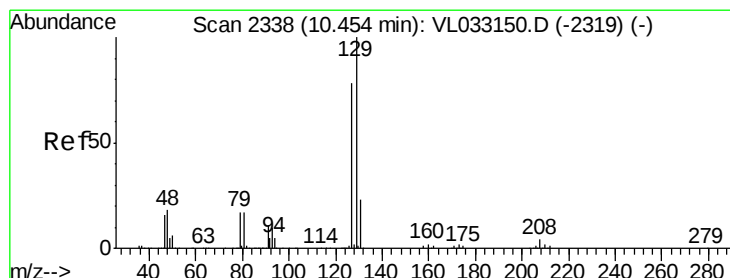
Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Time-->



Time-->



#48

Dibromochloromethane

Concen: 2.115 ppbv

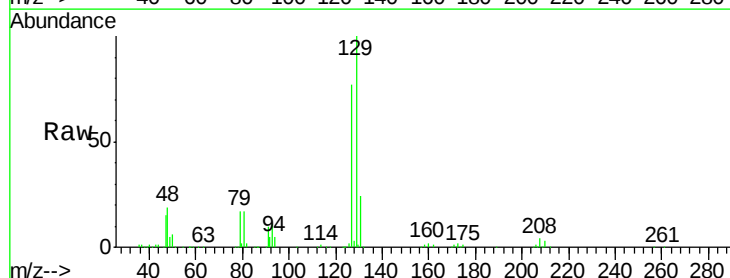
RT: 10.45 min Scan# 2336

Delta R.T. 0.00 min

Lab File: VL033151.D

Acq: 4 Feb 2019 10:42

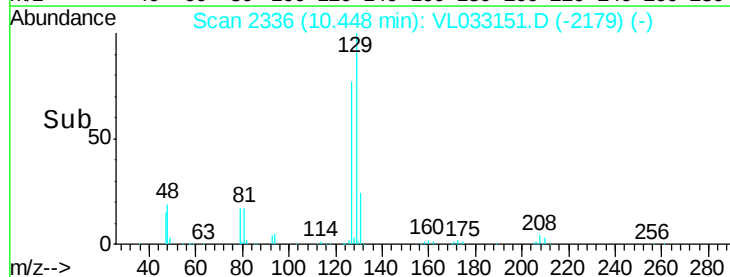
Tgt Ion:	129	Resp:	457480
Ion Ratio	Lower	Upper	
129	100		
127	79.2	39.3	117.9



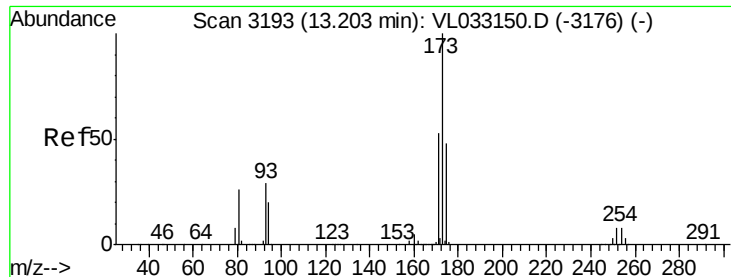
Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

Time-->



Time-->



#49

Bromoform

Concen: 2.164 ppbv

RT: 13.20 min Scan# 3193

Delta R.T. 0.01 min

Lab File: VL033151.D

Acq: 4 Feb 2019 10:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion:173 Resp: 388233

Ion Ratio Lower Upper

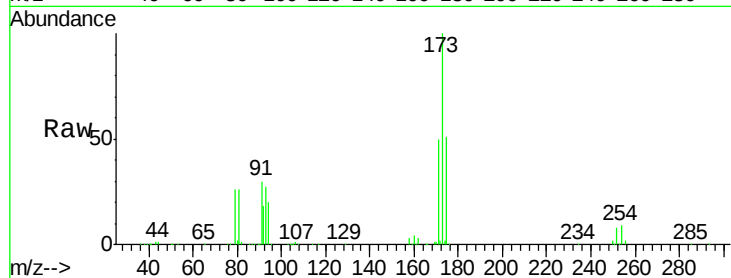
173 100

175 48.0 39.3 58.9

171 51.0 41.8 62.6

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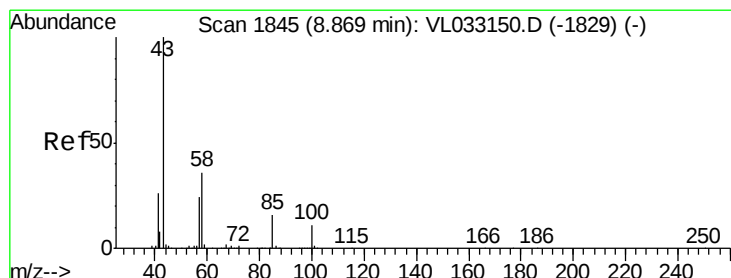
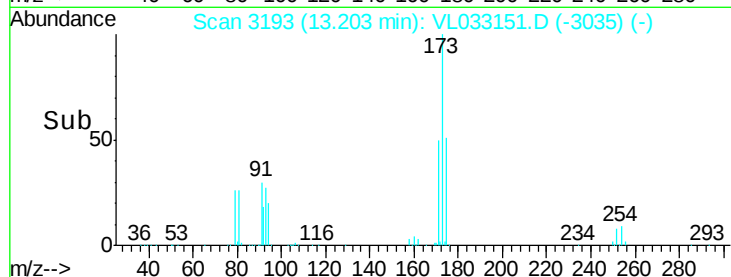
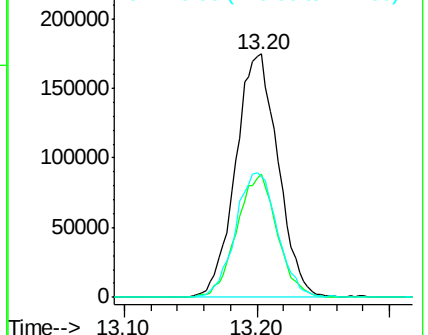
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2/5/2019 10:27:04 AM



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: 2.471 ppbv

RT: 8.87 min Scan# 1846

Delta R.T. 0.01 min

Lab File: VL033151.D

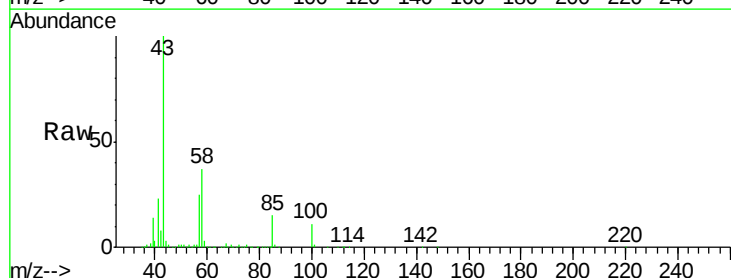
Acq: 4 Feb 2019 10:42

Tgt Ion: 43 Resp: 849082

Ion Ratio Lower Upper

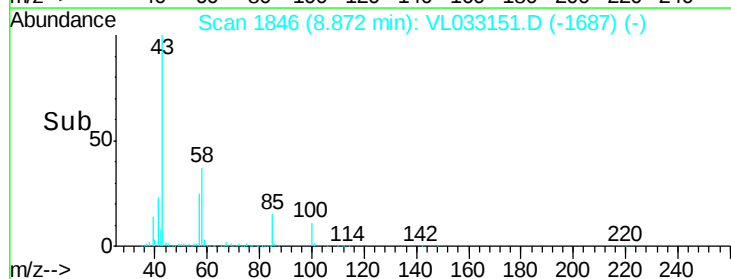
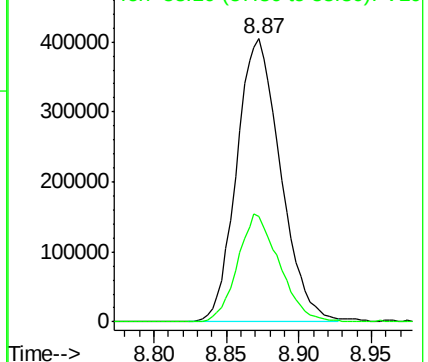
43 100

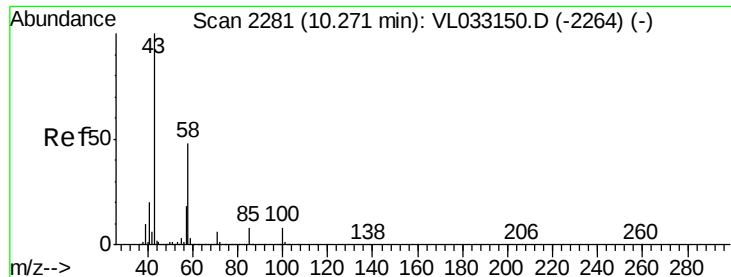
58 36.9 28.7 43.1



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





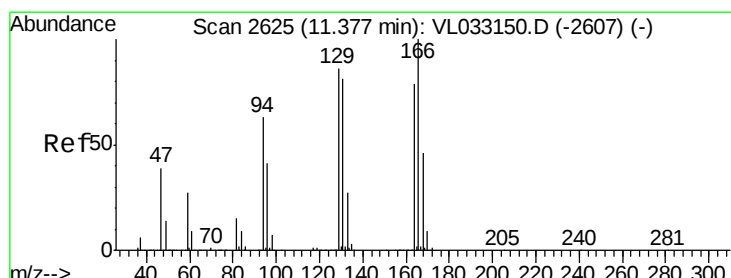
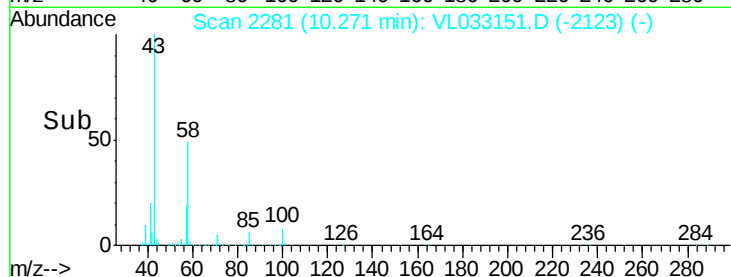
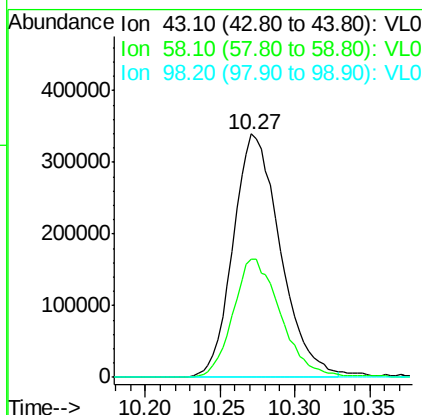
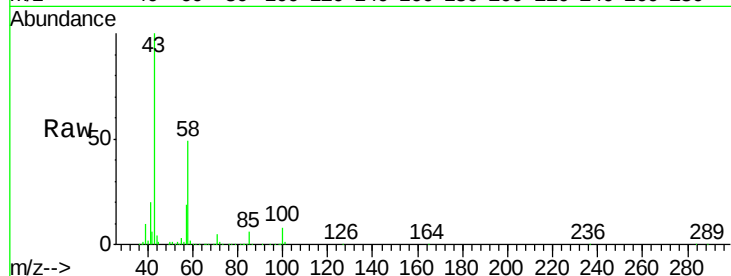
#51
2-Hexanone
Concen: 2.420 ppbv
RT: 10.27 min Scan# 2281
Delta R.T. 0.01 min
Lab File: VL033151.D
Acq: 4 Feb 2019 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
43	100		
58	49.9	39.4	59.2
98	0.2	0.1	0.1#

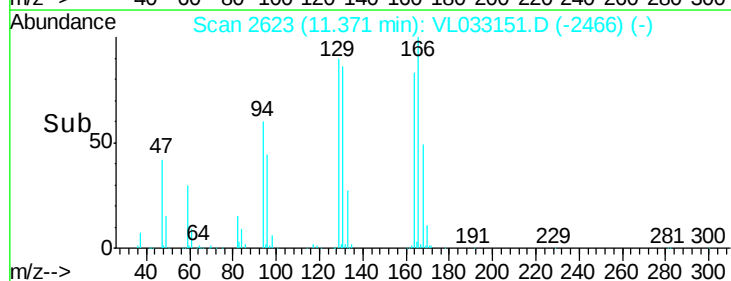
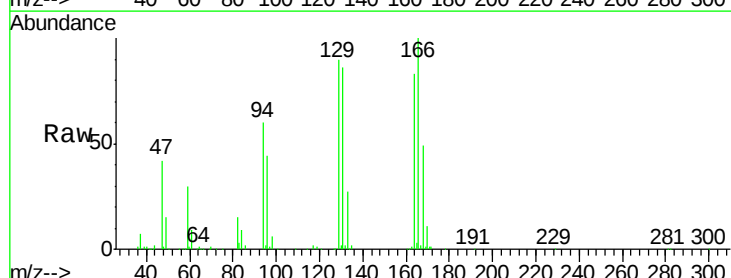
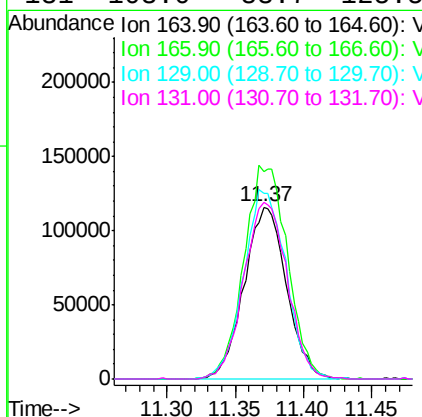
Manual Integrations
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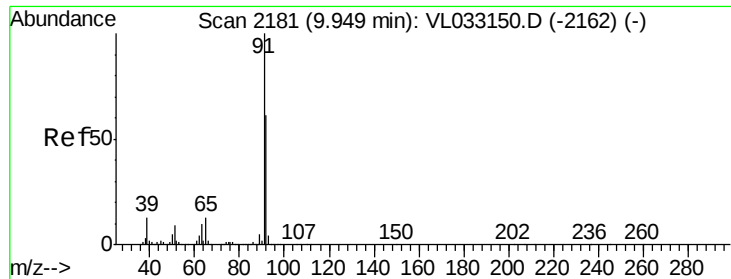
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#52
Tetrachloroethene
Concen: 1.694 ppbv
RT: 11.37 min Scan# 2623
Delta R.T. 0.00 min
Lab File: VL033151.D
Acq: 4 Feb 2019 10:42

Tgt Ion	Ratio	Lower	Upper
164	100		
166	120.5	98.6	148.0
129	108.4	86.3	129.5
131	103.0	83.7	125.5





#53

Toluene

Concen: 1.976 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. 0.01 min

Lab File: VL033151.D

Acq: 4 Feb 2019 10:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 91 Resp: 878304

Ion Ratio Lower Upper

91 100

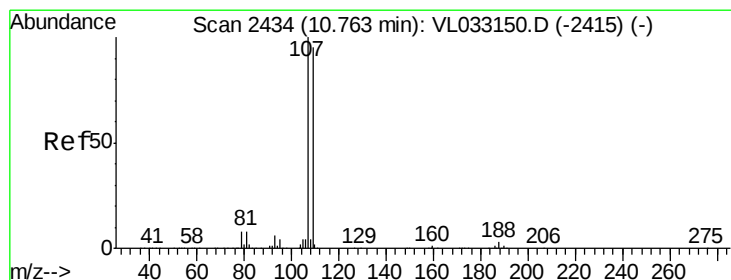
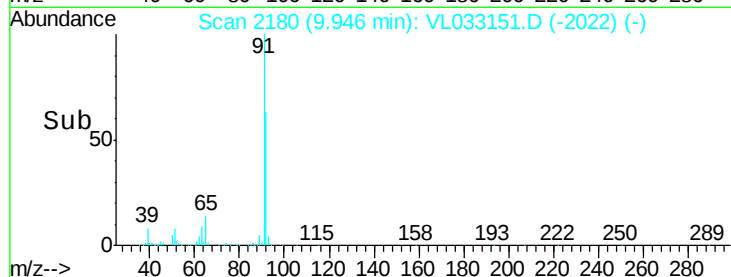
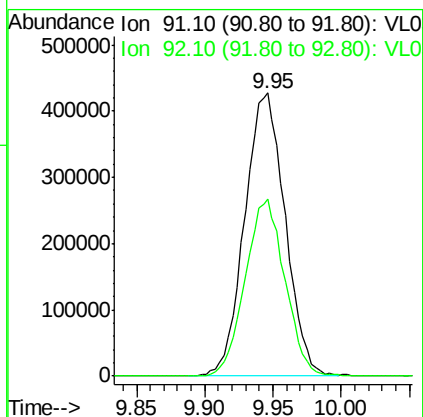
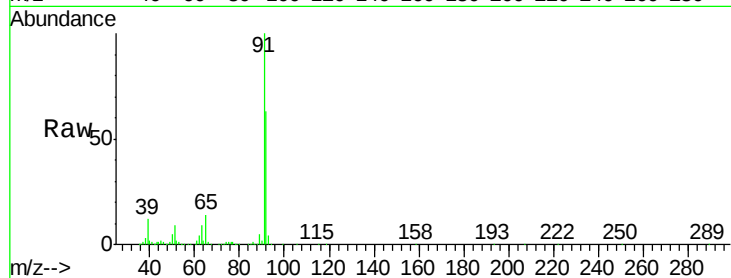
92 61.5 48.9 73.3

Manual Integrations

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#54

1,2-Dibromoethane

Concen: 1.867 ppbv

RT: 10.76 min Scan# 2432

Delta R.T. 0.00 min

Lab File: VL033151.D

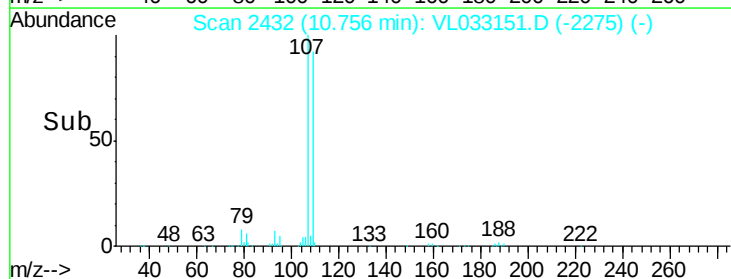
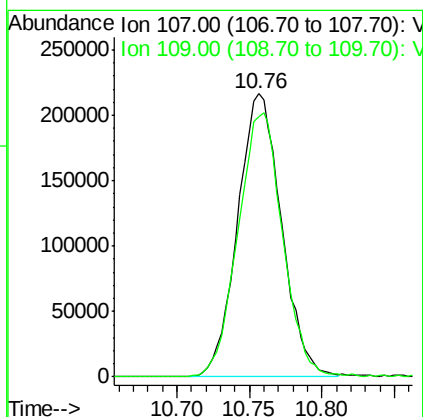
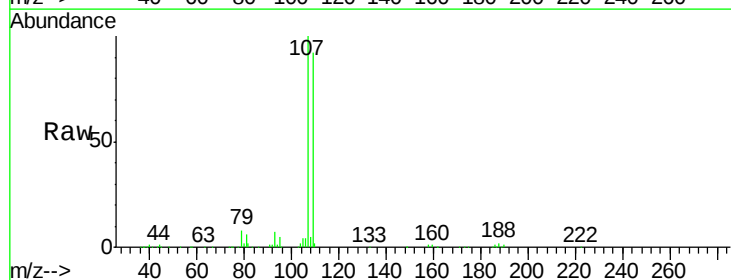
Acq: 4 Feb 2019 10:42

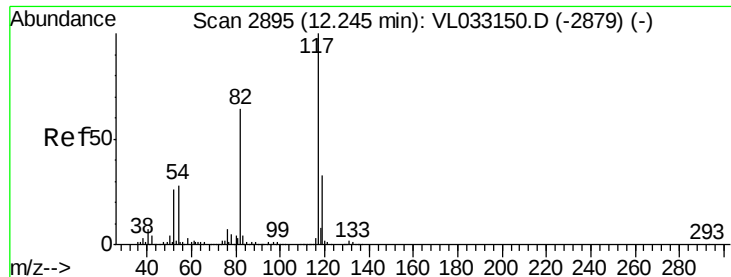
Tgt Ion: 107 Resp: 455717

Ion Ratio Lower Upper

107 100

109 91.5 74.7 112.1





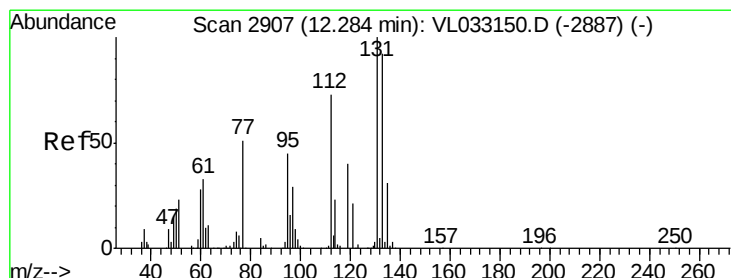
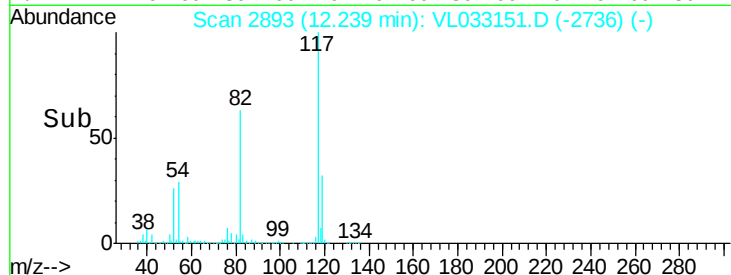
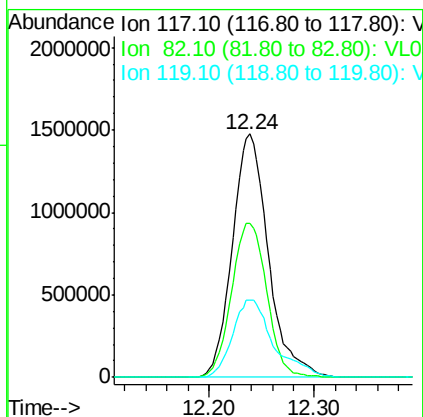
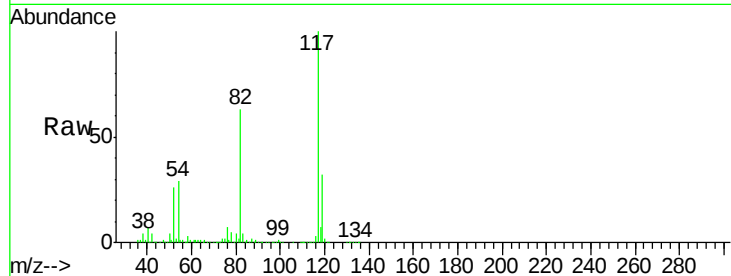
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2893
Delta R.T. 0.00 min
Lab File: VL033151.D
Acq: 4 Feb 2019 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
117	100		
82	62.2	49.3	73.9
119	36.5	27.1	40.7

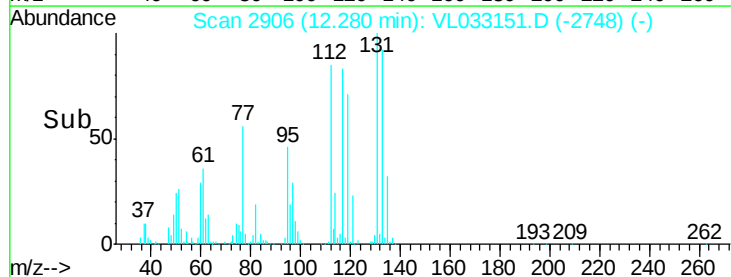
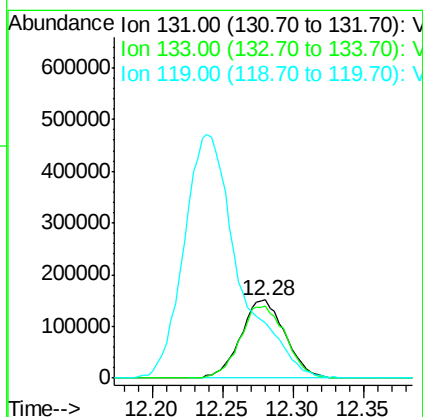
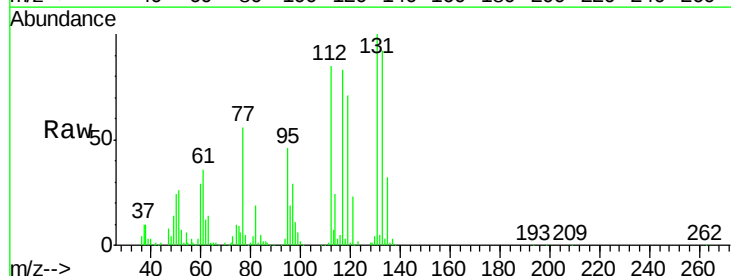
Manual Integrations
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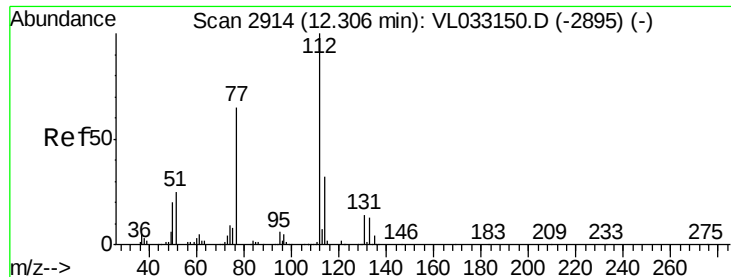
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#56
1,1,1,2-Tetrachloroethane
Concen: 2.134 ppbv
RT: 12.28 min Scan# 2906
Delta R.T. 0.01 min
Lab File: VL033151.D
Acq: 4 Feb 2019 10:42

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.2	76.2	114.4
119	384.5	46.9	70.3#





#57

Chlorobenzene

Concen: 2.087 ppbv

RT: 12.30 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VL033151.D

Acq: 4 Feb 2019 10:42

Instrument :

MSVOA_L

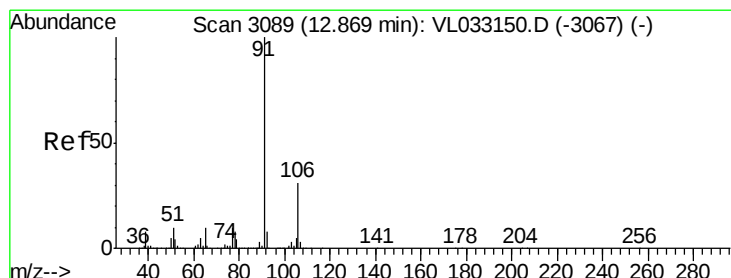
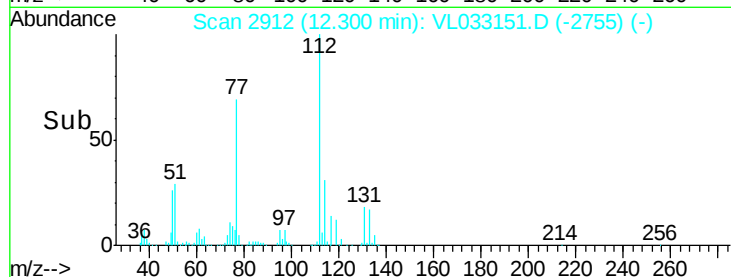
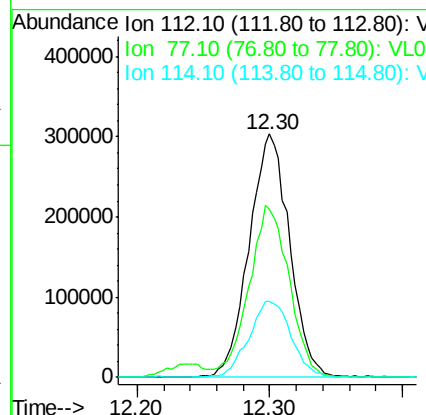
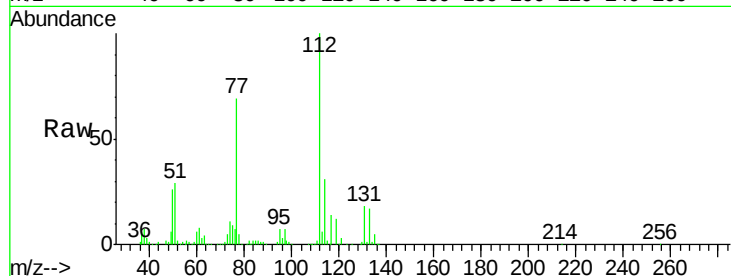
ClientSampleId :

VSTDIC002

Tot Ion:	112	Resp:	642305
Ion Ratio	Lower	Upper	
112	100		
77	68.6	52.8	79.2
114	31.0	29.7	36.3

Manual Integrations
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#58

Ethyl Benzene

Concen: 2.226 ppbv

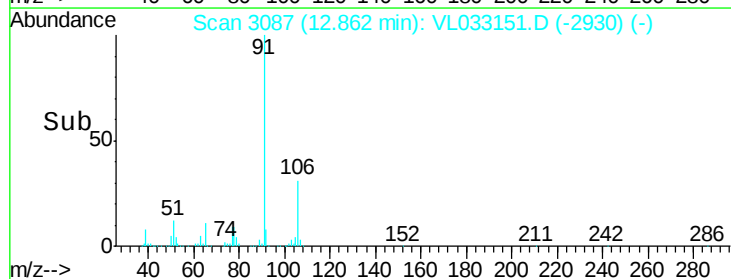
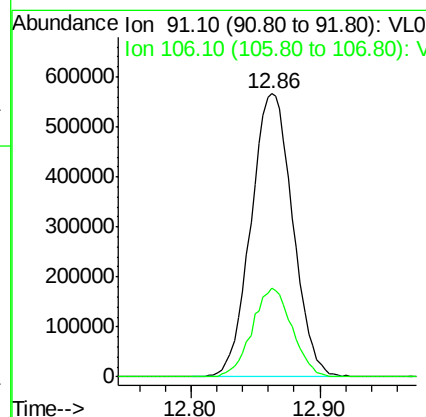
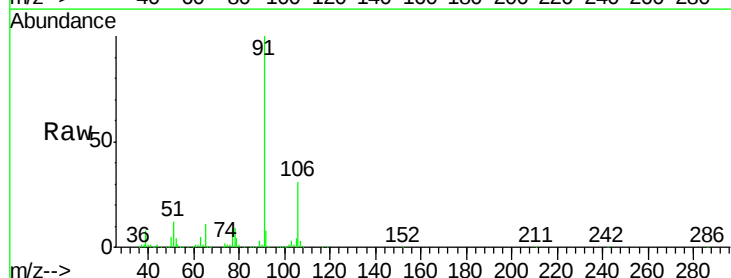
RT: 12.86 min Scan# 3087

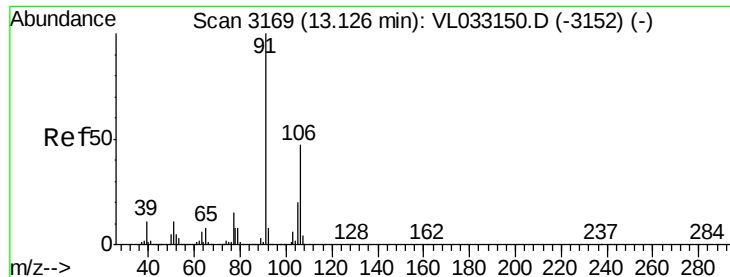
Delta R.T. 0.00 min

Lab File: VL033151.D

Acq: 4 Feb 2019 10:42

Tgt Ion:	91	Resp:	1276987
Ion Ratio	Lower	Upper	
91	100		
106	31.4	24.7	37.1





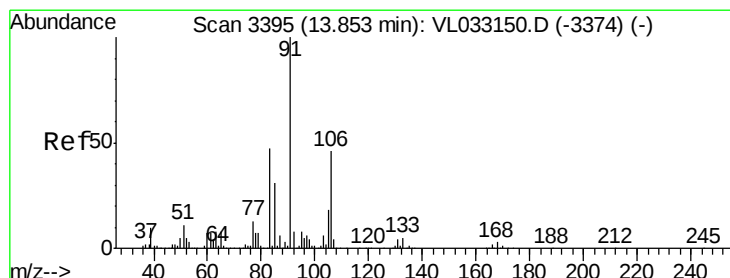
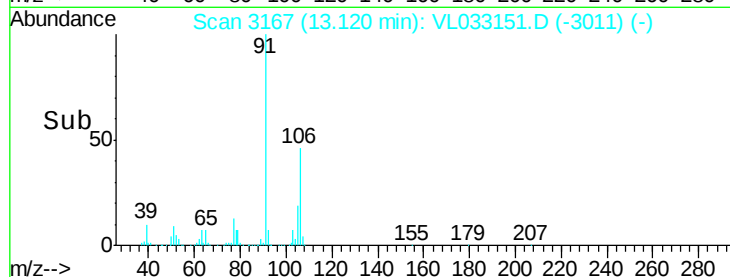
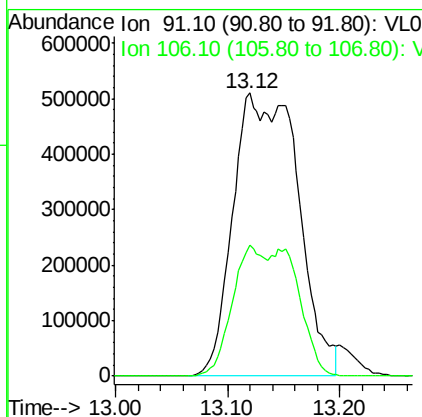
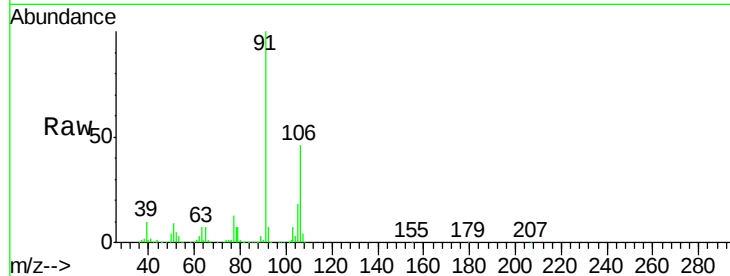
#59
m/p-Xylene
Concen: 4.372 ppbv m
RT: 13.12 min Scan# 3167
Delta R.T. 0.00 min
Lab File: VL033151.D
Acq: 4 Feb 2019 10:42

Instrument :
MSVOA_L
ClientSampled :
VSTDIC002

Tot Ion: 91 Resp: 2045588
Ion Ratio Lower Upper
91 100
106 45.1 37.6 56.4

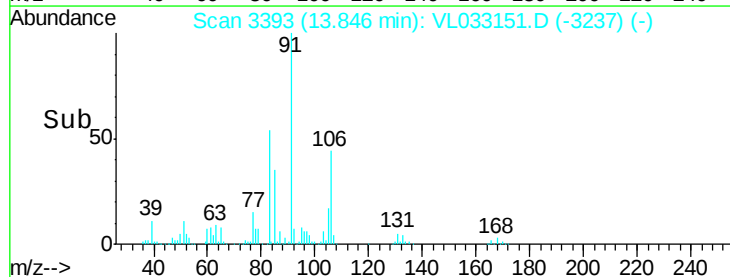
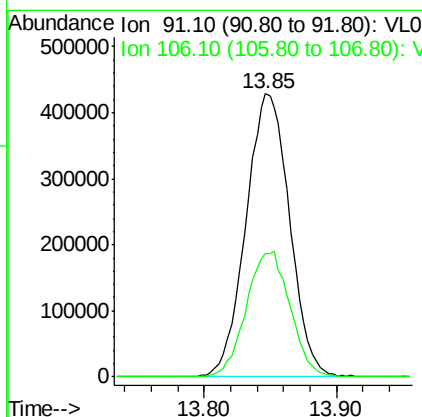
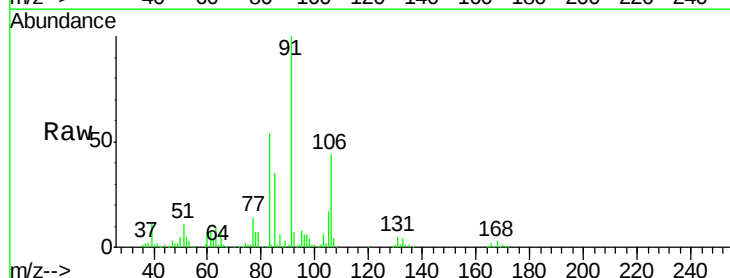
Manual Integrations
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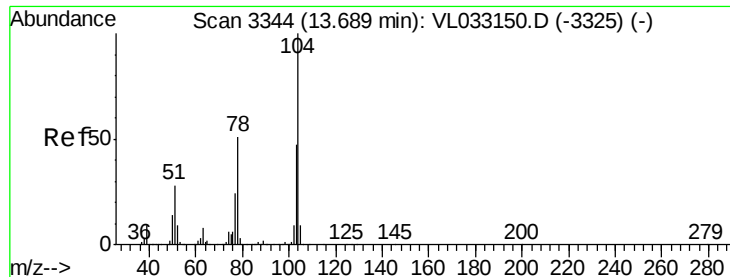
MMDadoda
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#60
o-Xylene
Concen: 2.157 ppbv
RT: 13.85 min Scan# 3393
Delta R.T. 0.00 min
Lab File: VL033151.D
Acq: 4 Feb 2019 10:42

Tgt Ion: 91 Resp: 976159
Ion Ratio Lower Upper
91 100
106 44.8 23.2 69.5





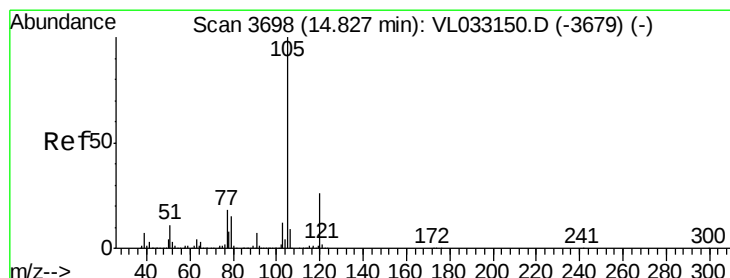
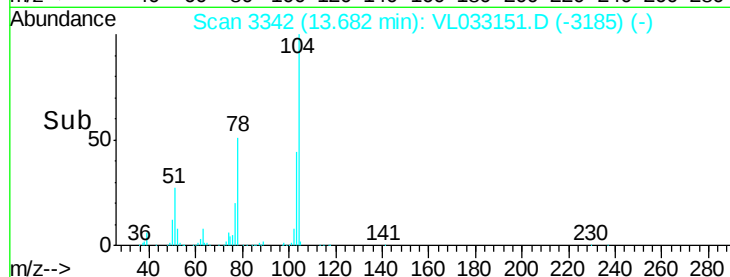
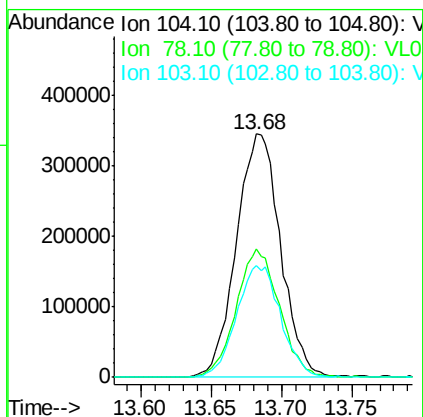
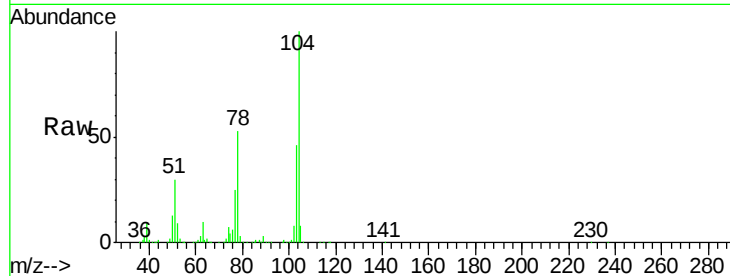
#61
Stvrene
Concen: 2.177 ppbv
RT: 13.68 min Scan# 3342
Delta R.T. 0.00 min
Lab File: VL033151.D
Acq: 4 Feb 2019 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
104	100		
78	51.8	39.7	59.5
103	46.1	37.7	56.5

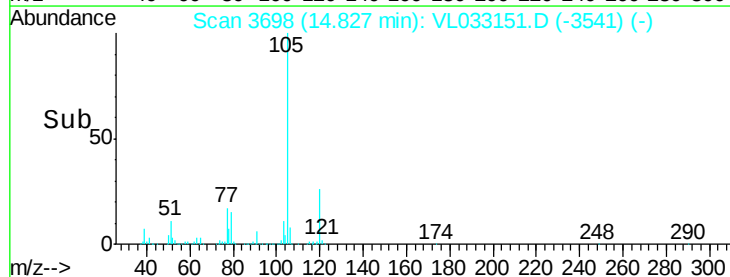
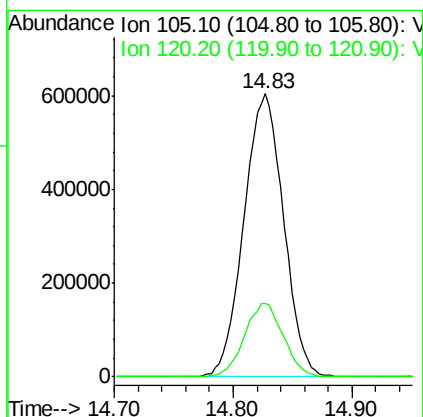
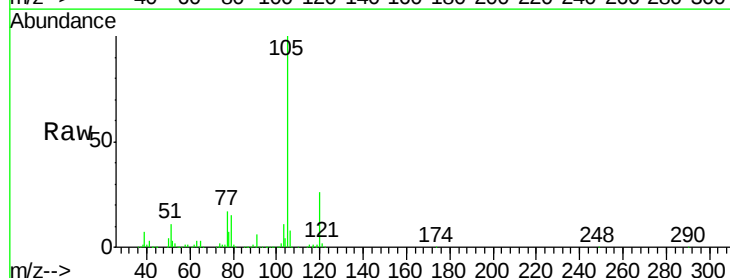
Manual Integrations
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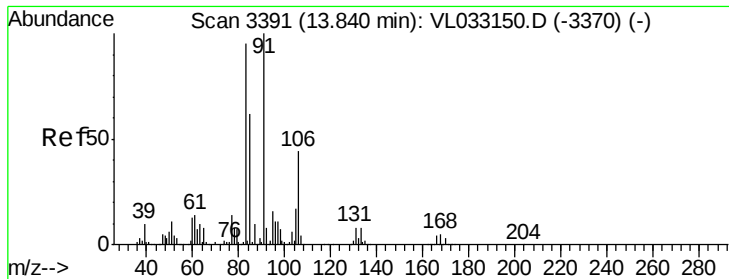
MMDadoda
2/5/2019 10:27:04 AM



#62
Isopropylbenzene
Concen: 2.164 ppbv
RT: 14.83 min Scan# 3698
Delta R.T. 0.00 min
Lab File: VL033151.D
Acq: 4 Feb 2019 10:42

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.4	20.8	31.2





#63

1,1,2,2-Tetrachloroethane

Concen: 2.066 ppbv

RT: 13.83 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VL033151.D

Acq: 4 Feb 2019 10:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 83 Resp: 705502
Ion Ratio Lower Upper

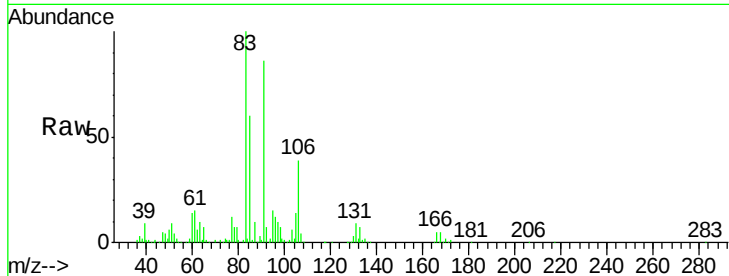
83 100

131 8.8 4.5 13.7

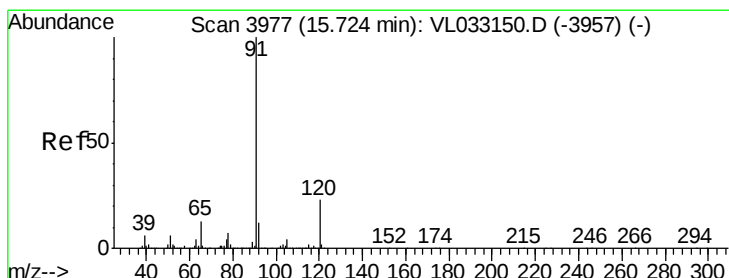
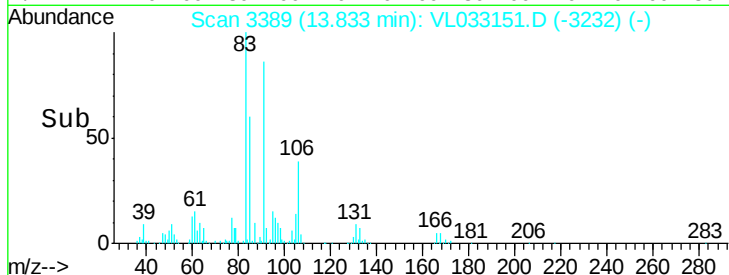
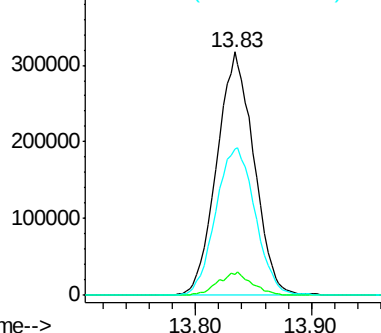
85 64.7 32.5 97.4

Manual Integrations
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Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 131.00 (130.70 to 131.70): V
Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 2.200 ppbv

RT: 15.72 min Scan# 3977

Delta R.T. 0.00 min

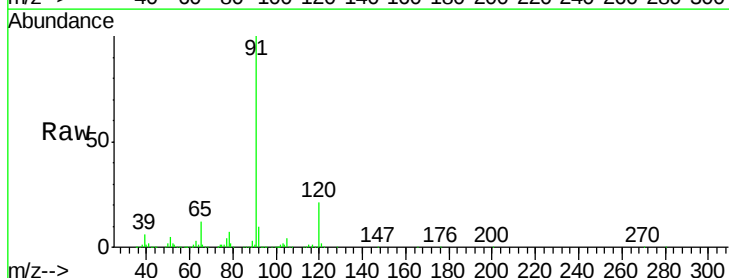
Lab File: VL033151.D

Acq: 4 Feb 2019 10:42

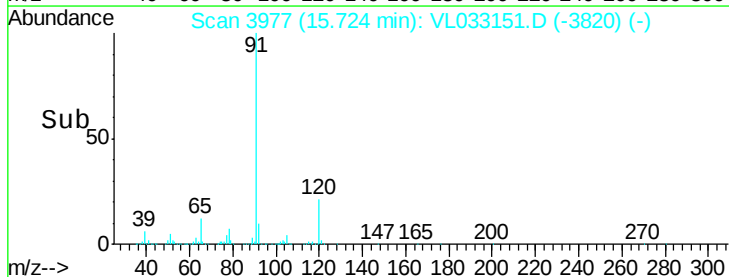
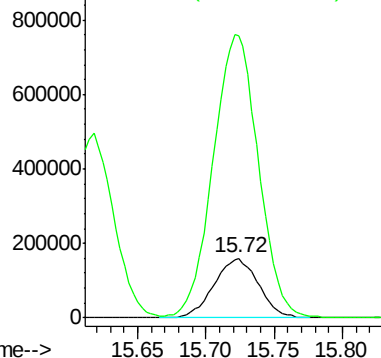
Tgt Ion:120 Resp: 362752
Ion Ratio Lower Upper

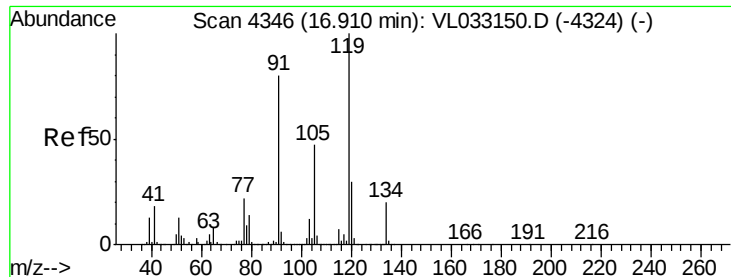
120 100

91 482.8 370.2 555.2



Abundance Ion 120.20 (119.90 to 120.90): V
Ion 91.10 (90.80 to 91.80): VL0





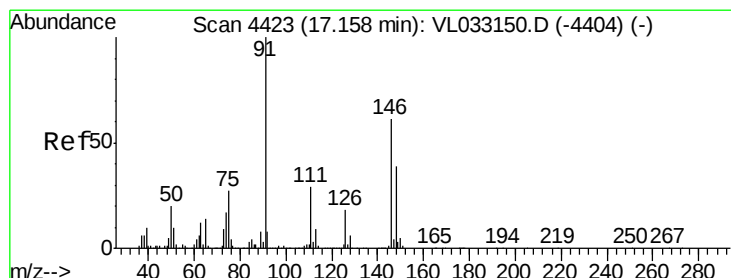
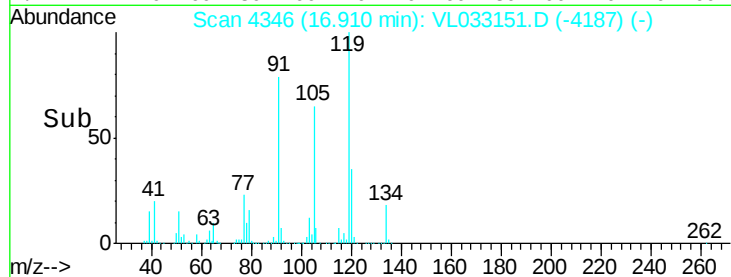
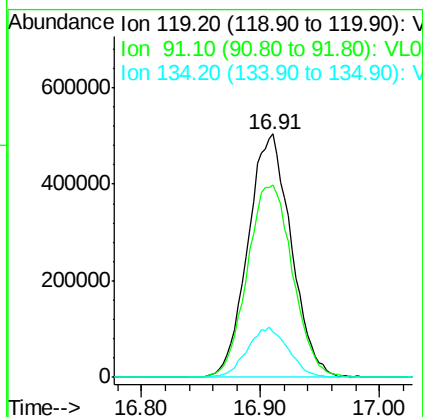
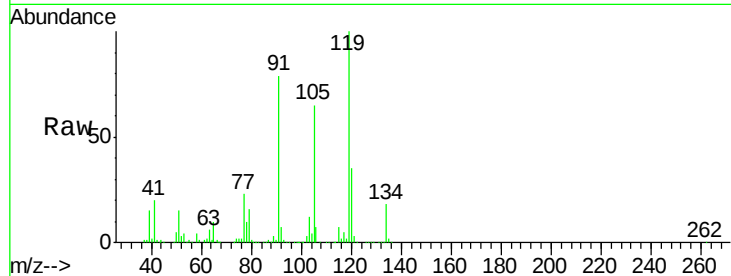
#65
tert-Butylbenzene
Concen: 2.335 ppbv
RT: 16.91 min Scan# 4346
Delta R.T. 0.01 min
Lab File: VL033151.D
Acq: 4 Feb 2019 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
119	100		
91	83.3	63.0	94.6
134	19.5	15.5	23.3

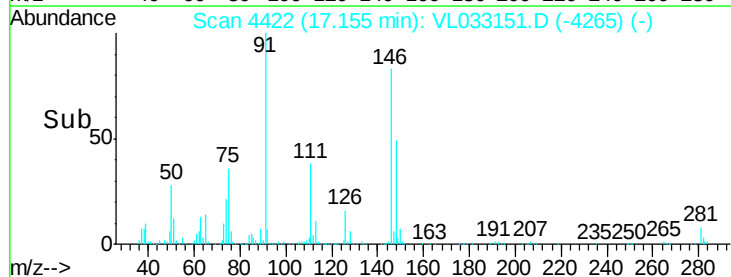
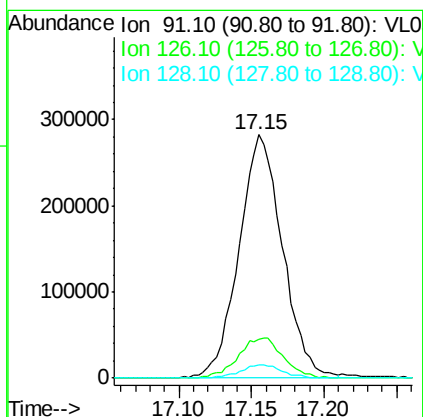
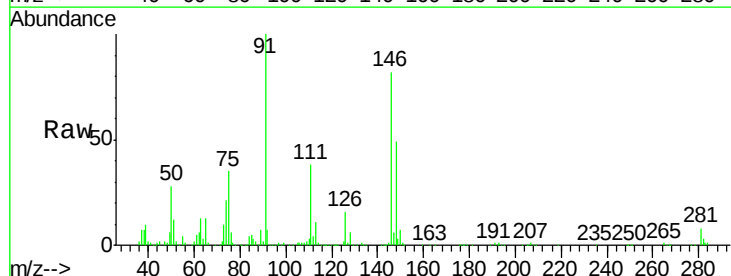
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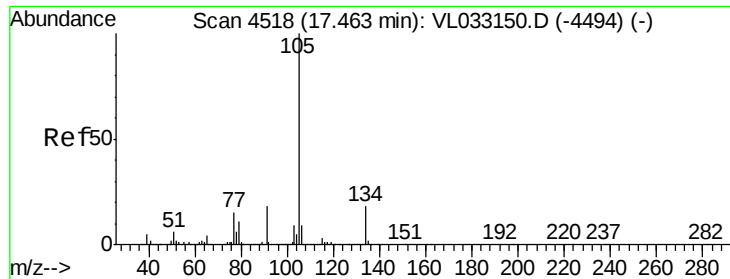
MMDadoda
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#66
Benzyl Chloride
Concen: 2.399 ppbv
RT: 17.15 min Scan# 4422
Delta R.T. 0.00 min
Lab File: VL033151.D
Acq: 4 Feb 2019 10:42

Tgt Ion	Ratio	Lower	Upper
91	100		
126	17.6	14.9	22.3
128	5.6	4.7	7.1





#67

sec-Butylbenzene

Concen: 2.353 ppbv

RT: 17.46 min Scan# 4518

Delta R.T. 0.00 min

Lab File: VL033151.D

Acq: 4 Feb 2019 10:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 105 Resp: 1809528

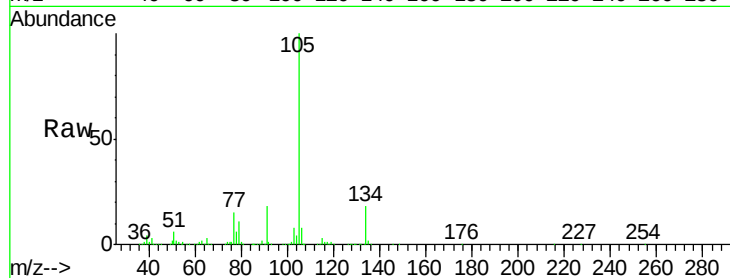
Ion Ratio Lower Upper

105 100

134 17.8 14.4 21.6

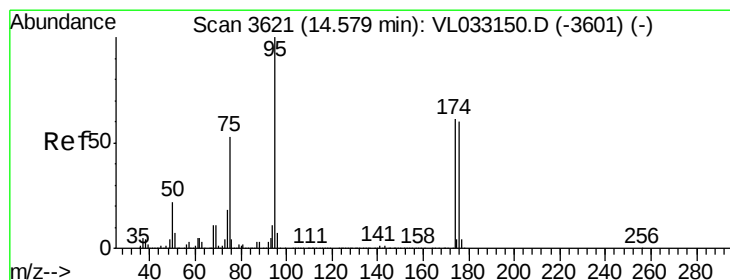
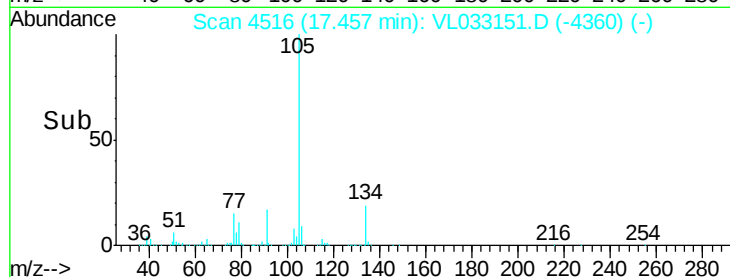
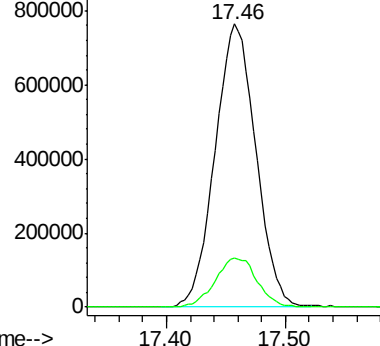
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.046 ppbv

RT: 14.58 min Scan# 3620

Delta R.T. 0.00 min

Lab File: VL033151.D

Acq: 4 Feb 2019 10:42

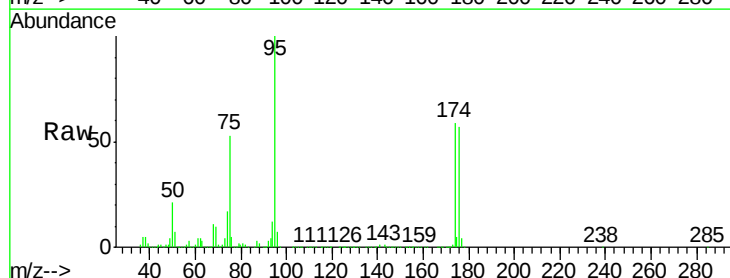
Tgt Ion: 95 Resp: 2652800

Ion Ratio Lower Upper

95 100

174 60.5 49.2 73.8

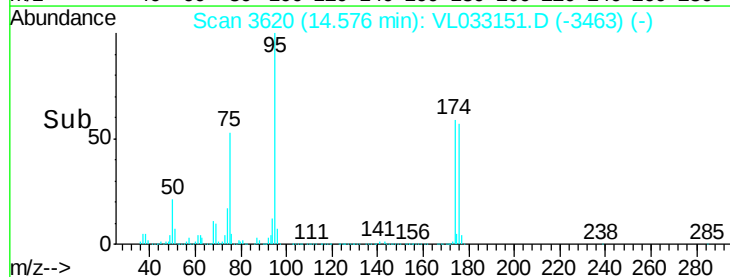
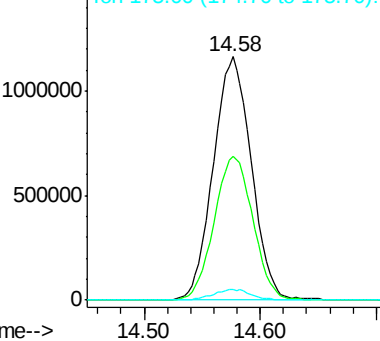
175 4.4 3.7 5.5

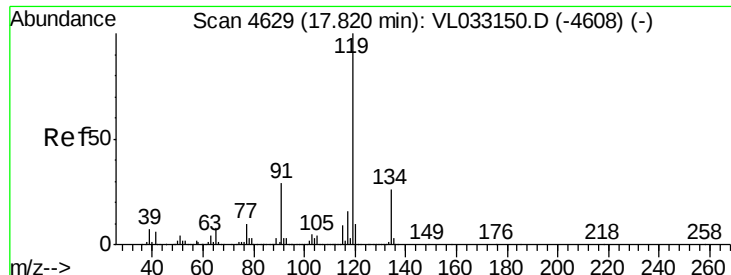


Abundance Ion 95.10 (94.80 to 95.80): VLO

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





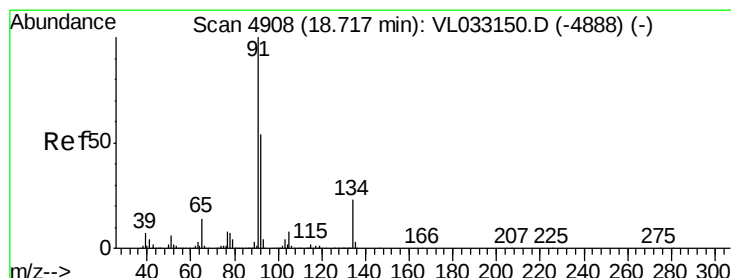
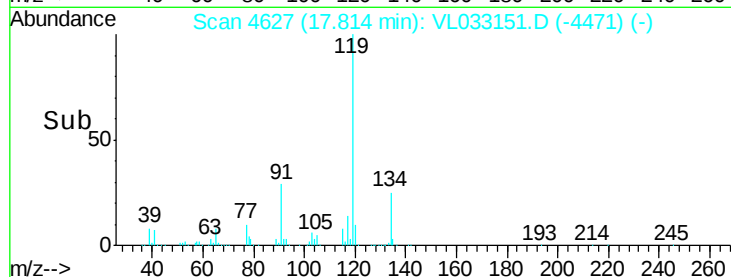
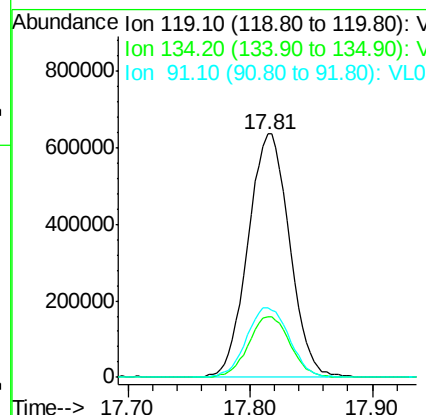
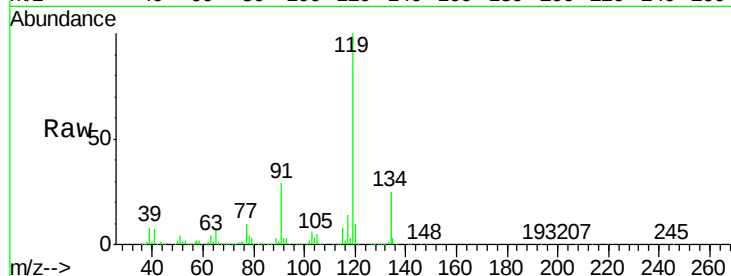
#69
p-Isopropyltoluene
Concen: 2.474 ppbv
RT: 17.81 min Scan# 4627
Delta R.T. 0.00 min
Lab File: VL033151.D
Acq: 4 Feb 2019 10:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.0	20.3	30.5
91	29.5	22.6	33.8

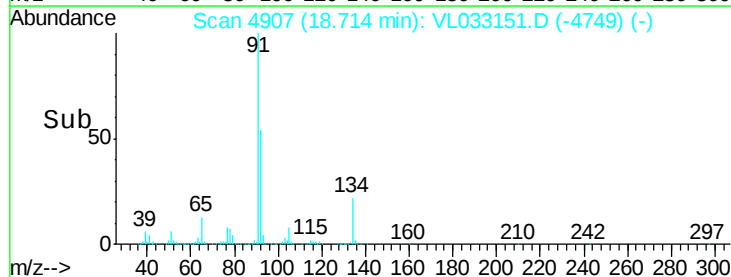
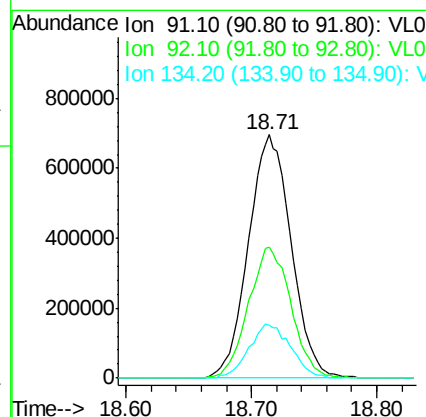
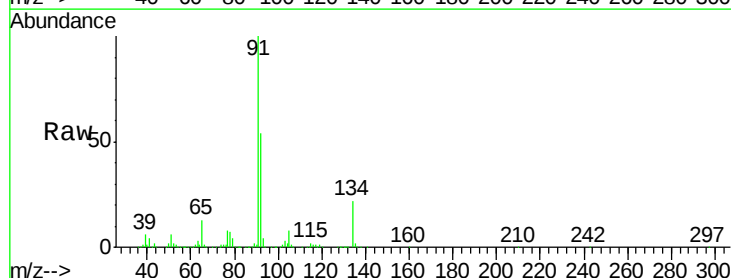
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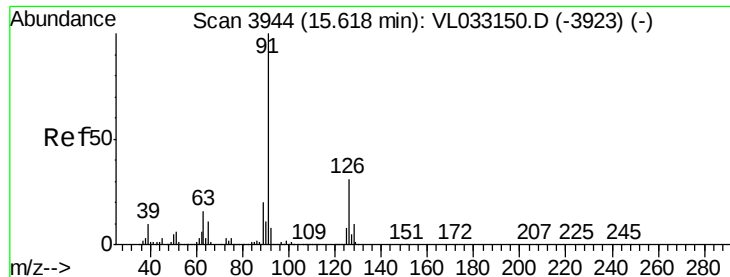
MMDadoda
2/5/2019 10:27:04 AM



#70
n-Butylbenzene
Concen: 2.657 ppbv
RT: 18.71 min Scan# 4907
Delta R.T. 0.01 min
Lab File: VL033151.D
Acq: 4 Feb 2019 10:42

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.0	43.7	65.5
134	21.9	18.4	27.6





#71

2-Chlorotoluene

Concen: 2.239 ppbv

RT: 15.62 min Scan# 3944

Delta R.T. 0.01 min

Lab File: VL033151.D

Acq: 4 Feb 2019 10:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 91 Resp: 1096326

Ion Ratio Lower Upper

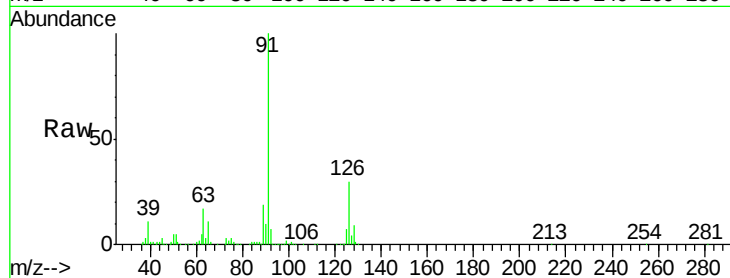
91 100

126 29.8 12.3 49.1

Manual Integrations
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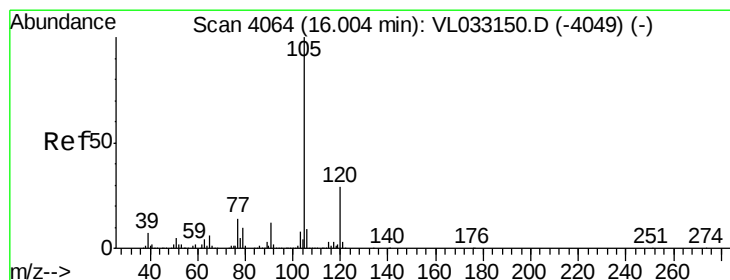
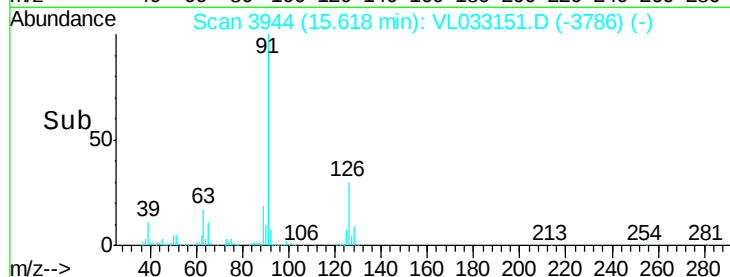
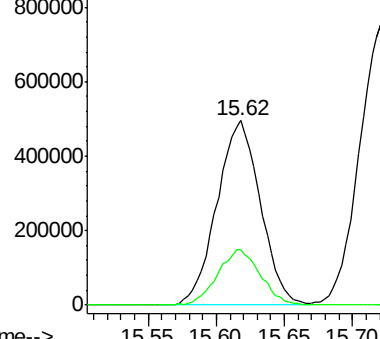
MMDadoda

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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: 2.319 ppbv

RT: 16.00 min Scan# 4063

Delta R.T. 0.00 min

Lab File: VL033151.D

Acq: 4 Feb 2019 10:42

Tgt Ion: 105 Resp: 1176374

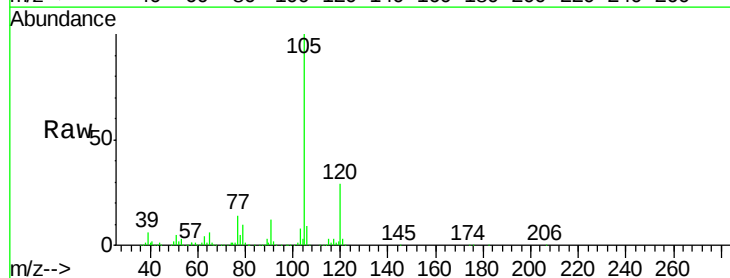
Ion Ratio Lower Upper

105 100

120 28.4 23.2 34.8

91 12.3 9.5 14.3

77 13.4 10.2 15.4

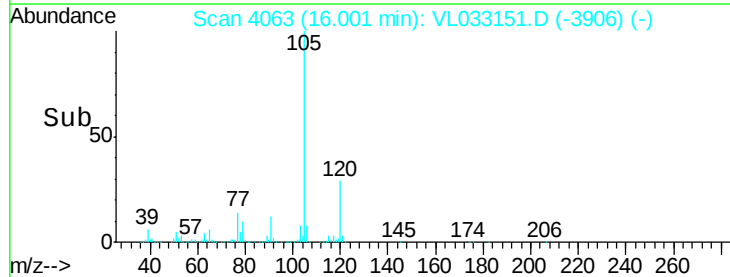
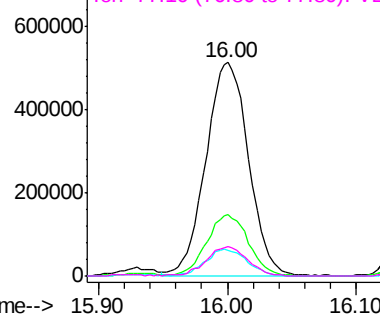


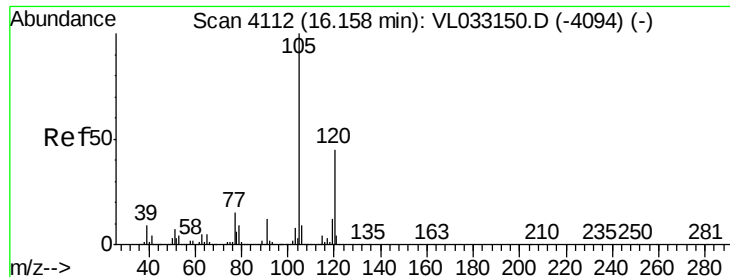
Abundance Ion 105.10 (104.80 to 105.80): V

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: 2.453 ppbv

RT: 16.15 min Scan# 4111

Delta R.T. 0.00 min

Lab File: VL033151.D

Acq: 4 Feb 2019 10:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion:105 Resp: 1121950

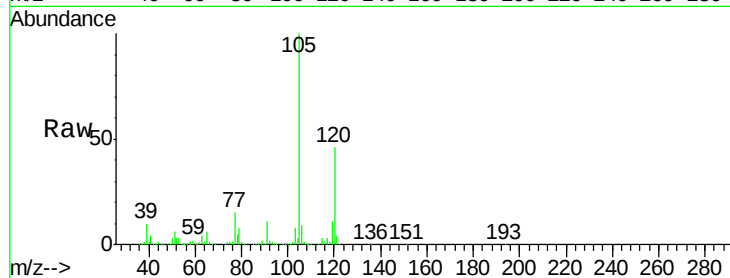
Ion Ratio Lower Upper

105 100

120 45.8 38.0 57.0

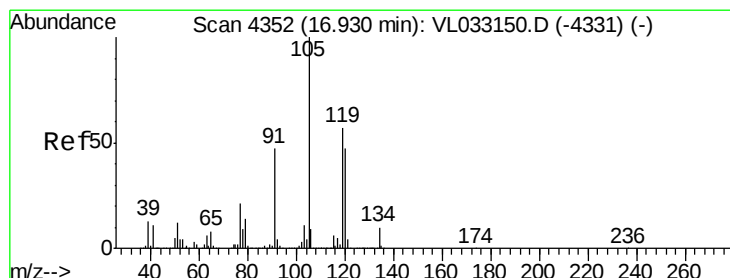
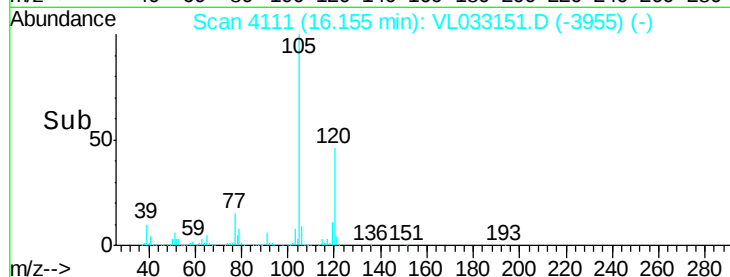
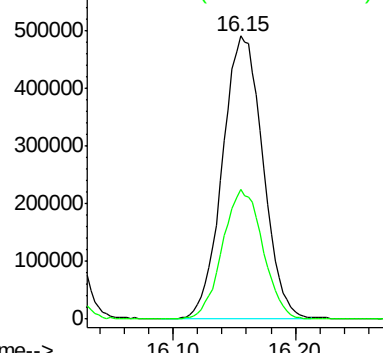
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 2.605 ppbv

RT: 16.93 min Scan# 4351

Delta R.T. 0.00 min

Lab File: VL033151.D

Acq: 4 Feb 2019 10:42

Tgt Ion:105 Resp: 1173507

Ion Ratio Lower Upper

105 100

120 44.9 38.2 57.4

91 41.9 35.0 52.4

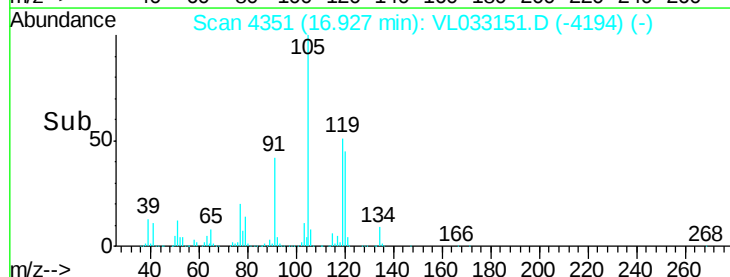
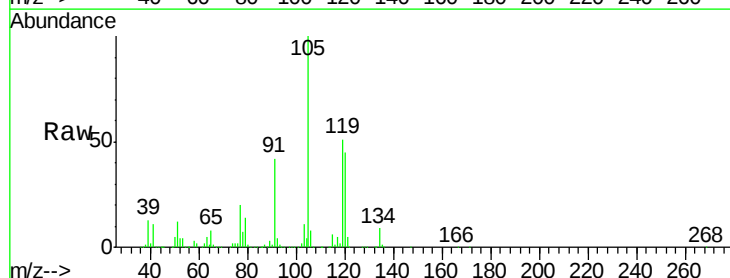
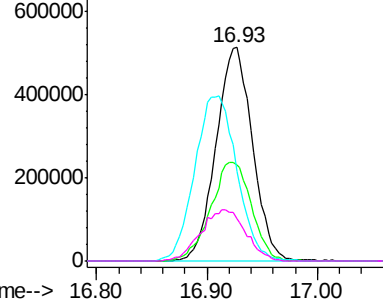
77 19.8 15.8 23.6

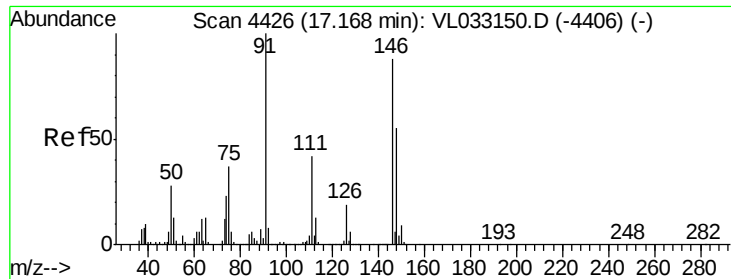
Abundance Ion 105.10 (104.80 to 105.80): V

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





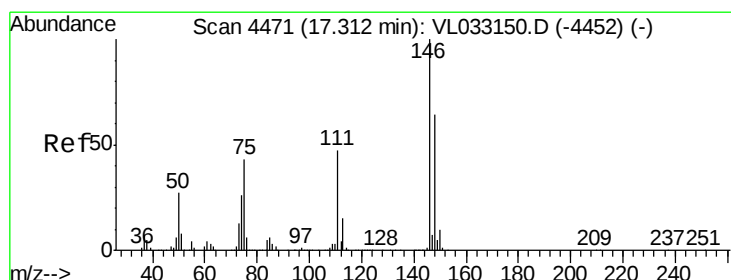
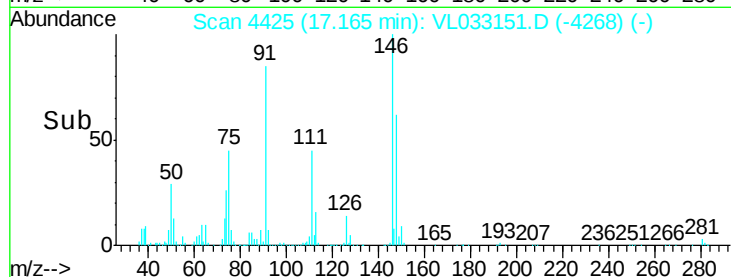
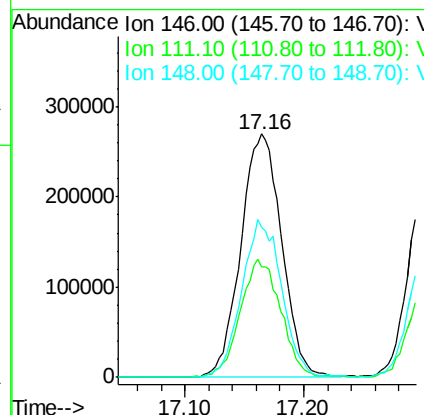
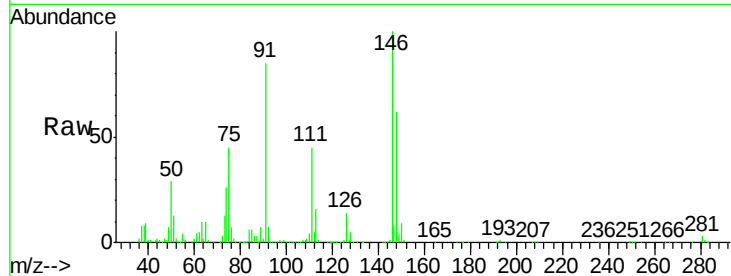
#75
 1,3-Dichlorobenzene
 Concen: 2.392 ppbv
 RT: 17.16 min Scan# 4425
 Delta R.T. 0.00 min
 Lab File: VL033151.D
 Acq: 4 Feb 2019 10:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.2	24.0	72.0
148	63.4	31.9	95.7

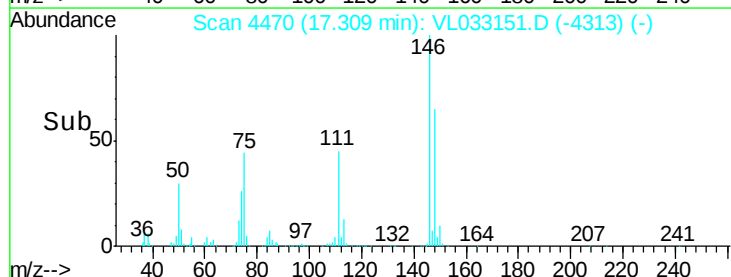
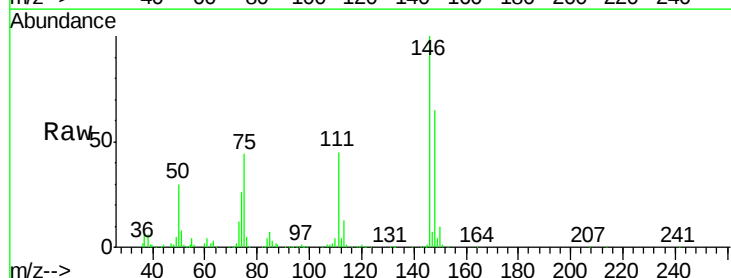
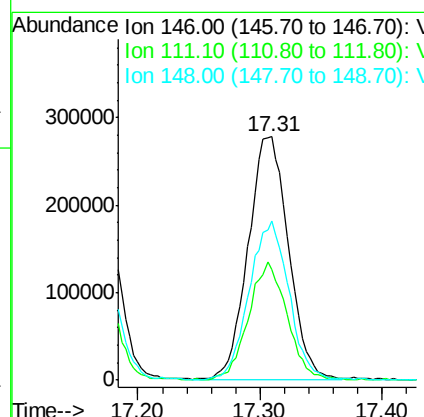
Manual Integrations
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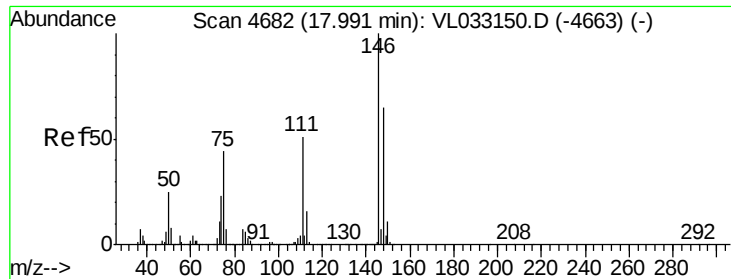
MMDadoda
 2/5/2019 10:27:04 AM



#76
 1,4-Dichlorobenzene
 Concen: 2.348 ppbv
 RT: 17.31 min Scan# 4470
 Delta R.T. 0.00 min
 Lab File: VL033151.D
 Acq: 4 Feb 2019 10:42

Tgt Ion	Ratio	Lower	Upper
146	100		
111	46.8	23.4	70.0
148	65.6	31.9	95.9





#77

1,2-Dichlorobenzene

Concen: 2.441 ppbv

RT: 17.98 min Scan# 4680

Delta R.T. 0.00 min

Lab File: VL033151.D

Acq: 4 Feb 2019 10:42

Instrument :

MSVOA_L

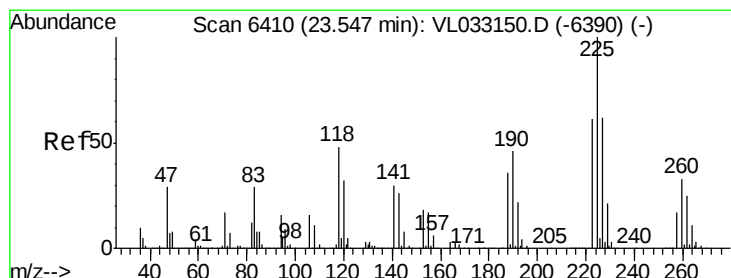
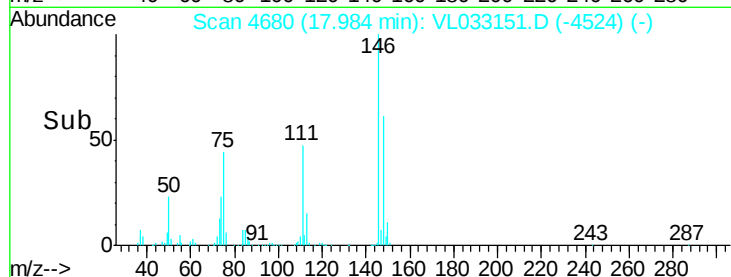
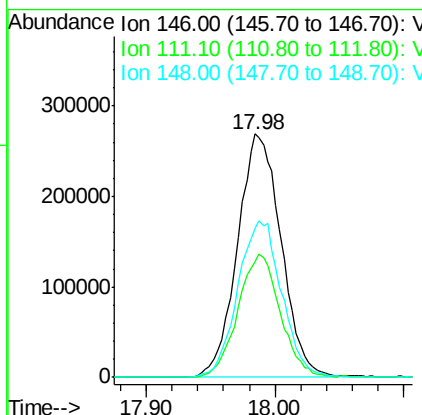
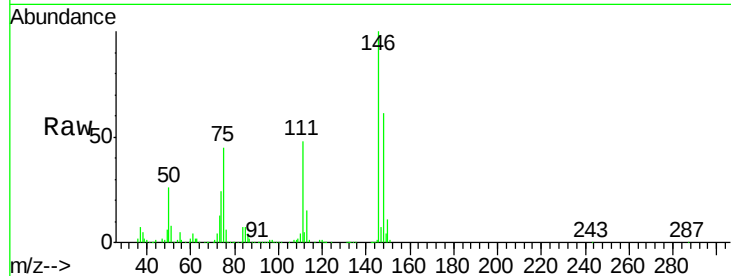
ClientSampleId :

VSTDIC002

Tot Ion:	146	Resp:	631759
Ion Ratio	Lower	Upper	
146	100		
111	49.3	25.1	75.3
148	65.1	32.0	96.2

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#78

Hexachloro-1,3-Butadiene

Concen: 2.370 ppbv

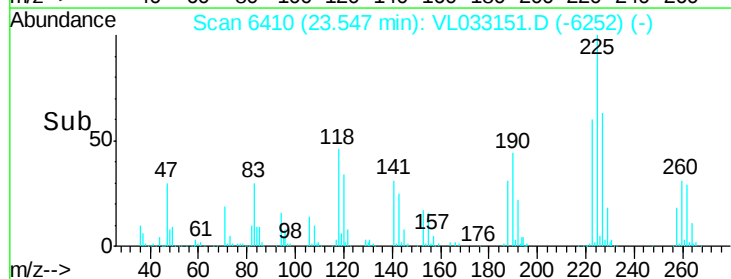
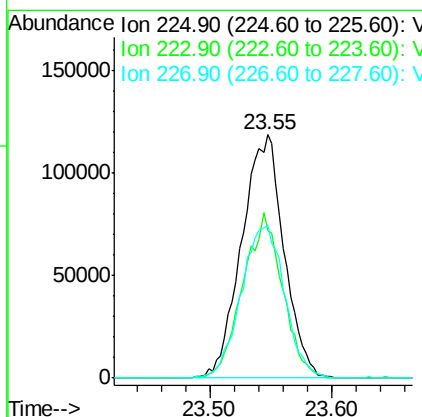
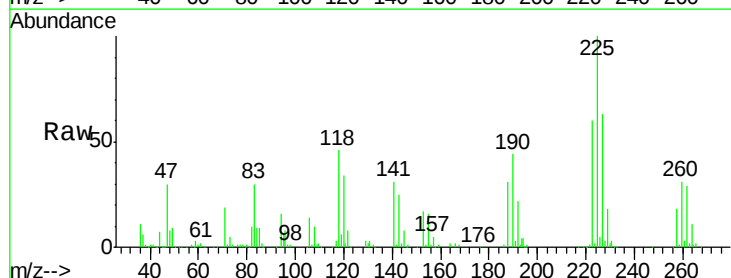
RT: 23.55 min Scan# 6410

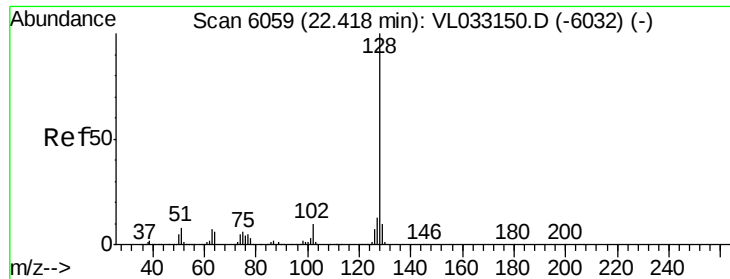
Delta R.T. 0.01 min

Lab File: VL033151.D

Acq: 4 Feb 2019 10:42

Tgt Ion:	225	Resp:	284255
Ion Ratio	Lower	Upper	
225	100		
223	63.5	50.2	75.4
227	64.3	51.1	76.7





#79

Naphthalene

Concen: 4.752 ppbv

RT: 22.41 min Scan# 6057

Delta R.T. 0.01 min

Lab File: VL033151.D

Acq: 4 Feb 2019 10:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion:128 Resp: 1403599

Ion Ratio Lower Upper

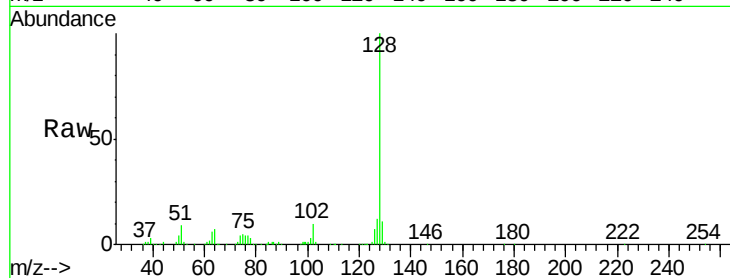
128 100

127 11.9 10.6 16.0

129 11.0 9.0 13.4

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Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V

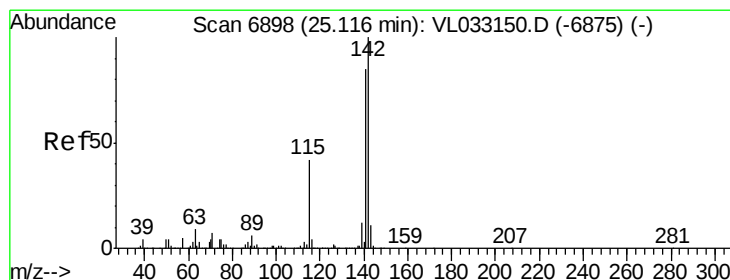
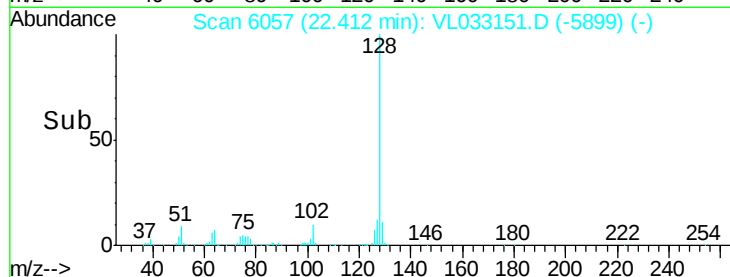
22.41

400000

200000

0

Time--> 22.30 22.40 22.50



#80

Naphthalene, 2-methyl-

Concen: 8.596 ppbv

RT: 25.12 min Scan# 6898

Delta R.T. 0.01 min

Lab File: VL033151.D

Acq: 4 Feb 2019 10:42

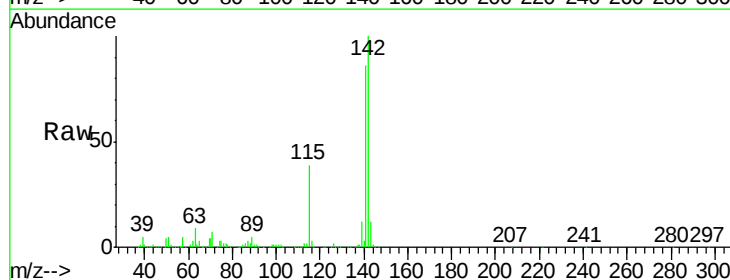
Tgt Ion:142 Resp: 748922

Ion Ratio Lower Upper

142 100

141 83.7 66.5 99.7

115 39.5 31.3 46.9



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

25.12

500000

400000

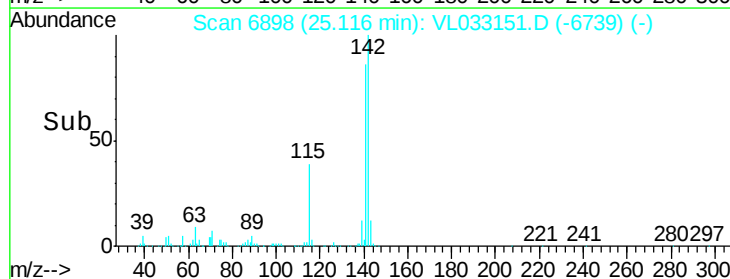
300000

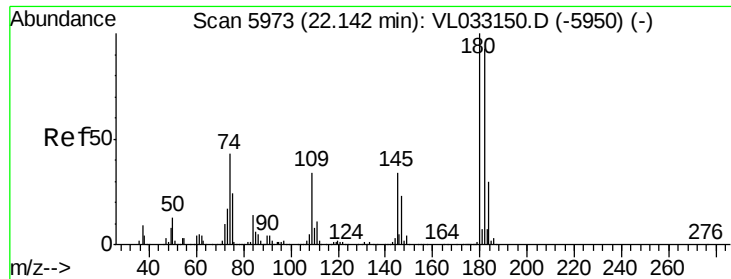
200000

100000

0

Time--> 25.00 25.10 25.20





#81
 1,2,4-Trichlorobenzene
 Concen: 4.047 ppbv
 RT: 22.13 min Scan# 5970
 Delta R.T. 0.00 min
 Lab File: VL033151.D
 Acq: 4 Feb 2019 10:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
180	100	629275		
182	95.7		76.2	114.4
184	30.5		24.6	36.8

Manual Integrations
 APPROVED

MMDadoda
 2/5/2019 10:27:04 AM

