

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050619\
 Data File : VL033654.D
 Acq On : 6 May 2019 10:59
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

MMDadoda
 5/8/2019 12:05:47 PM

Quant Time: May 06 12:23:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon May 0
 QLast Update : Mon May 06 12:00:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1033795	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2508739	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2793234	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	2137110	9.58	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.80%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.08	85	2178109	12.634	ppbv 100
3) Chlorodifluoromethane	3.02	51	1170262	9.391	ppbv 100
4) Chloromethane	3.17	50	672616	9.797	ppbv 100
5) Vinyl Chloride	3.29	62	659586	9.234	ppbv 100
6) Bromomethane	3.52	94	421359	9.926	ppbv 100
7) Chloroethane	3.60	64	240086	10.061	ppbv 100
8) Dichlorotetrafluoroethane	3.22	85	1723524	9.912	ppbv 100
9) Propene	3.04	41	508347	11.717	ppbv 100
10) Heptane	8.25	43	1389020	10.516	ppbv 100
11) Trichlorofluoromethane	4.00	101	2000061	10.425	ppbv 100
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1358564	10.311	ppbv 100
13) Ethanol	3.65	45	117944	7.358	ppbv 100
14) Bromoethene	3.79	108	557006	10.434	ppbv 100
15) Acetone	3.90	43	1250964	9.613	ppbv 100
16) 1,3-Butadiene	3.36	39	606851	10.474	ppbv 100
17) tert-Butyl alcohol	4.36	59	1093552	9.992	ppbv 100
18) 1,1-Dichloroethene	4.35	96	602073	10.529	ppbv 100
19) Isopropyl Alcohol	4.03	45	845597	9.729	ppbv 100
20) Methylene Chloride	4.41	84	505376	9.928	ppbv 100
21) Allyl Chloride	4.48	41	879372	10.791	ppbv 100
22) trans-1,2-Dichloroethene	4.96	96	621140	11.002	ppbv 100
23) Vinyl Acetate	5.16	43	1960319	10.395	ppbv 100
24) 1,1-Dichloroethane	5.09	63	1365981	9.684	ppbv 100
25) Ethyl Acetate	5.77	43	2337431	9.712	ppbv 100
26) Hexane	5.78	57	1032682	10.142	ppbv 100
27) Carbon Disulfide	4.62	76	1497054	11.839	ppbv 100
28) Methyl tert-Butyl Ether	5.11	73	1769182	10.341	ppbv 100
29) Chloroform	5.85	83	1772746	9.519	ppbv 100
30) Cyclohexane	7.25	84	923609	10.699	ppbv 100
31) cis-1,2-Dichloroethene	5.64	61	1063557	10.368	ppbv 100
32) 1,1,1-Trichloroethane	6.62	97	1897936	9.727	ppbv 100
34) 2-Butanone	5.33	43	1546914	9.968	ppbv 100
35) Carbon Tetrachloride	7.13	117	2049786	10.180	ppbv 100
36) Benzene	7.01	78	2254828	10.380	ppbv 100
37) 1,2-Dichloroethane	6.41	62	1392619	9.658	ppbv 100
38) Trichloroethene	7.96	130	902480	10.458	ppbv 100
39) 1,2-Dichloropropane	7.74	63	833013	10.230	ppbv 100
40) 1,4-Dioxane	7.95	88	333534	10.201	ppbv 100
41) Tetrahydrofuran	6.15	42	875806	10.515	ppbv 100
42) Bromodichloromethane	7.92	83	2025629	10.366	ppbv 100
43) Methyl Methacrylate	8.14	69	895810	10.937	ppbv 100

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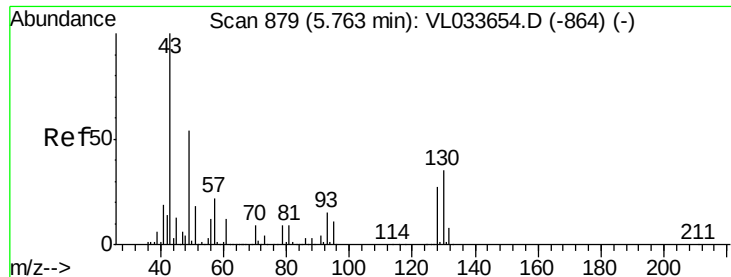
Manual Integrations
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Quant Time: May 06 12:23:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon May 0
 QLast Update : Mon May 06 12:00:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3793955	10.051	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	1224160	11.582	ppbv	100
46) cis-1,3-Dichloropropene	8.83	75	1416038	11.576	ppbv	100
47) 1,1,2-Trichloroethane	9.61	97	931387	9.674	ppbv	100
48) Dibromochloromethane	10.45	129	1732356	10.713	ppbv	100
49) Bromoform	13.20	173	1554839	11.208	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	2506024	10.297	ppbv	100
51) 2-Hexanone	10.27	43	2024738	10.596	ppbv	100
52) Tetrachloroethene	11.37	164	845964	10.281	ppbv	100
53) Toluene	9.95	91	2619860	10.688	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1476593	10.264	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.28	131	1170102	9.566	ppbv	97
57) Chlorobenzene	12.30	112	2025762	9.297	ppbv	100
58) Ethyl Benzene	12.86	91	3667317	10.458	ppbv	100
59) m/p-Xylene	13.15	91	6103755m	20.221	ppbv	
60) o-Xylene	13.85	91	3091446	10.167	ppbv	100
61) Styrene	13.69	104	2303005	11.042	ppbv	100
62) Isopropylbenzene	14.82	105	4107924	10.139	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	2131144	9.262	ppbv	100
64) n-propylbenzene	15.72	120	1082216	10.269	ppbv	100
65) tert-Butylbenzene	16.91	119	3805745	10.035	ppbv	100
66) Benzyl Chloride	17.15	91	2080781	11.898	ppbv	100
67) sec-Butylbenzene	17.46	105	5346001	10.053	ppbv	100
69) p-Isopropyltoluene	17.81	119	4522026	10.218	ppbv	100
70) n-Butylbenzene	18.71	91	4823758	10.000	ppbv	100
71) 2-Chlorotoluene	15.61	91	3150076	10.359	ppbv	100
72) 4-Ethyltoluene	16.00	105	3705242	10.647	ppbv	100
73) 1,3,5-Trimethylbenzene	16.15	105	3518371	10.319	ppbv	100
74) 1,2,4-Trimethylbenzene	16.93	105	3684415	9.743	ppbv	100
75) 1,3-Dichlorobenzene	17.16	146	2188201	9.326	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	2182703	9.754	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	2093223	9.581	ppbv	100
78) Hexachloro-1,3-Butadiene	23.54	225	1423377	8.539	ppbv	100
79) Naphthalene	22.41	128	3804750	10.780	ppbv	100
80) Naphthalene, 2-methyl-	25.11	142	1634251	10.912	ppbv	100
81) 1,2,4-Trichlorobenzene	22.14	180	2043730	10.050	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. 0.00 min

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ClientSampleId :

VSTDICCC010

Tot Ion: 49 Resp: 1033795

Ion Ratio Lower Upper

49 100

128 49.5 24.8 74.4

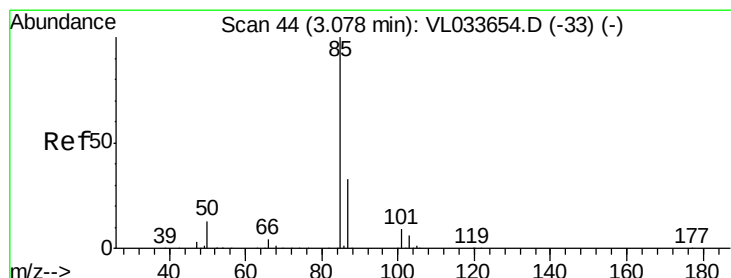
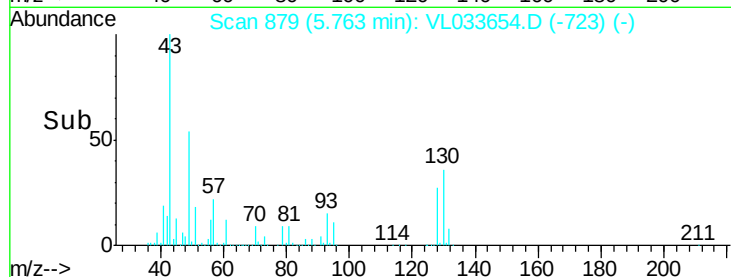
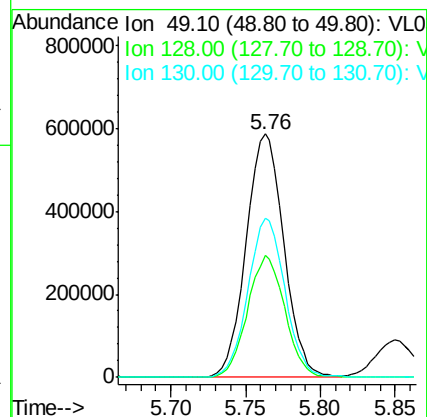
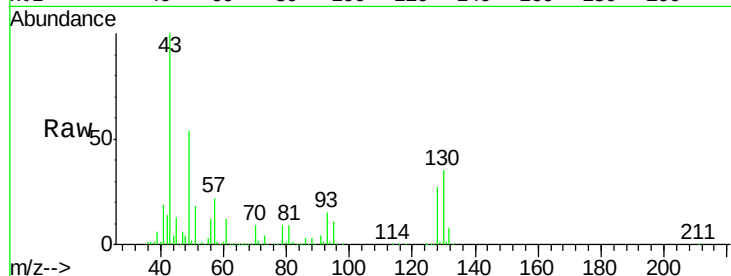
130 64.3 32.1 96.5

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 12.634 ppbv

RT: 3.08 min Scan# 44

Delta R.T. 0.00 min

Lab File: VL033654.D

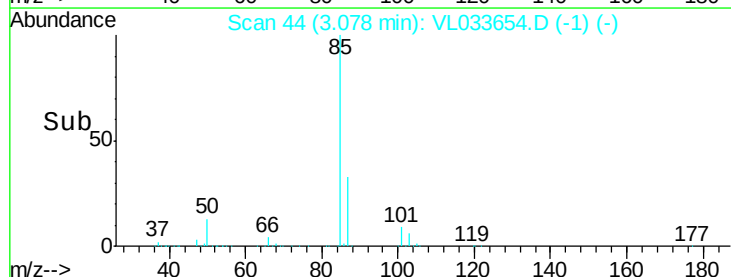
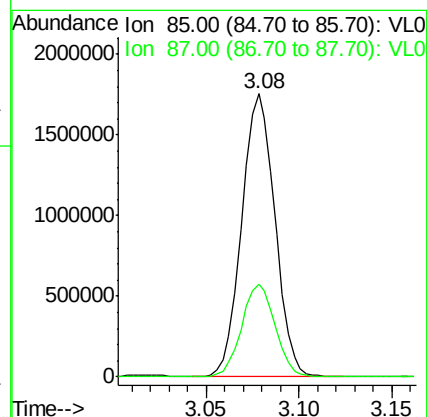
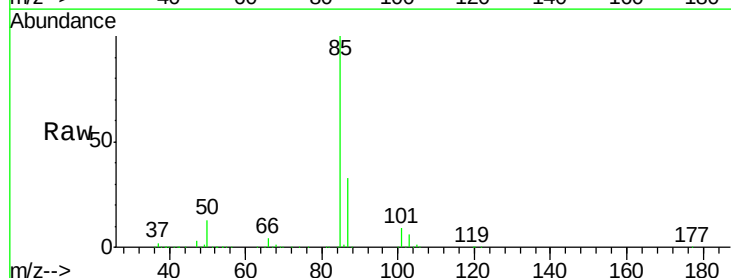
Acq: 6 May 2019 10:59

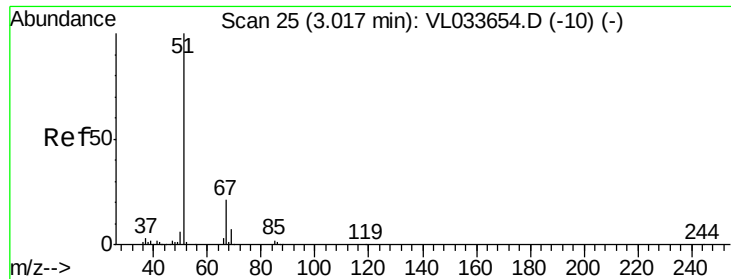
Tgt Ion: 85 Resp: 2178109

Ion Ratio Lower Upper

85 100

87 32.5 26.0 39.0





#3

Chlorodifluoromethane

Concen: 9.391 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL033654.D

Acq: 6 May 2019 10:59

Tot Ion: 51 Resp: 1170262

Ion Ratio Lower Upper

51 100

67 19.6 15.7 23.5

Instrument :

MSVOA_L

ClientSampleId :

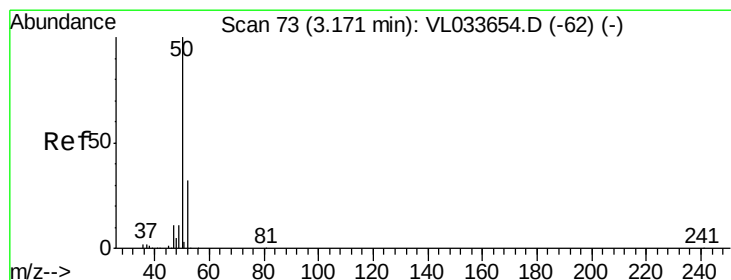
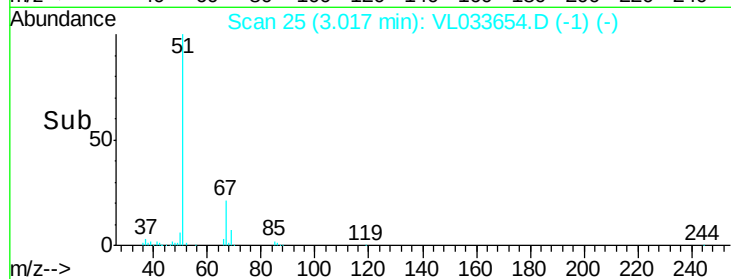
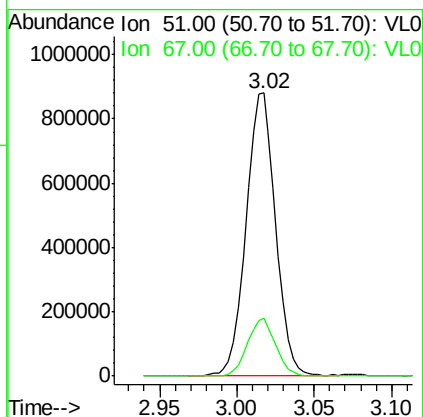
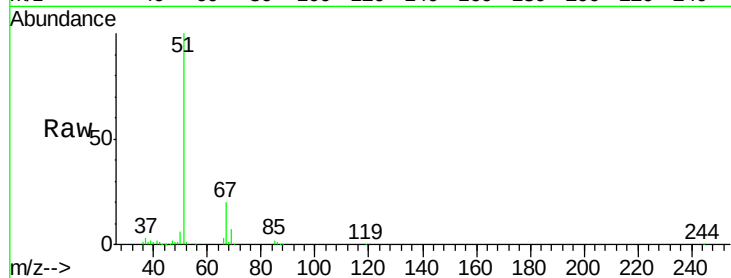
VSTDICCC010

Manual Integrations

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#4

Chloromethane

Concen: 9.797 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033654.D

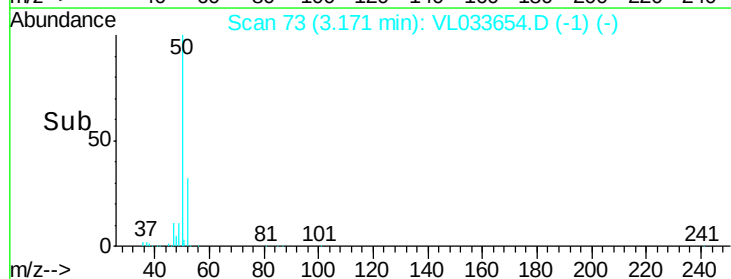
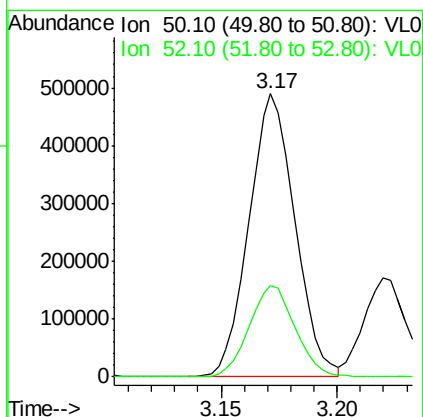
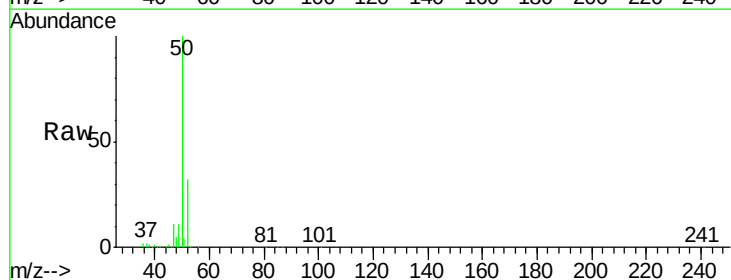
Acq: 6 May 2019 10:59

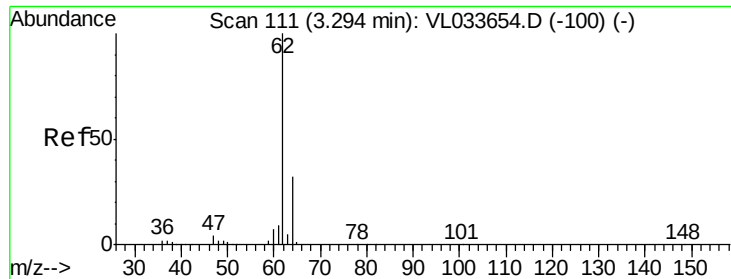
Tgt Ion: 50 Resp: 672616

Ion Ratio Lower Upper

50 100

52 32.3 25.8 38.8





#5

Vinyl Chloride

Concen: 9.234 ppbv

RT: 3.29 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL033654.D

Acq: 6 May 2019 10:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 62 Resp: 659586

Ion Ratio Lower Upper

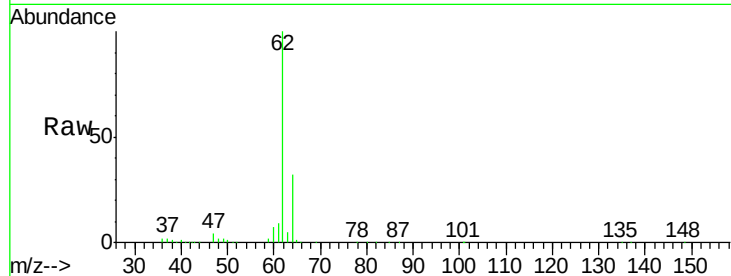
62 100

64 32.0 25.6 38.4

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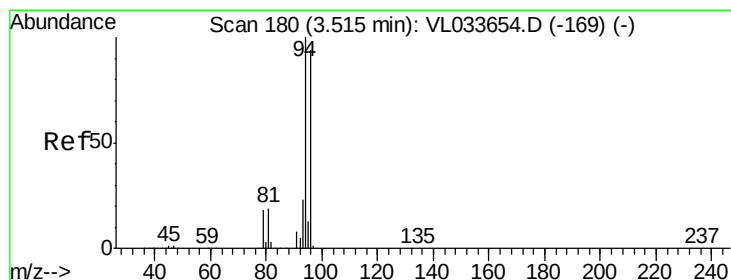
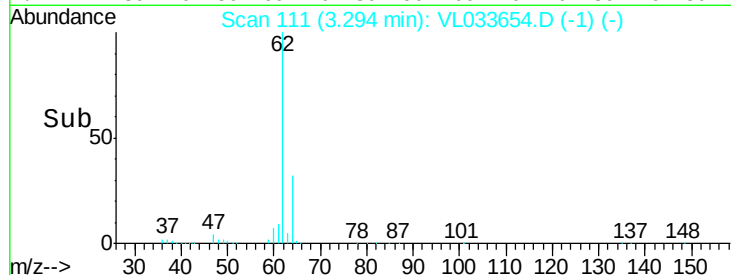
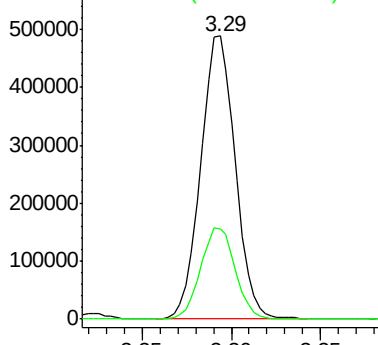
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 9.926 ppbv

RT: 3.52 min Scan# 180

Delta R.T. 0.00 min

Lab File: VL033654.D

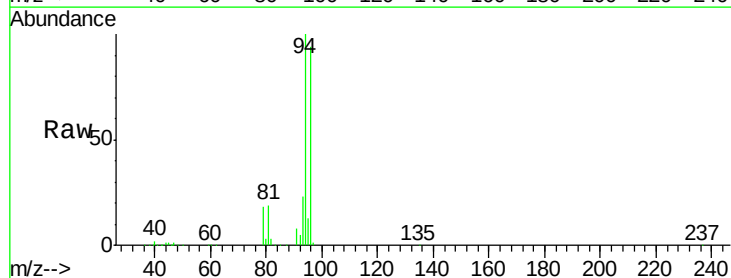
Acq: 6 May 2019 10:59

Tgt Ion: 94 Resp: 421359

Ion Ratio Lower Upper

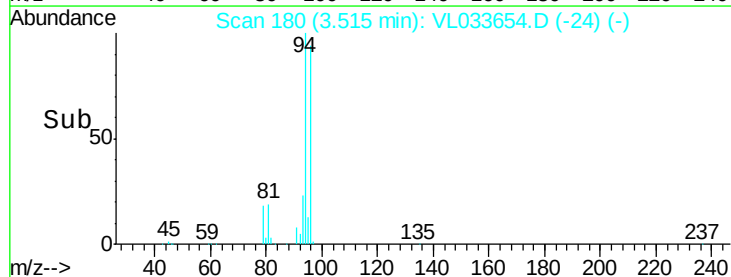
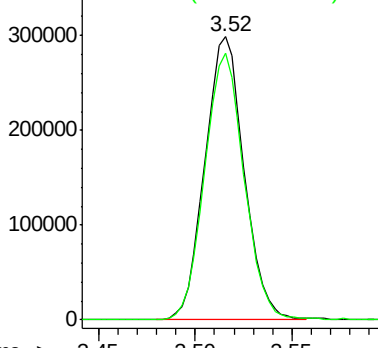
94 100

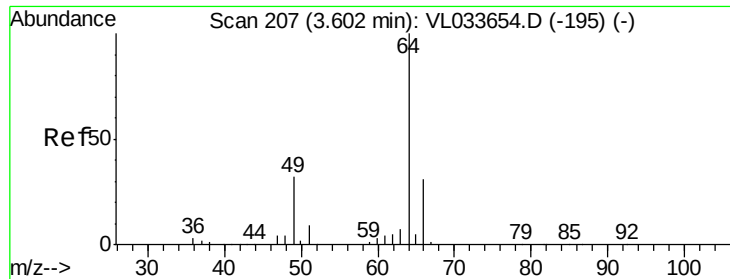
96 94.0 75.2 112.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 10.061 ppbv

RT: 3.60 min Scan# 207

Delta R.T. 0.00 min

Lab File: VL033654.D

Acq: 6 May 2019 10:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 64 Resp: 240086

Ion Ratio Lower Upper

64 100

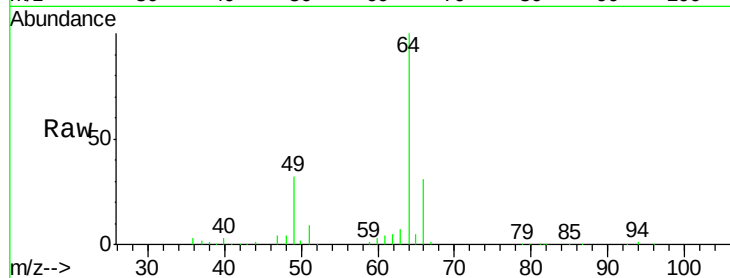
66 31.4 25.1 37.7

Manual Integrations

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

200000

150000

100000

50000

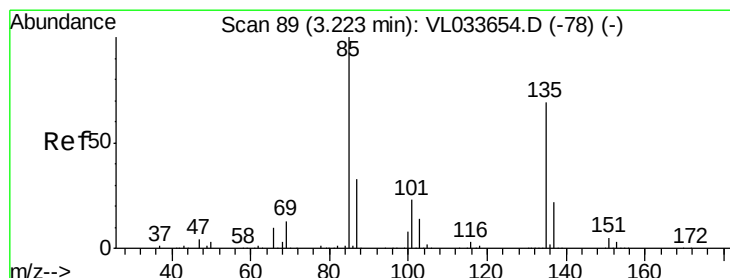
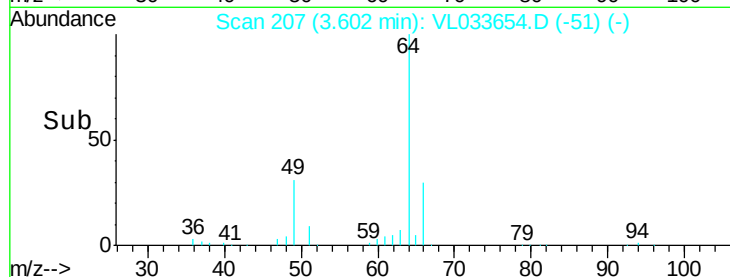
0

3.55

3.60

3.65

Time-->



#8

Dichlorotetrafluoroethane

Concen: 9.912 ppbv

RT: 3.22 min Scan# 89

Delta R.T. 0.00 min

Lab File: VL033654.D

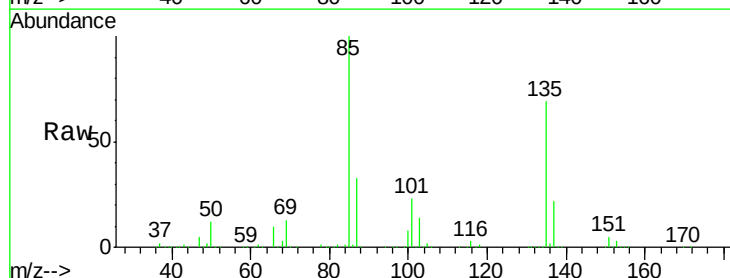
Acq: 6 May 2019 10:59

Tgt Ion: 85 Resp: 1723524

Ion Ratio Lower Upper

85 100

135 67.9 54.3 81.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): VL0

1500000

1000000

500000

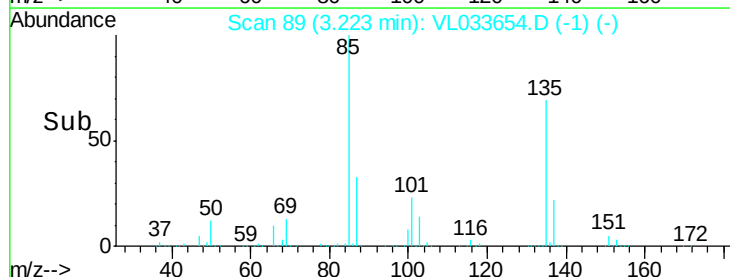
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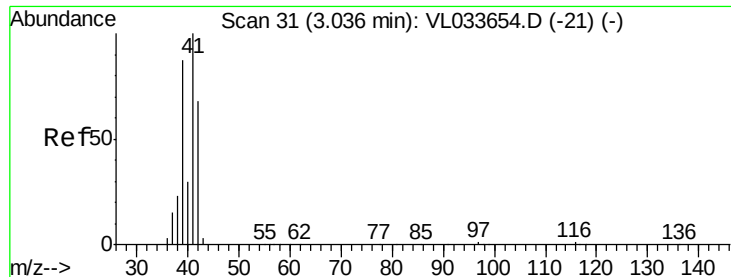
3.20

3.22

3.25

Time-->





#9

Propene

Concen: 11.717 ppbv

RT: 3.04 min Scan# 31

Delta R.T. 0.00 min

Lab File: VL033654.D

Acq: 6 May 2019 10:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 41 Resp: 508347

Ion Ratio Lower Upper

41 100

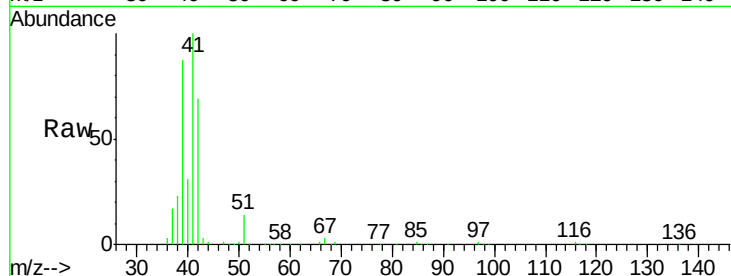
42 69.5 55.6 83.4

Manual Integrations

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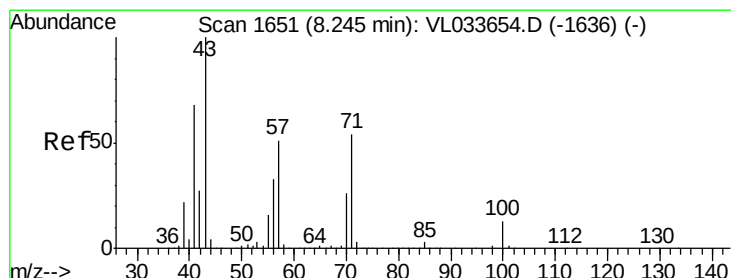
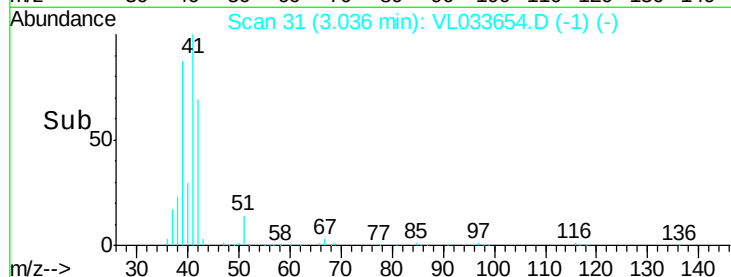
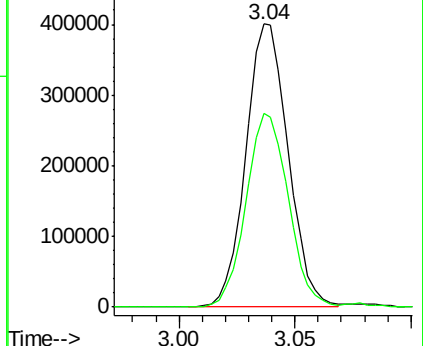
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 10.516 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. 0.00 min

Lab File: VL033654.D

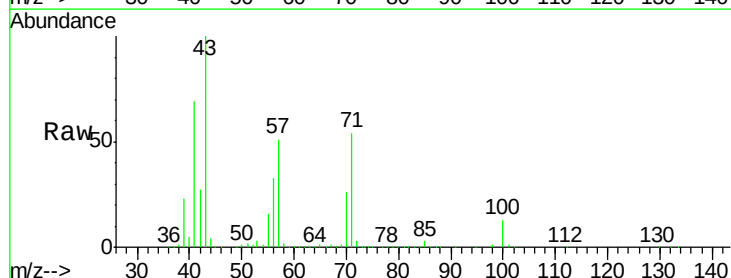
Acq: 6 May 2019 10:59

Tgt Ion: 43 Resp: 1389020

Ion Ratio Lower Upper

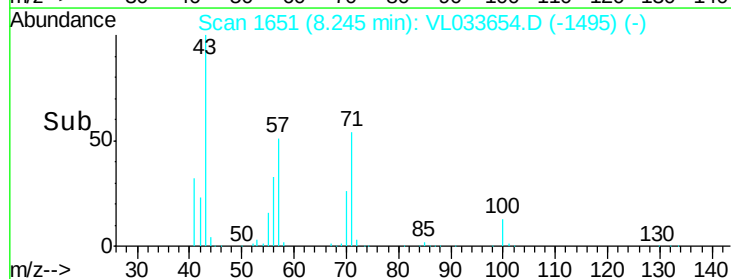
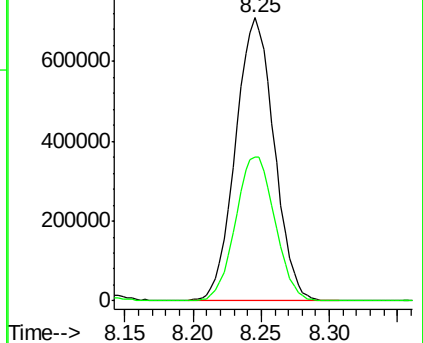
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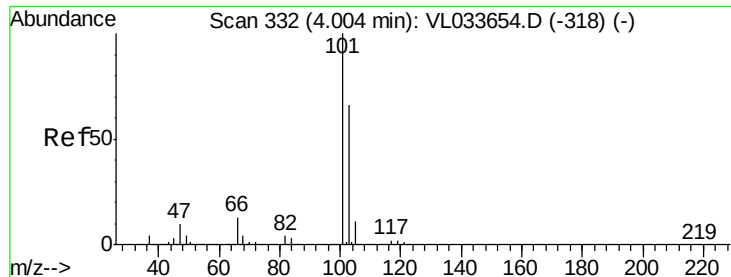
57 52.2 41.8 62.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





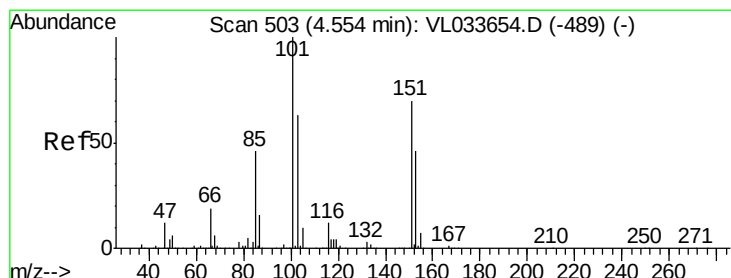
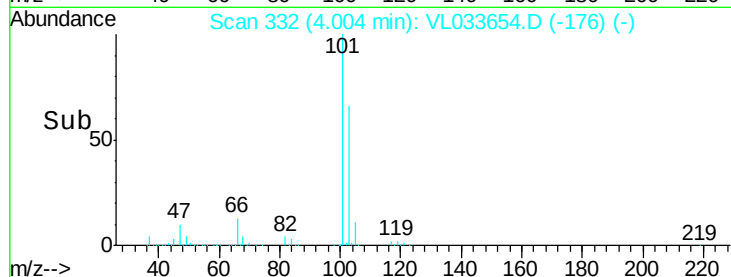
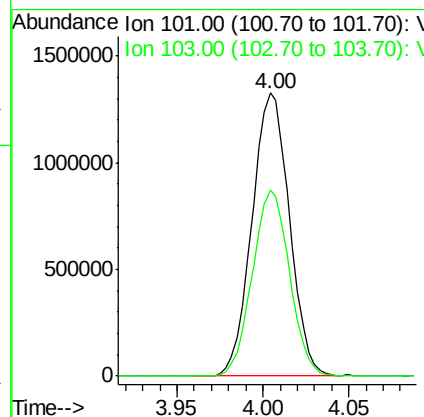
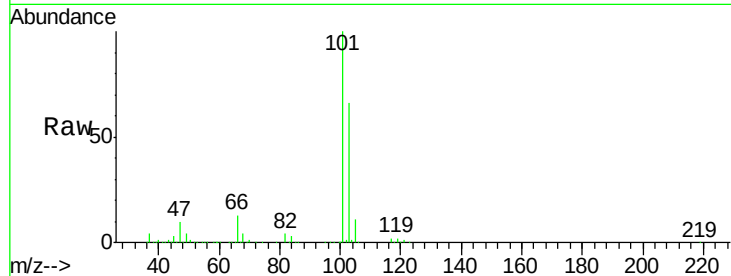
#11
 Trichlorofluoromethane
 Concen: 10.425 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. 0.00 min
 Lab File: VL033654.D
 Acq: 6 May 2019 10:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion:101 Resp: 2000061
 Ion Ratio Lower Upper
 101 100
 103 65.9 52.7 79.1

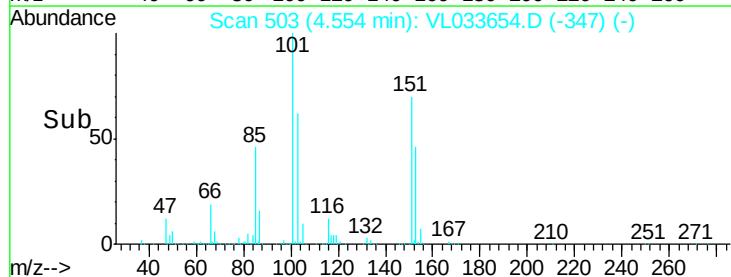
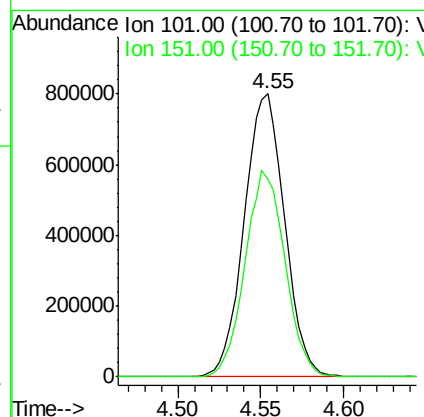
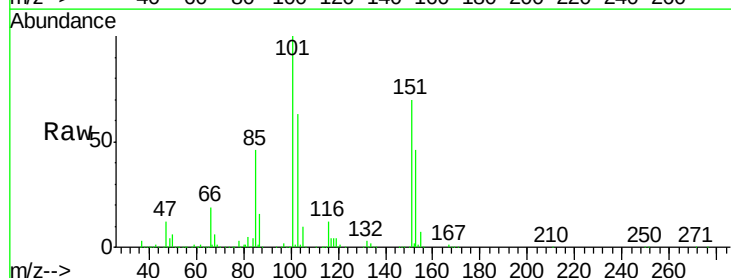
Manual Integrations
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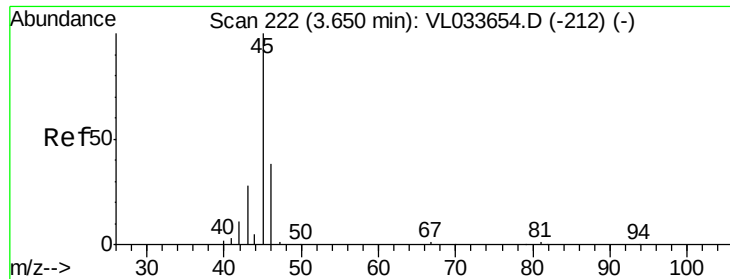
MMDadoda
 5/8/2019 12:05:47 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 10.311 ppbv
 RT: 4.55 min Scan# 503
 Delta R.T. 0.00 min
 Lab File: VL033654.D
 Acq: 6 May 2019 10:59

Tgt Ion:101 Resp: 1358564
 Ion Ratio Lower Upper
 101 100
 151 72.5 58.0 87.0





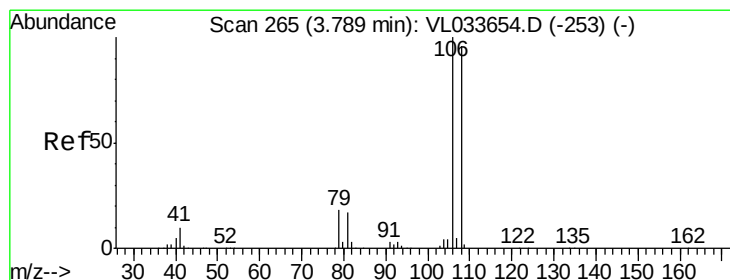
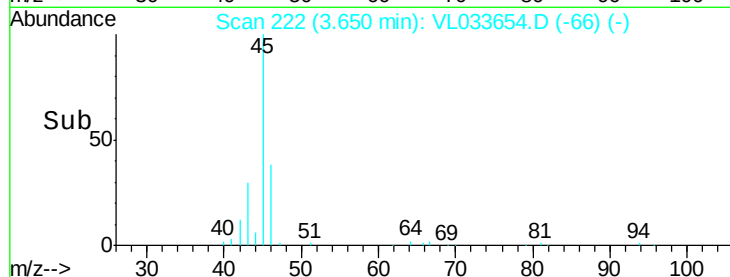
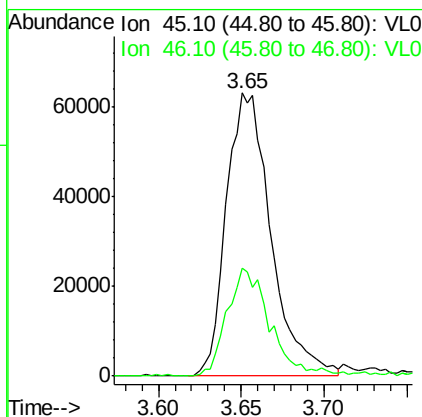
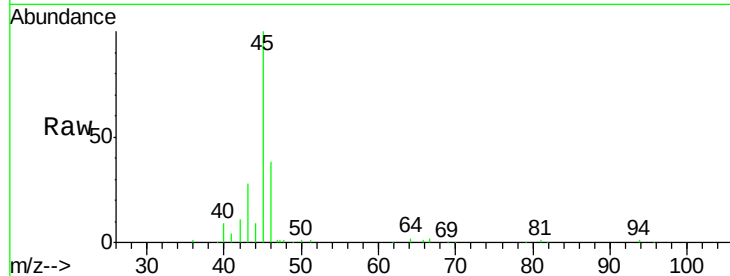
#13
Ethanol
Concen: 7.358 ppbv
RT: 3.65 min Scan# 222
Delta R.T. 0.00 min
Lab File: VL033654.D
Acq: 6 May 2019 10:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	45	46	Ratio	Lower	Upper
117944	100	37.3		14.9	59.7

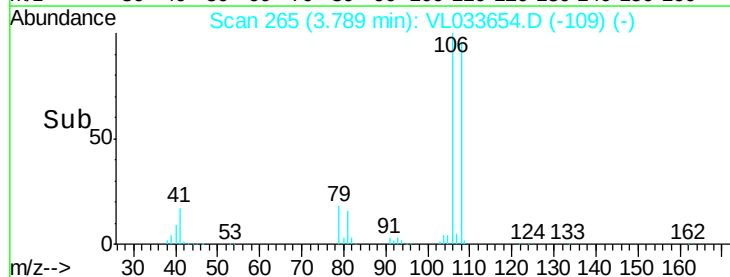
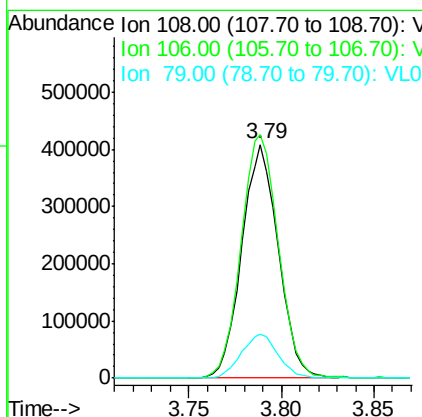
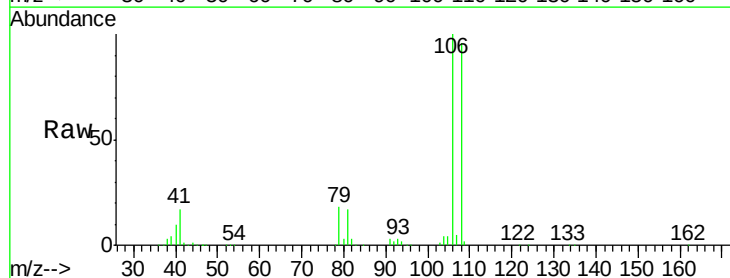
Manual Integrations
APPROVED

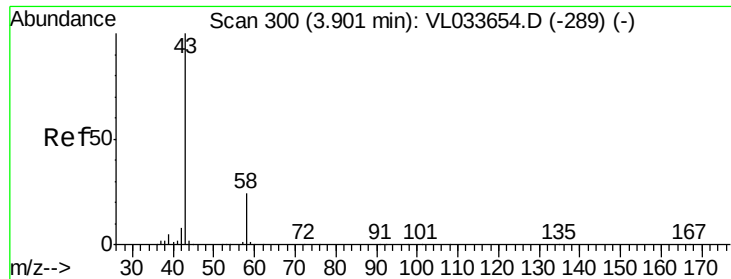
MMDadoda
5/8/2019 12:05:47 PM



#14
Bromoethene
Concen: 10.434 ppbv
RT: 3.79 min Scan# 265
Delta R.T. 0.00 min
Lab File: VL033654.D
Acq: 6 May 2019 10:59

Tgt Ion	108	106	79	Ratio	Lower	Upper
557006	100	107.1	19.0		85.8	128.6
					15.2	22.8





#15

Acetone

Concen: 9.613 ppbv

RT: 3.90 min Scan# 300

Delta R.T. 0.00 min

Lab File: VL033654.D

Acq: 6 May 2019 10:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 43 Resp: 1250964

Ion Ratio Lower Upper

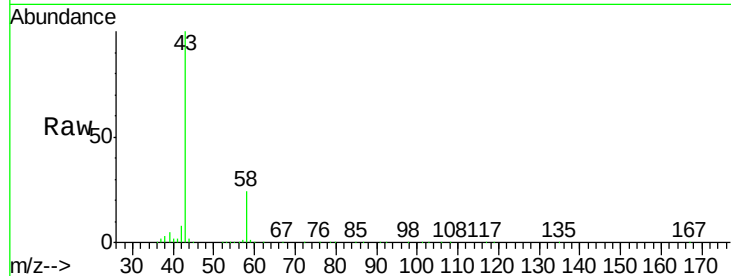
43 100

58 26.1 20.9 31.3

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

800000

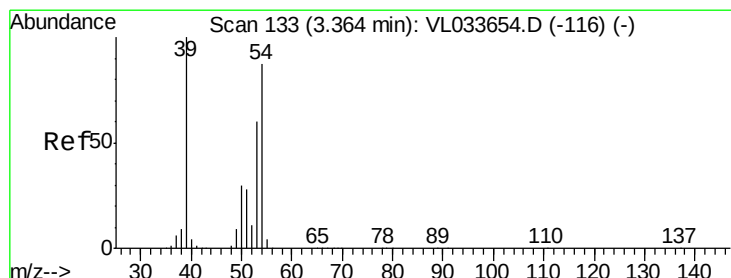
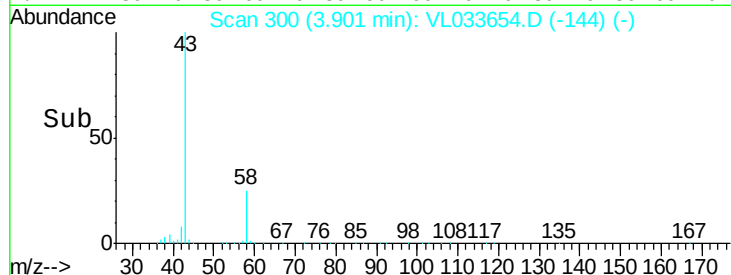
600000

400000

200000

0

Time-->



#16

1,3-Butadiene

Concen: 10.474 ppbv

RT: 3.36 min Scan# 133

Delta R.T. 0.00 min

Lab File: VL033654.D

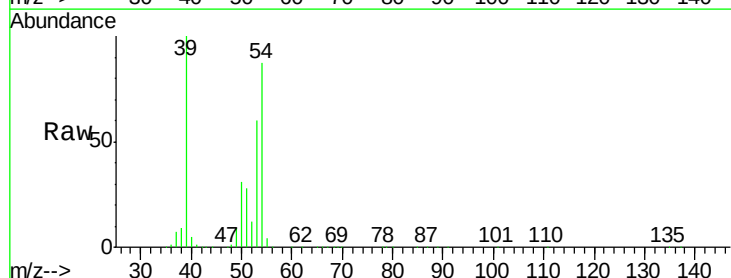
Acq: 6 May 2019 10:59

Tgt Ion: 39 Resp: 606851

Ion Ratio Lower Upper

39 100

54 83.7 67.0 100.4



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.36

500000

400000

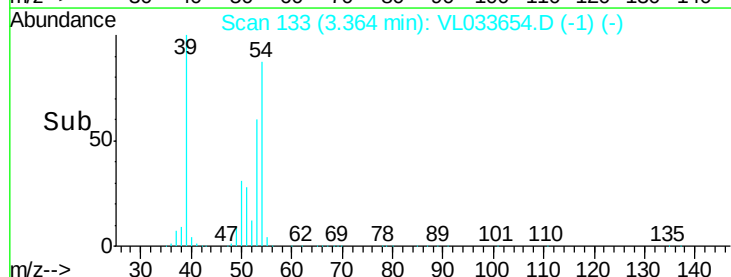
300000

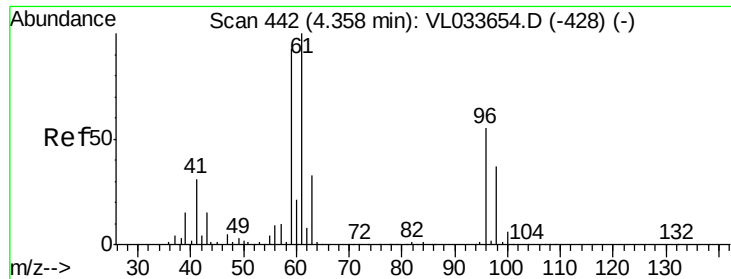
200000

100000

0

Time-->





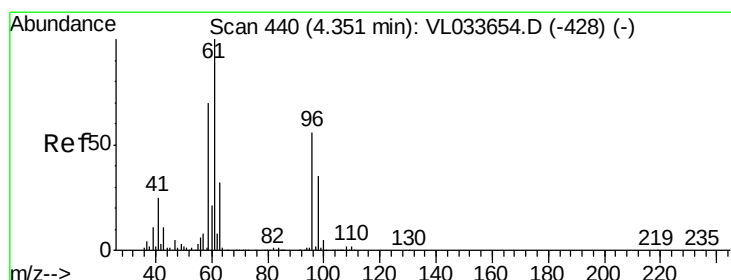
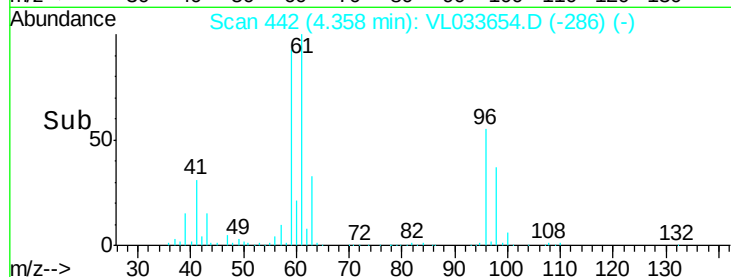
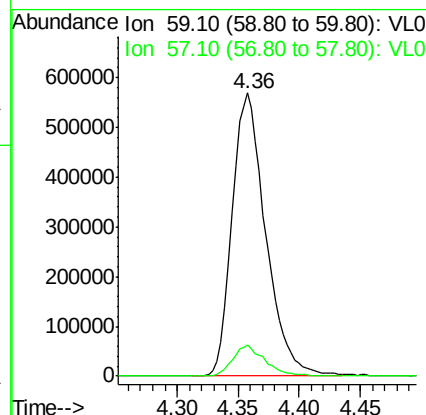
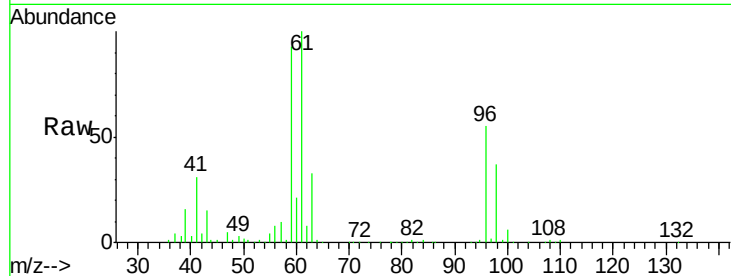
#17
 tert-Butyl alcohol
 Concen: 9.992 ppbv
 RT: 4.36 min Scan# 442
 Delta R.T. 0.00 min
 Lab File: VL033654.D
 Acq: 6 May 2019 10:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion: 59 Resp: 1093552
 Ion Ratio Lower Upper
 59 100
 57 10.5 8.4 12.6

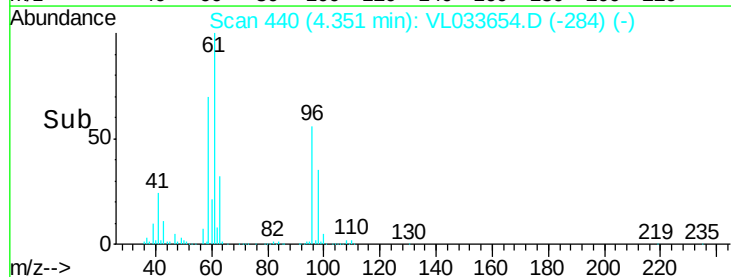
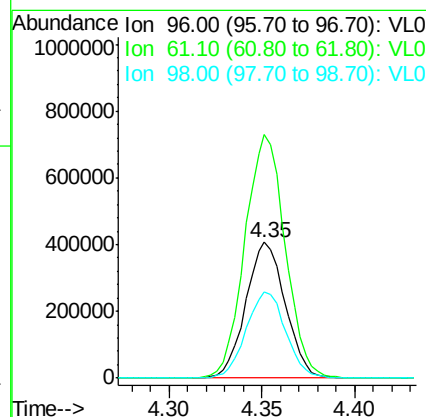
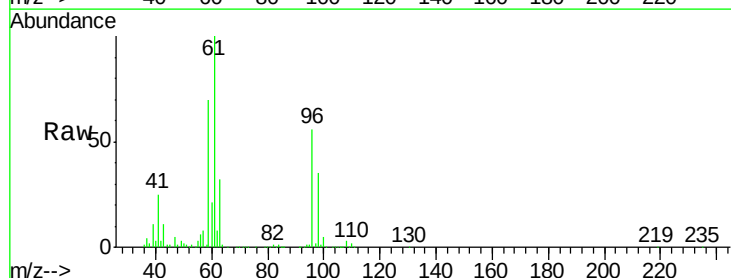
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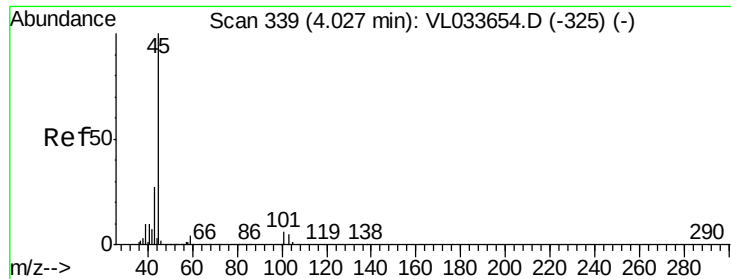
MMDadoda
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#18
 1,1-Dichloroethene
 Concen: 10.529 ppbv
 RT: 4.35 min Scan# 440
 Delta R.T. 0.00 min
 Lab File: VL033654.D
 Acq: 6 May 2019 10:59

Tgt Ion: 96 Resp: 602073
 Ion Ratio Lower Upper
 96 100
 61 179.2 143.4 215.0
 98 63.0 50.4 75.6





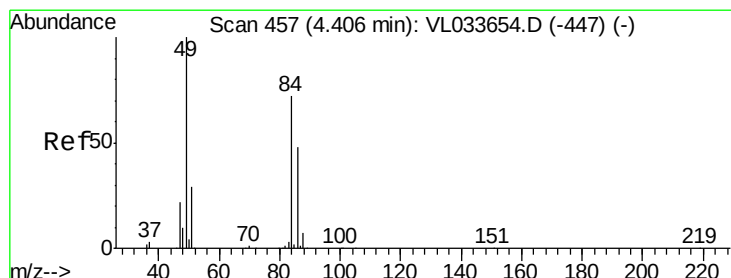
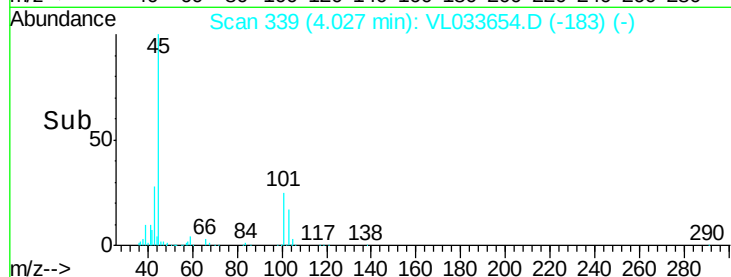
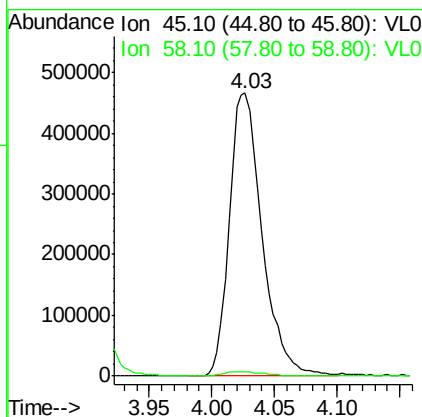
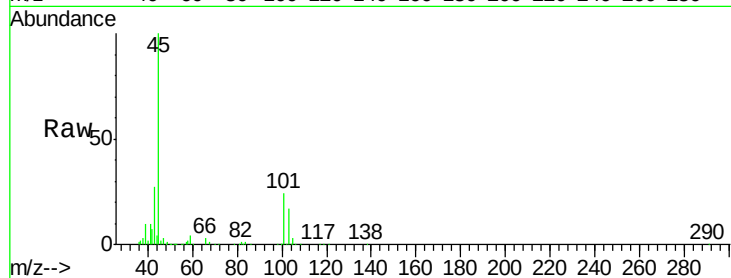
#19
Isopropyl Alcohol
Concen: 9.729 ppbv
RT: 4.03 min Scan# 339
Delta R.T. 0.00 min
Lab File: VL033654.D
Acq: 6 May 2019 10:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	45	Resp	845597
Ion Ratio	100	Lower	Upper
58	2.5	1.9	2.9

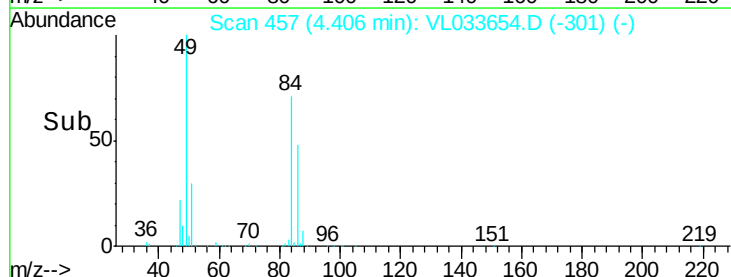
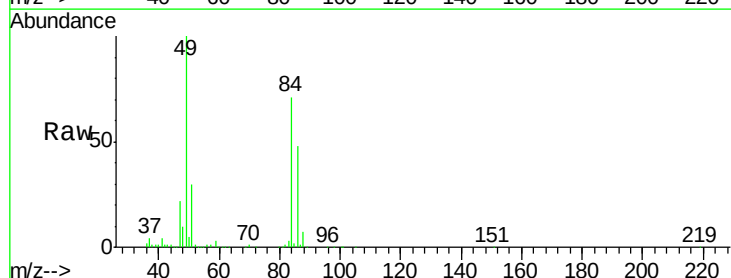
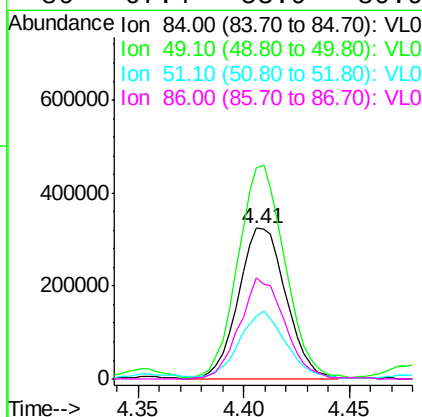
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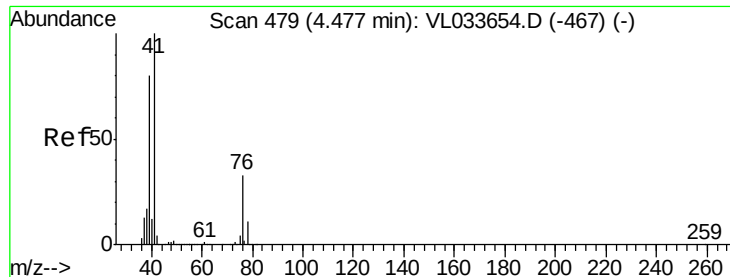
MMDadoda
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#20
Methylene Chloride
Concen: 9.928 ppbv
RT: 4.41 min Scan# 457
Delta R.T. 0.00 min
Lab File: VL033654.D
Acq: 6 May 2019 10:59

Tgt Ion	84	Resp	505376
Ion Ratio	100	Lower	Upper
49	139.7	111.8	167.6
51	40.4	32.3	48.5
86	67.4	53.9	80.9





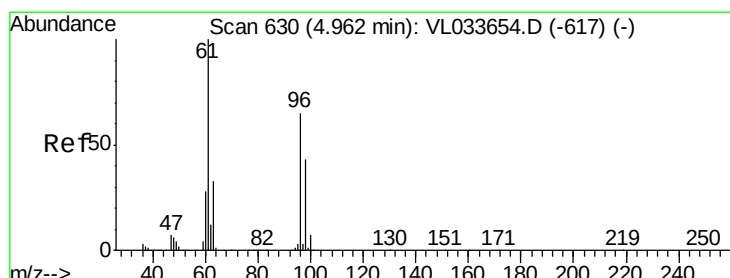
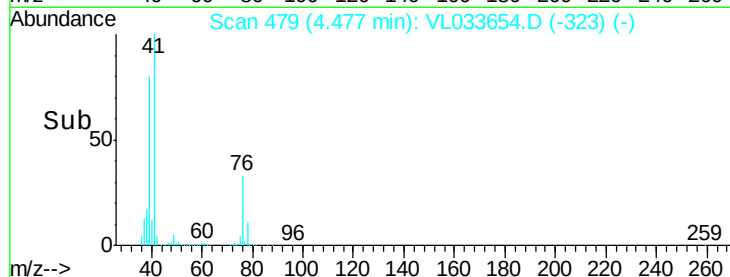
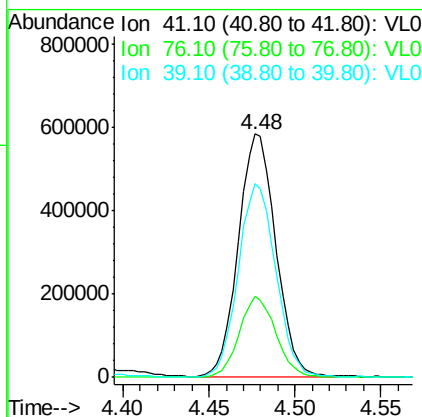
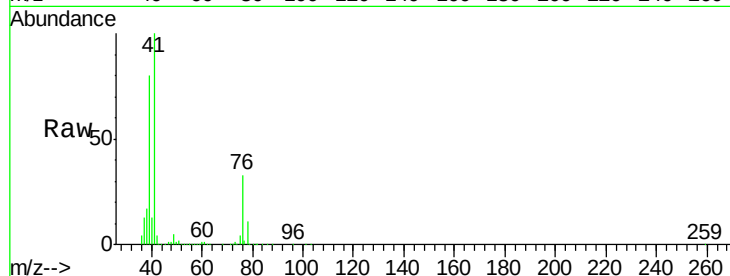
#21
Allvl Chloride
Concen: 10.791 ppbv
RT: 4.48 min Scan# 479
Delta R.T. 0.00 min
Lab File: VL033654.D
Acq: 6 May 2019 10:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
41	100		
76	32.5	26.0	39.0
39	80.5	64.4	96.6

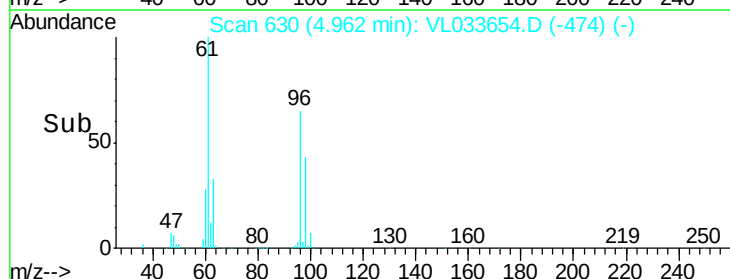
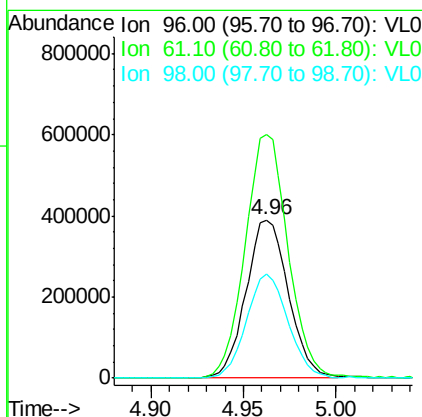
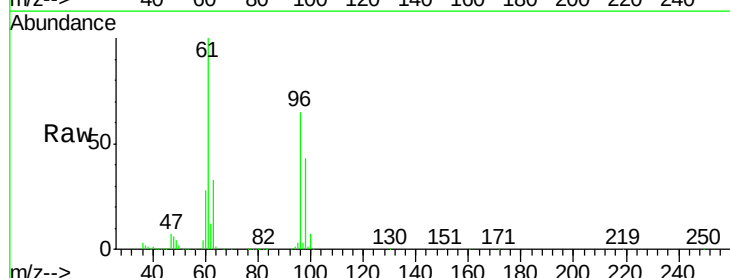
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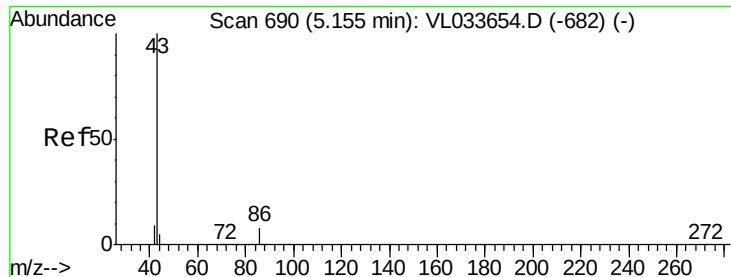
MMDadoda
5/8/2019 12:05:47 PM



#22
trans-1,2-Dichloroethene
Concen: 11.002 ppbv
RT: 4.96 min Scan# 630
Delta R.T. 0.00 min
Lab File: VL033654.D
Acq: 6 May 2019 10:59

Tgt Ion	Ratio	Lower	Upper
96	100		
61	153.9	123.1	184.7
98	65.8	52.6	79.0





#23

Vinyl Acetate

Concen: 10.395 ppbv

RT: 5.16 min Scan# 690

Delta R.T. 0.00 min

Lab File: VL033654.D

Acq: 6 May 2019 10:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 43 Resp: 1960319

Ion Ratio Lower Upper

43 100

86 7.5 6.0 9.0

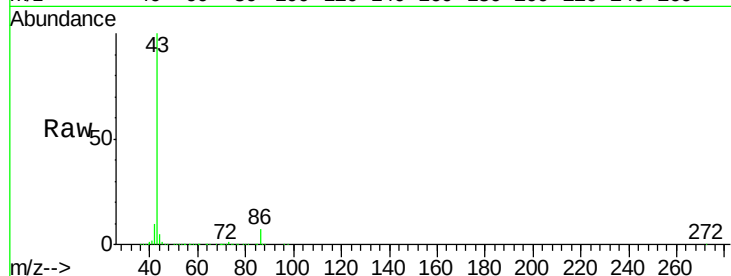
42 10.0 8.0 12.0

44 4.9 3.9 5.9

Manual Integrations
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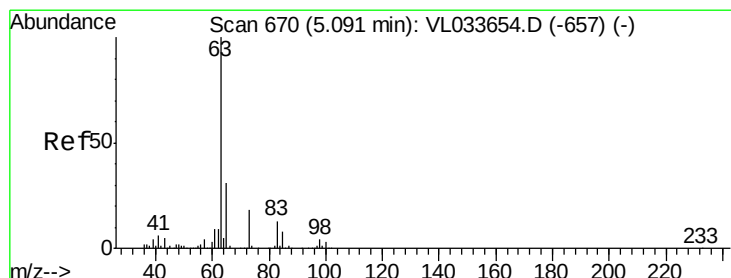
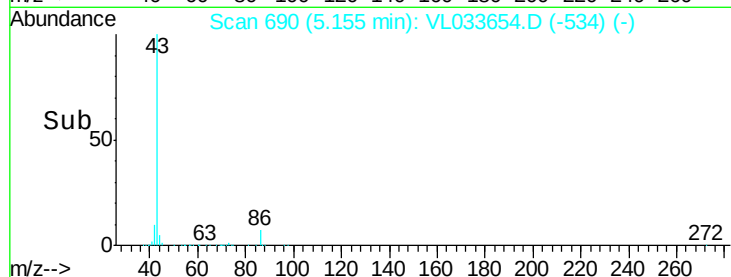
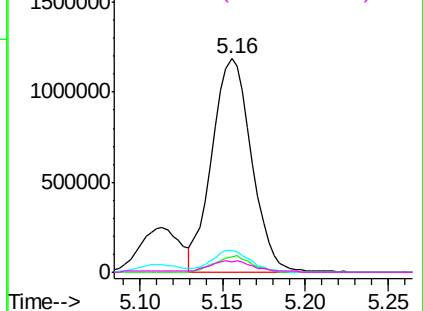


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.684 ppbv

RT: 5.09 min Scan# 670

Delta R.T. 0.00 min

Lab File: VL033654.D

Acq: 6 May 2019 10:59

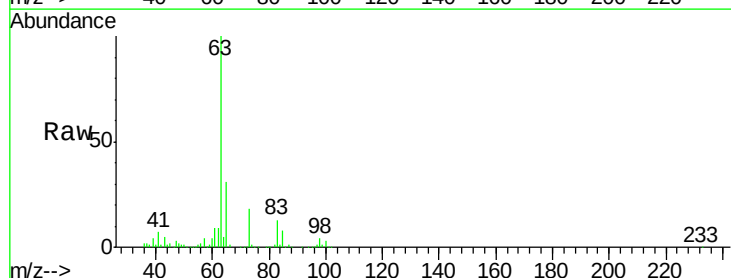
Tgt Ion: 63 Resp: 1365981

Ion Ratio Lower Upper

63 100

98 4.1 2.1 6.2

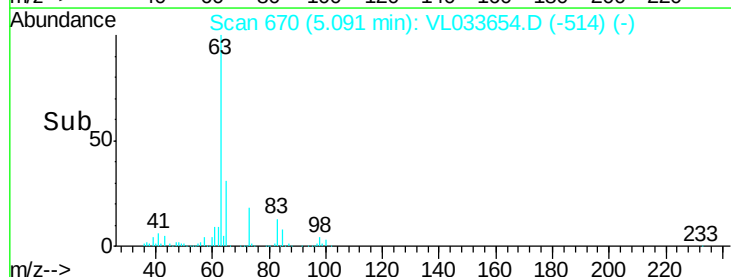
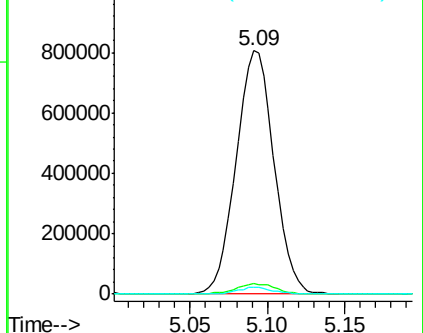
100 2.9 1.5 4.4

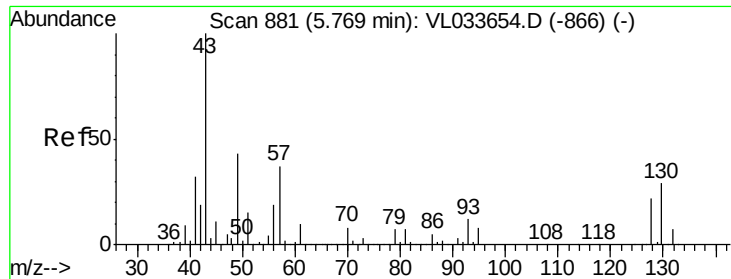


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





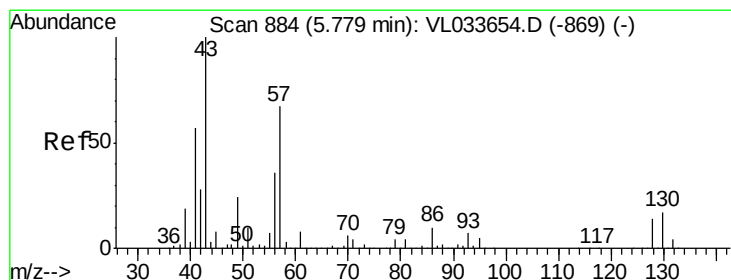
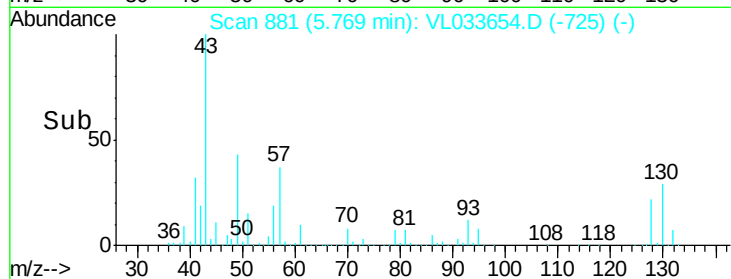
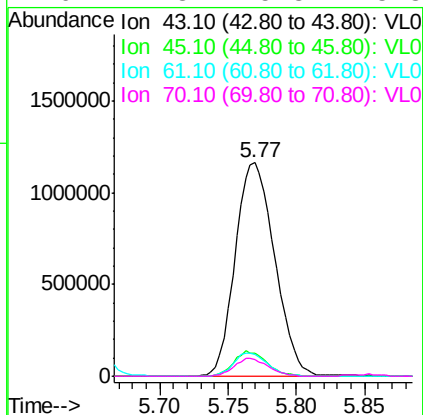
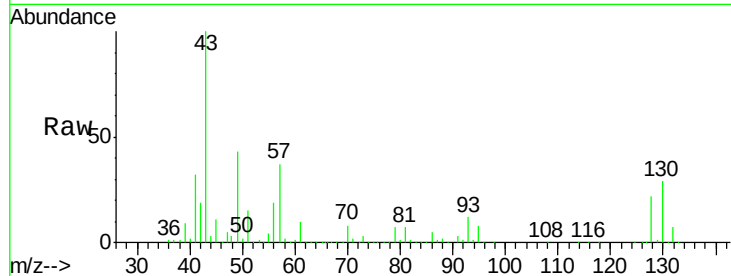
#25
Ethyl Acetate
Concen: 9.712 ppbv
RT: 5.77 min Scan# 881
Delta R.T. 0.00 min
Lab File: VL033654.D
Acq: 6 May 2019 10:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion:	43	Resp:	2337431
Ion	Ratio	Lower	Upper
43	100		
45	10.0	8.0	12.0
61	9.4	7.5	11.3
70	7.3	5.8	8.8

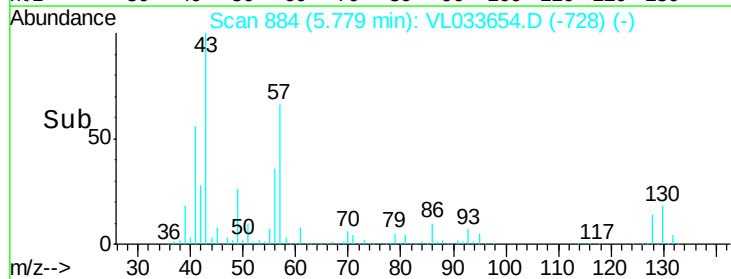
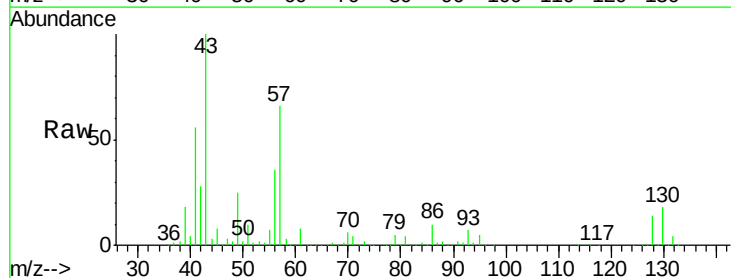
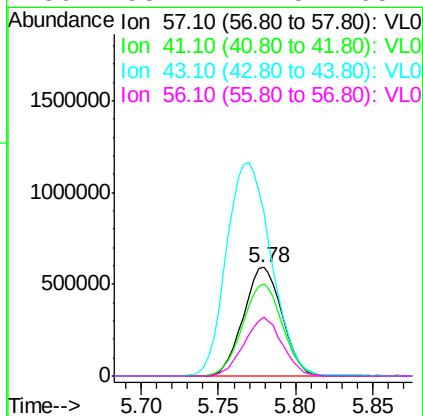
Manual Integrations
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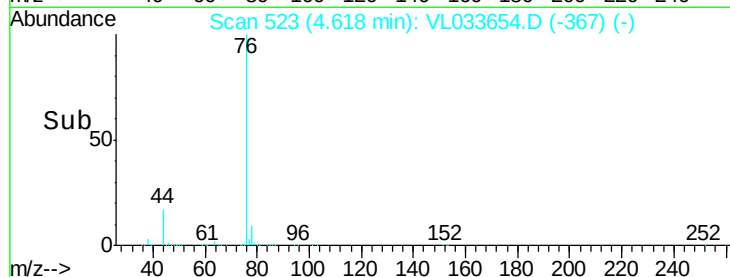
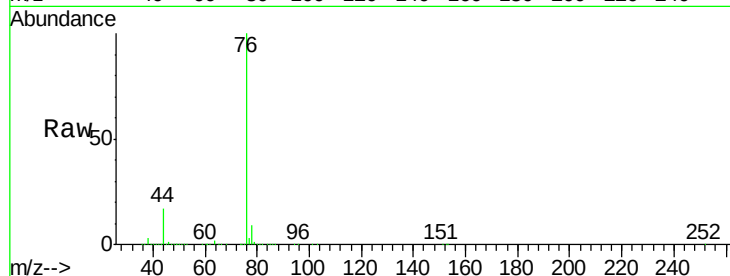
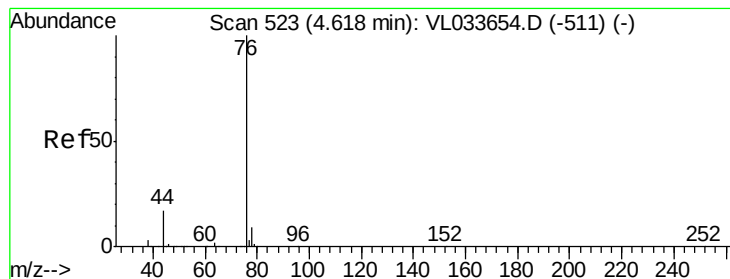
MMDadoda
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#26
Hexane
Concen: 10.142 ppbv
RT: 5.78 min Scan# 884
Delta R.T. 0.00 min
Lab File: VL033654.D
Acq: 6 May 2019 10:59

Tgt Ion:	57	Resp:	1032682
Ion	Ratio	Lower	Upper
57	100		
41	87.1	69.7	104.5
43	227.4	181.9	272.9
56	53.1	42.5	63.7





#27

Carbon Disulfide

Concen: 11.839 ppbv

RT: 4.62 min Scan# 523

Delta R.T. 0.00 min

Lab File: VL033654.D

Acq: 6 May 2019 10:59

Tot Ion: 76 Resp: 1497054

Ion Ratio Lower Upper

76 100

44 18.0 14.4 21.6

78 9.3 7.4 11.2

Instrument :

MSVOA_L

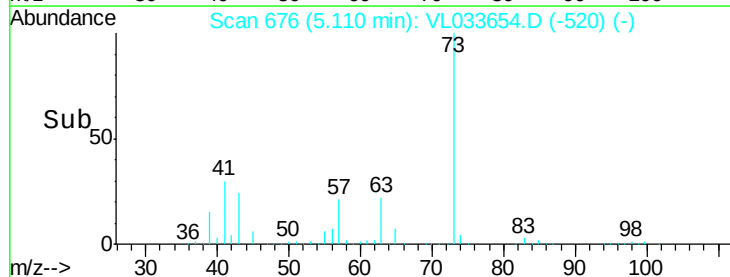
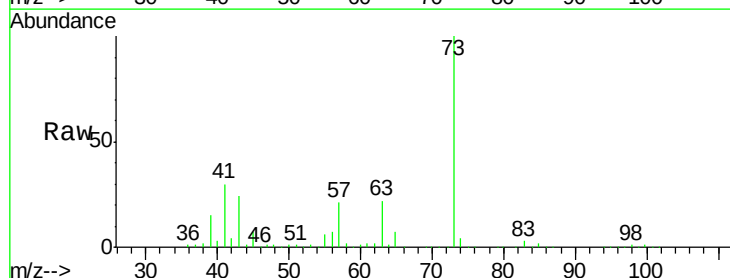
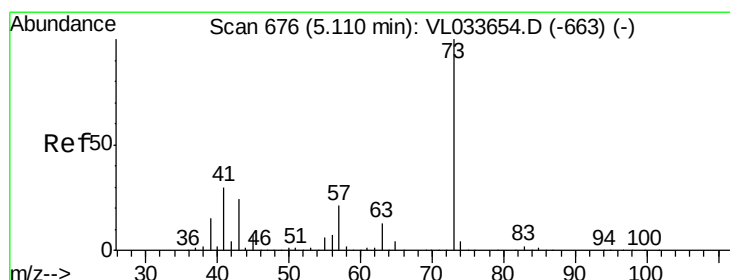
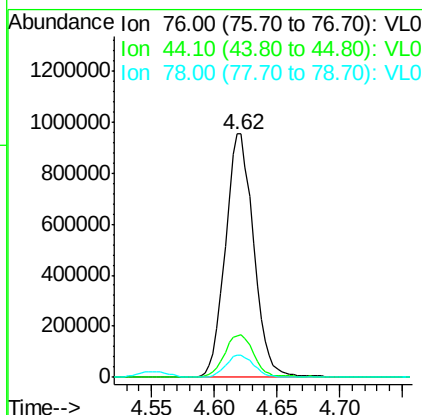
ClientSampleId :

VSTDICCC010

Manual Integrations
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#28

Methyl tert-Butyl Ether

Concen: 10.341 ppbv

RT: 5.11 min Scan# 676

Delta R.T. 0.00 min

Lab File: VL033654.D

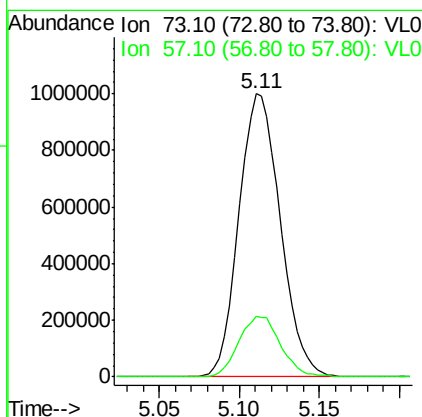
Acq: 6 May 2019 10:59

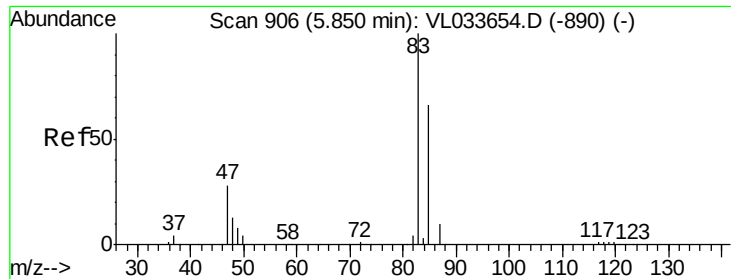
Tgt Ion: 73 Resp: 1769182

Ion Ratio Lower Upper

73 100

57 21.7 17.4 26.0





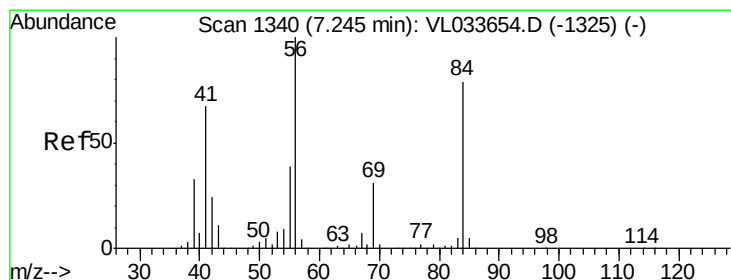
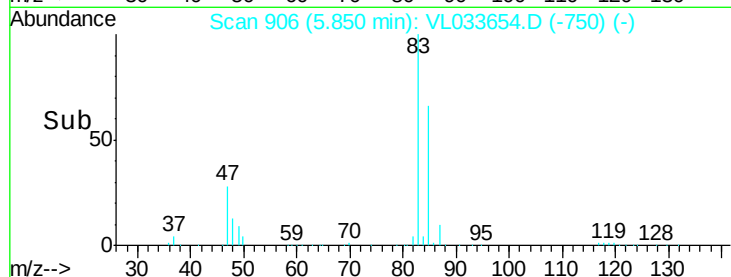
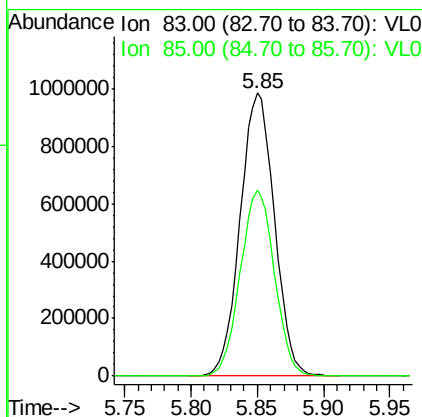
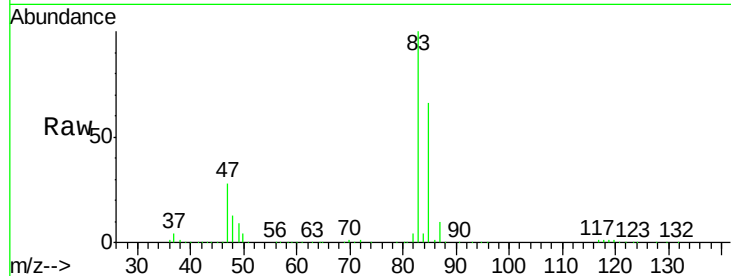
#29
Chloroform
Concen: 9.519 ppbv
RT: 5.85 min Scan# 906
Delta R.T. 0.00 min
Lab File: VL033654.D
Acq: 6 May 2019 10:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 83 Resp: 1772746
Ion Ratio Lower Upper
83 100
85 65.7 52.6 78.8

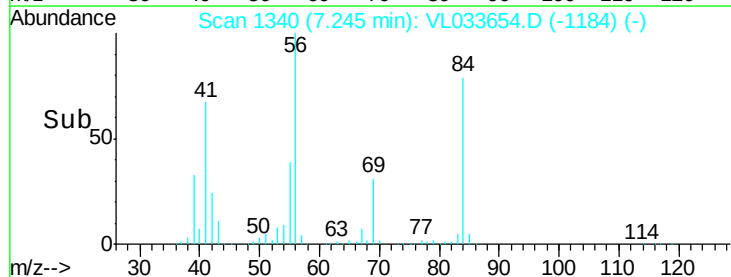
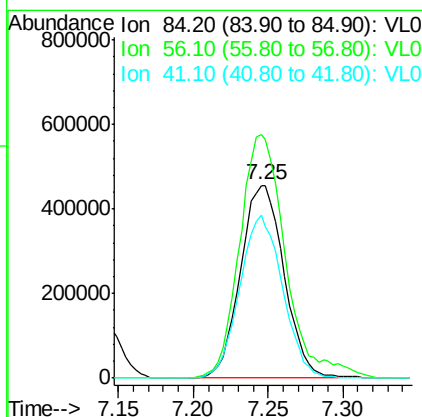
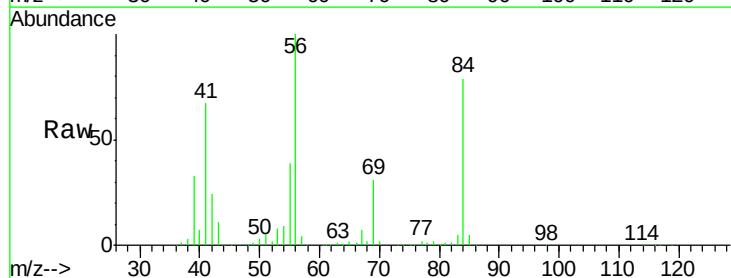
Manual Integrations
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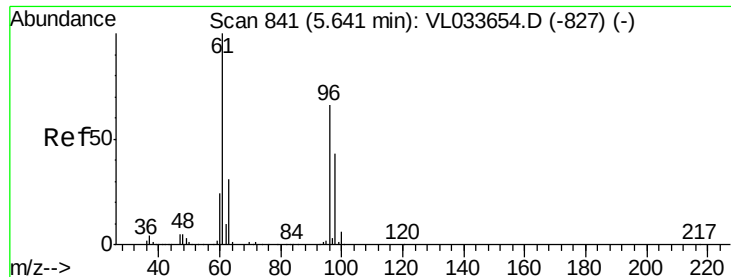
MMDadoda
5/8/2019 12:05:47 PM



#30
Cyclohexane
Concen: 10.699 ppbv
RT: 7.25 min Scan# 1340
Delta R.T. 0.00 min
Lab File: VL033654.D
Acq: 6 May 2019 10:59

Tgt Ion: 84 Resp: 923609
Ion Ratio Lower Upper
84 100
56 133.7 107.0 160.4
41 83.2 66.6 99.8





#31

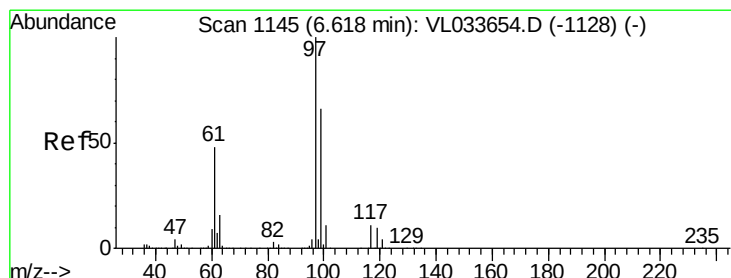
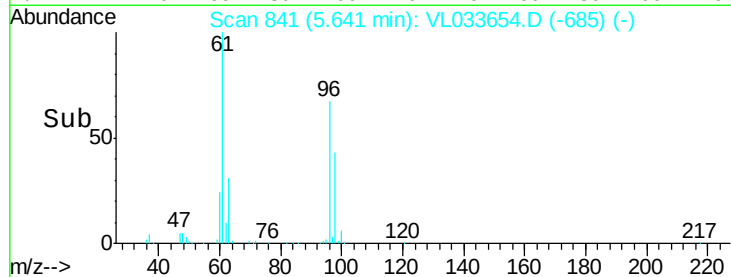
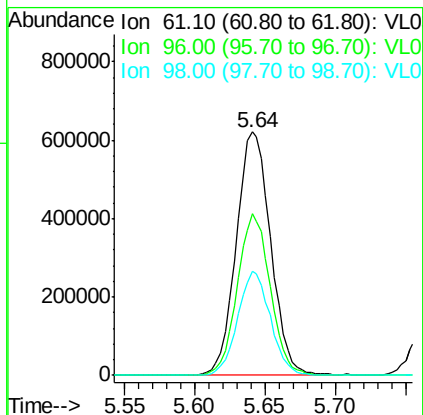
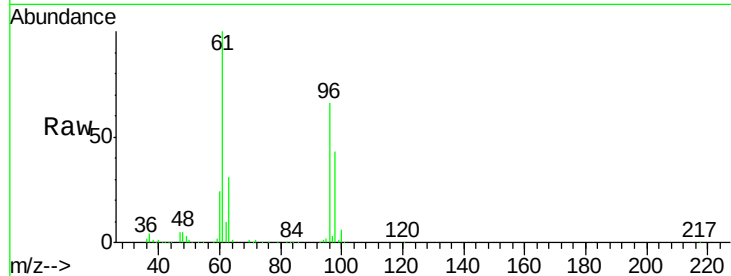
cis-1,2-Dichloroethene
Concen: 10.368 ppbv
RT: 5.64 min Scan# 841
Delta R.T. 0.00 min
Lab File: VL033654.D
Acq: 6 May 2019 10:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
61	100		
96	66.5	53.2	79.8
98	42.8	34.2	51.4

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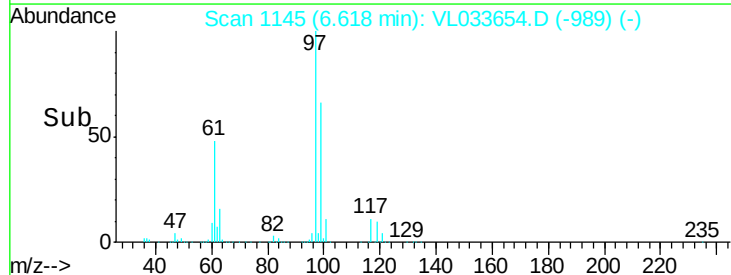
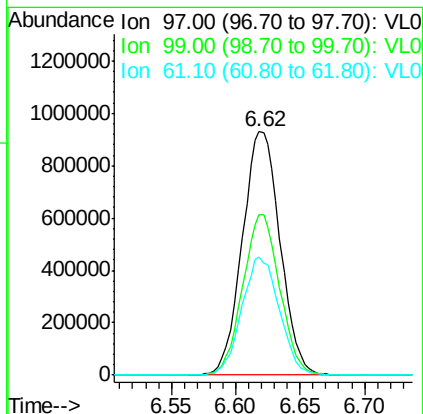
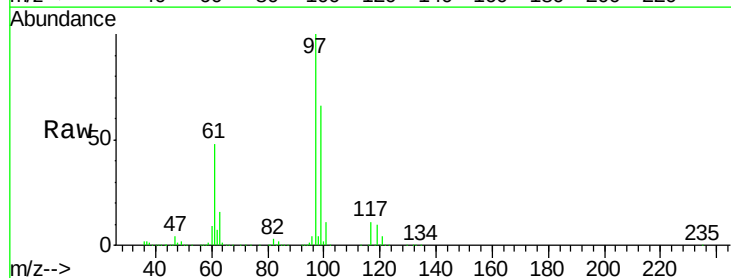
MMDadoda
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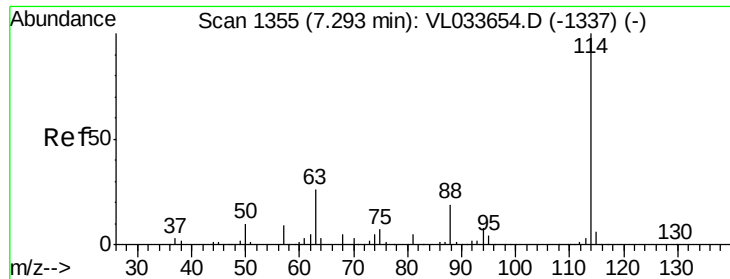


#32

1,1,1-Trichloroethane
Concen: 9.727 ppbv
RT: 6.62 min Scan# 1145
Delta R.T. 0.00 min
Lab File: VL033654.D
Acq: 6 May 2019 10:59

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.5	77.3
61	48.1	38.5	57.7





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1355

Delta R.T. 0.00 min

Lab File: VL033654.D

Acq: 6 May 2019 10:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:114 Resp: 2508739

Ion Ratio Lower Upper

114 100

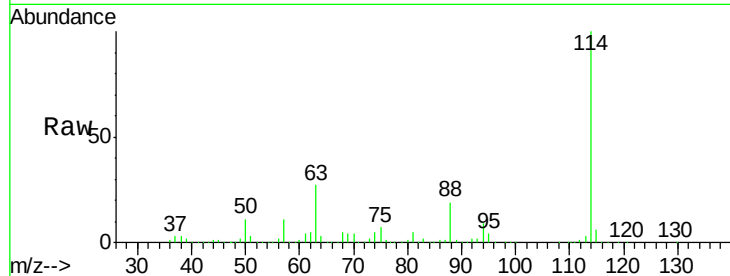
63 26.6 21.2 31.8

88 18.0 14.4 21.6

Manual Integrations
APPROVED

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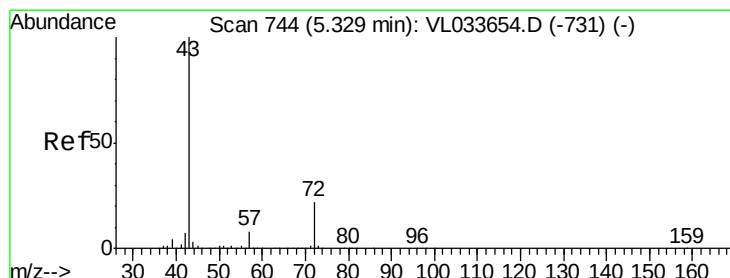
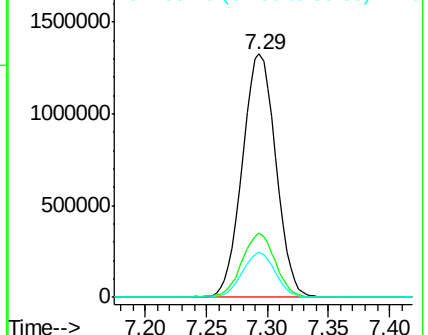
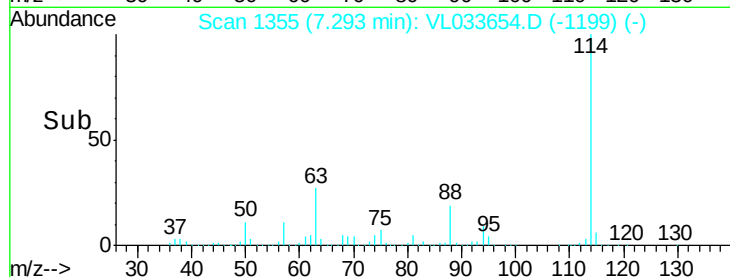
5/8/2019 12:05:47 PM



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 9.968 ppbv

RT: 5.33 min Scan# 744

Delta R.T. 0.00 min

Lab File: VL033654.D

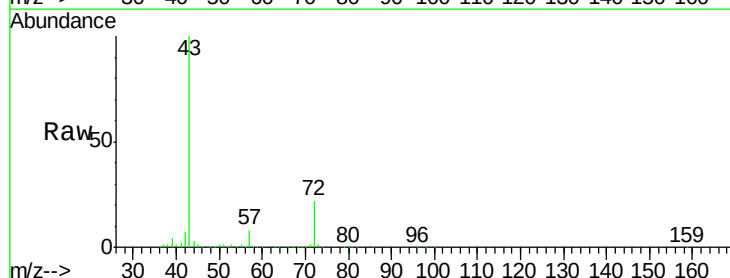
Acq: 6 May 2019 10:59

Tgt Ion: 43 Resp: 1546914

Ion Ratio Lower Upper

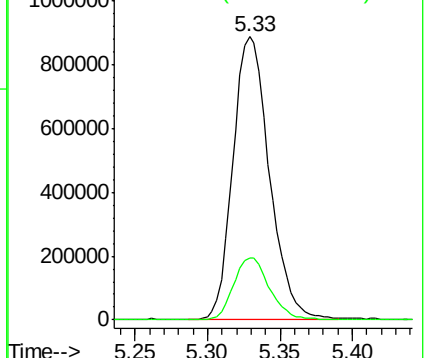
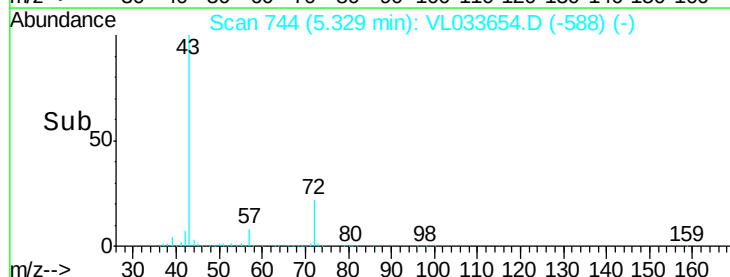
43 100

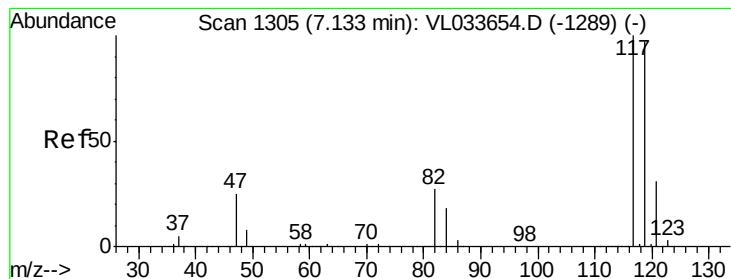
72 21.9 17.4 26.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 10.180 ppbv

RT: 7.13 min Scan# 1305

Delta R.T. 0.00 min

Lab File: VL033654.D

Acq: 6 May 2019 10:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:117 Resp: 2049786

Ion Ratio Lower Upper

117 100

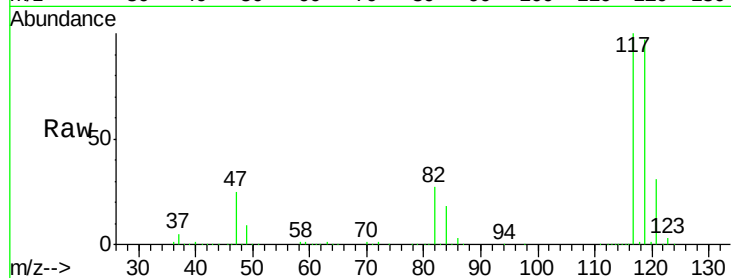
119 97.4 77.9 116.9

121 31.3 25.0 37.6

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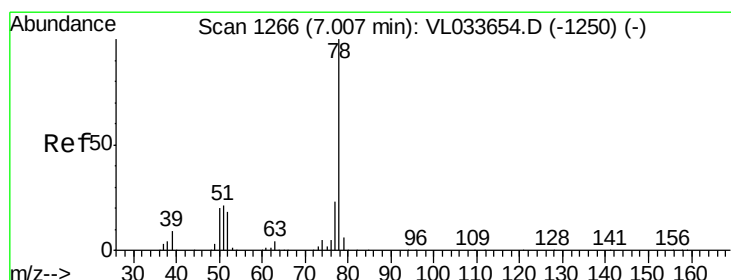
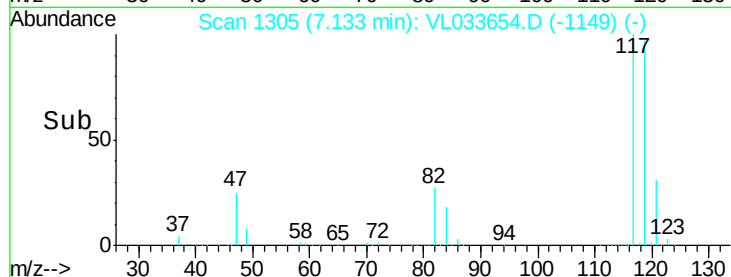
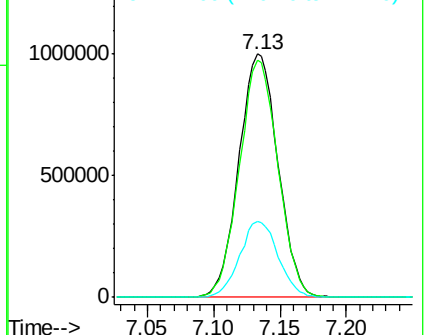
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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 10.380 ppbv

RT: 7.01 min Scan# 1266

Delta R.T. 0.00 min

Lab File: VL033654.D

Acq: 6 May 2019 10:59

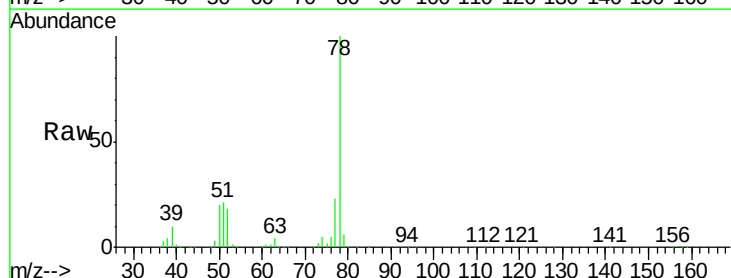
Tgt Ion: 78 Resp: 2254828

Ion Ratio Lower Upper

78 100

77 22.7 18.2 27.2

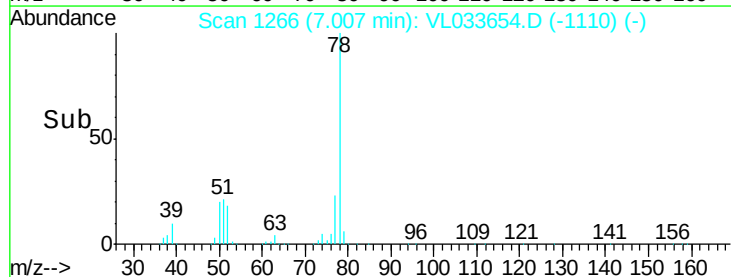
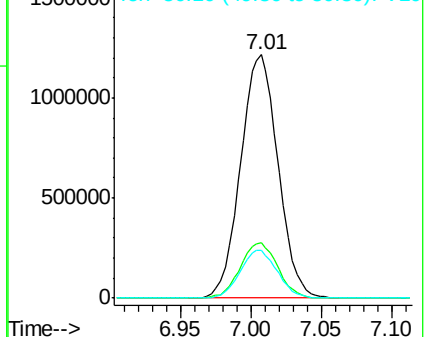
50 19.7 15.8 23.6

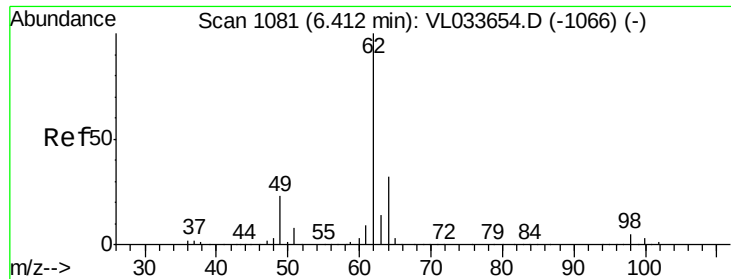


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





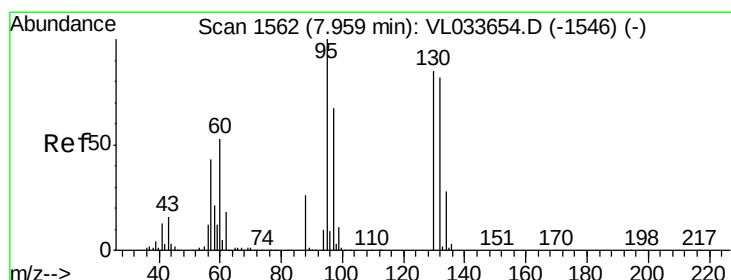
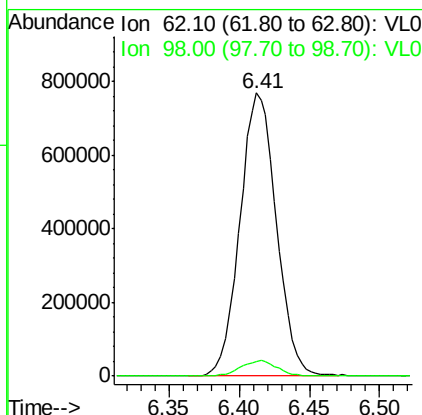
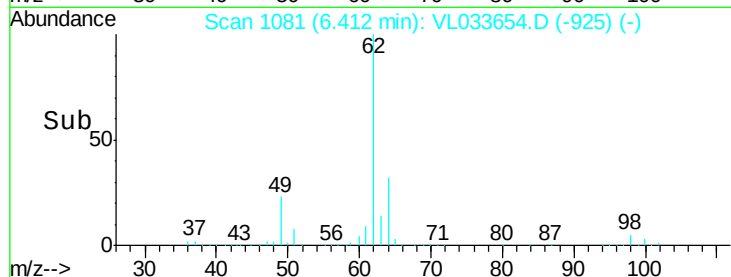
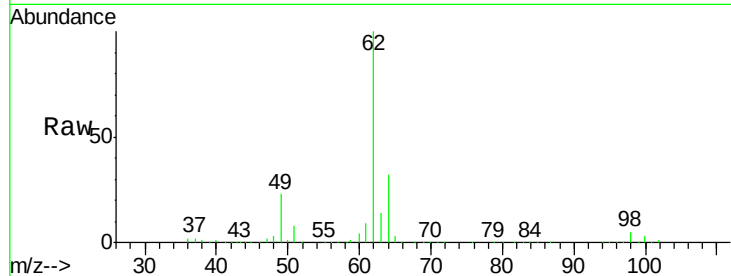
#37
 1,2-Dichloroethane
 Concen: 9.658 ppbv
 RT: 6.41 min Scan# 1081
 Delta R.T. 0.00 min
 Lab File: VL033654.D
 Acq: 6 May 2019 10:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion: 62 Resp: 1392619
 Ion Ratio Lower Upper
 62 100
 98 5.6 4.5 6.7

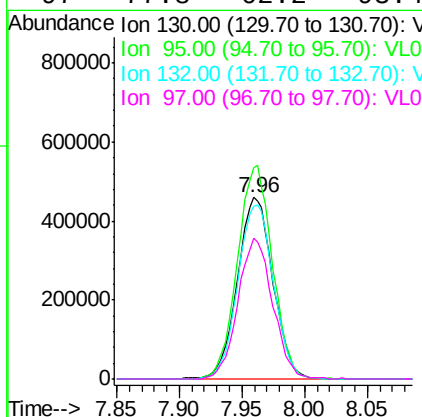
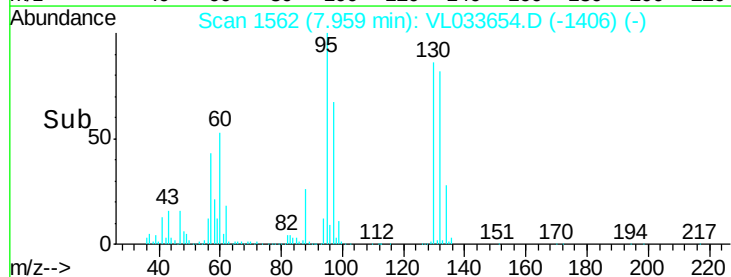
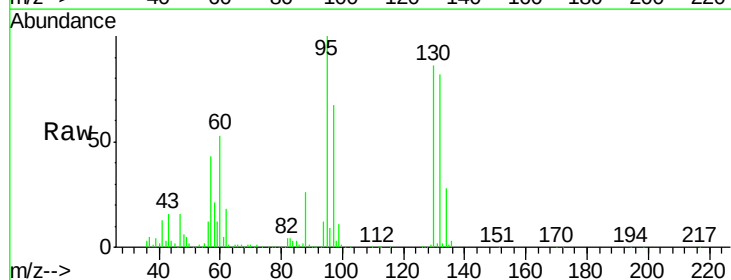
Manual Integrations
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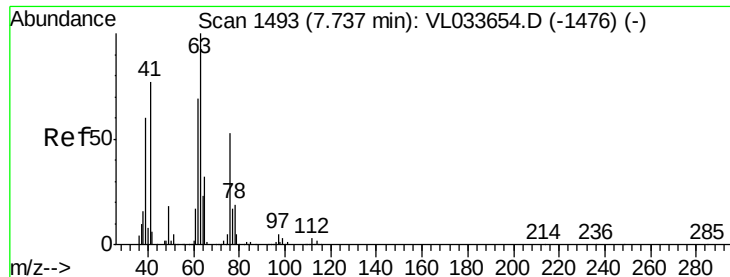
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#38
 Trichloroethene
 Concen: 10.458 ppbv
 RT: 7.96 min Scan# 1562
 Delta R.T. 0.00 min
 Lab File: VL033654.D
 Acq: 6 May 2019 10:59

Tgt Ion:130 Resp: 902480
 Ion Ratio Lower Upper
 130 100
 95 116.7 93.4 140.0
 132 95.3 76.2 114.4
 97 77.8 62.2 93.4





#39

1,2-Dichloropropane

Concen: 10.230 ppbv

RT: 7.74 min Scan# 1493

Delta R.T. 0.00 min

Lab File: VL033654.D

Acq: 6 May 2019 10:59

Instrument :

MSVOA_L

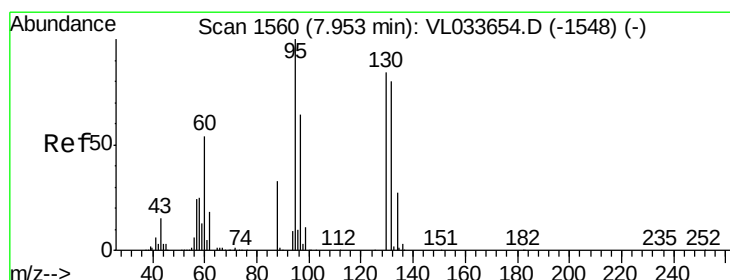
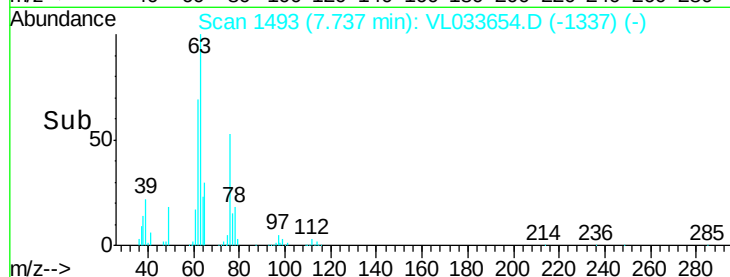
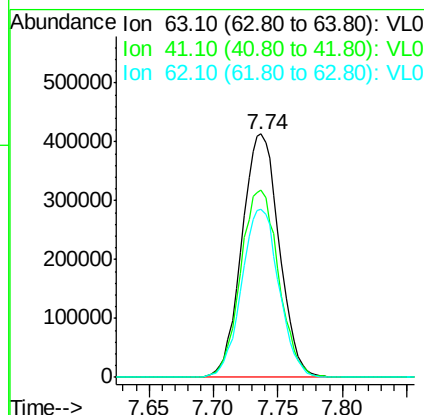
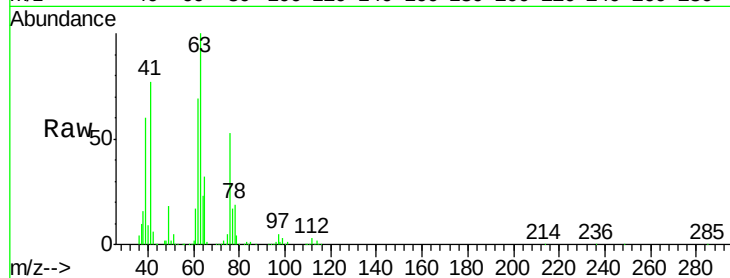
ClientSampleId :

VSTDICCC010

Tot Ion:	63	Resp:	833013
Ion	Ratio	Lower	Upper
63	100		
41	77.0	61.6	92.4
62	68.8	55.0	82.6

Manual Integrations
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#40

1,4-Dioxane

Concen: 10.201 ppbv

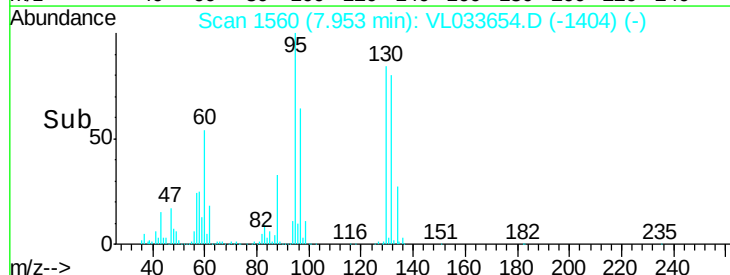
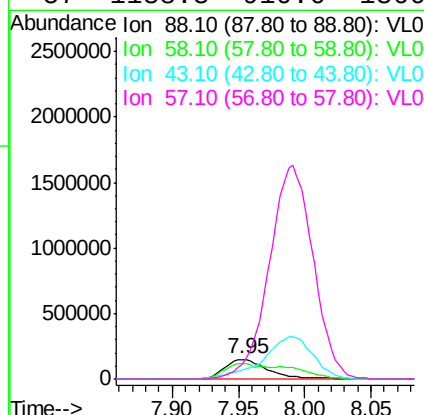
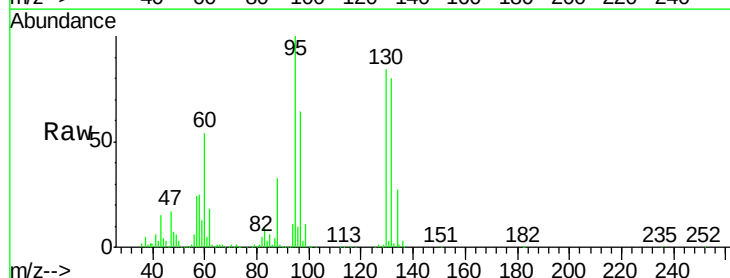
RT: 7.95 min Scan# 1560

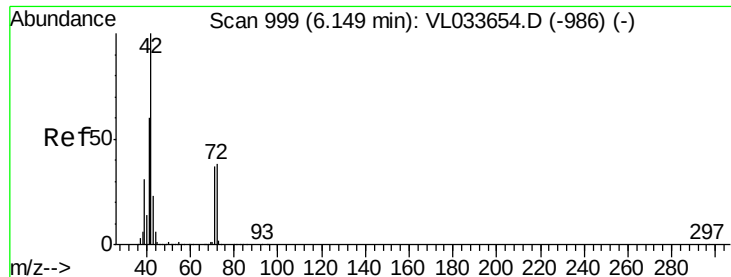
Delta R.T. 0.00 min

Lab File: VL033654.D

Acq: 6 May 2019 10:59

Tgt Ion:	88	Resp:	333534
Ion	Ratio	Lower	Upper
88	100		
58	127.9	102.3	153.5
43	257.6	206.1	309.1
57	1138.3	910.6	1366.0





#41

Tetrahydrofuran

Concen: 10.515 ppbv

RT: 6.15 min Scan# 999

Delta R.T. 0.00 min

Lab File: VL033654.D

Acq: 6 May 2019 10:59

Instrument :

MSVOA_L

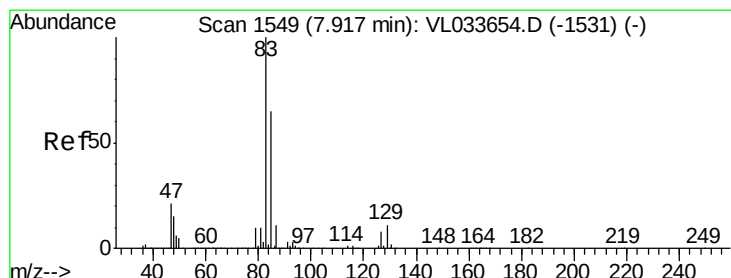
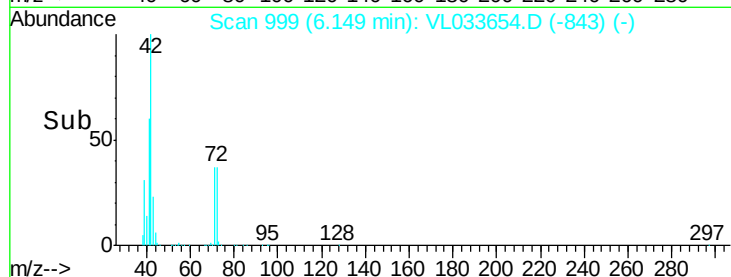
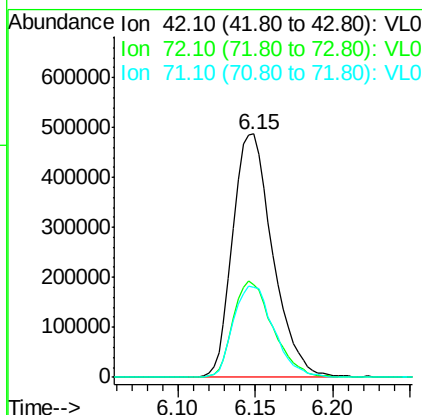
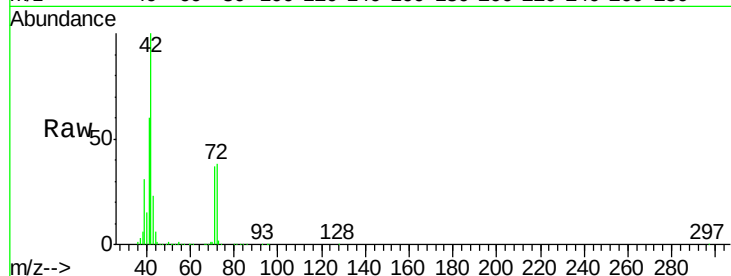
ClientSampleId :

VSTDICCC010

Tot Ion	Ratio	Lower	Upper
42	100		
72	39.5	31.6	47.4
71	38.3	30.6	45.8

Manual Integrations
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#42

Bromodichloromethane

Concen: 10.366 ppbv

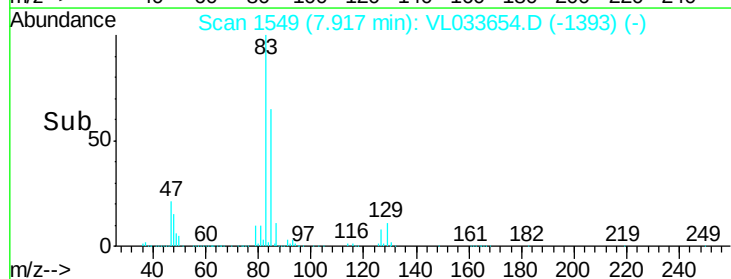
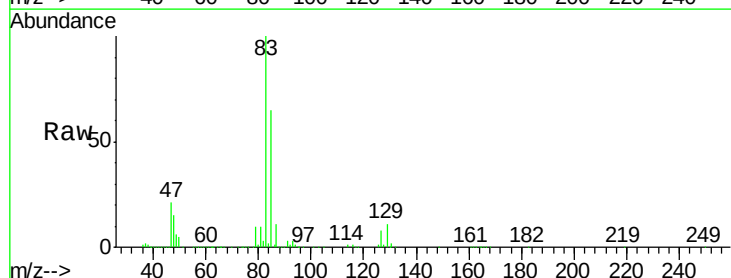
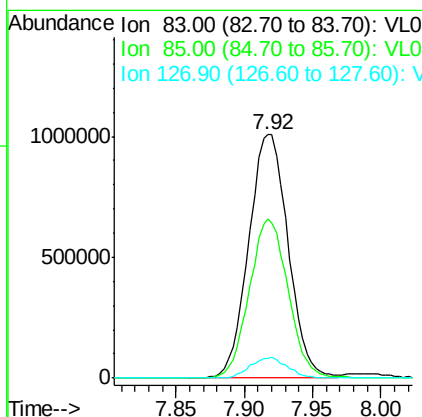
RT: 7.92 min Scan# 1549

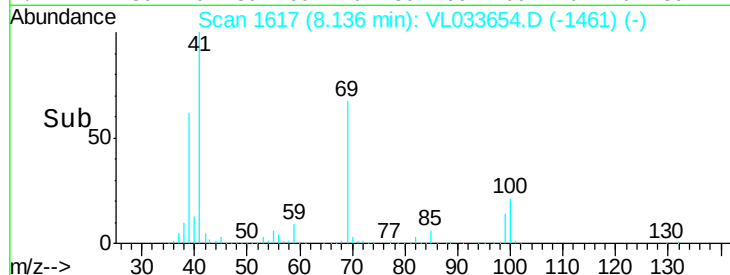
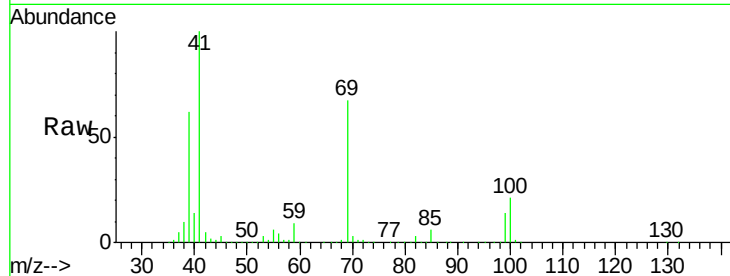
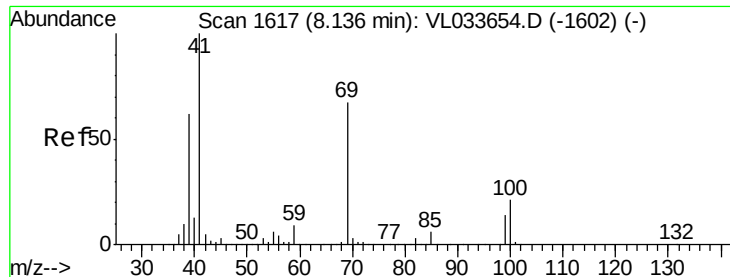
Delta R.T. 0.00 min

Lab File: VL033654.D

Acq: 6 May 2019 10:59

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.5	52.4	78.6
127	8.2	6.6	9.8





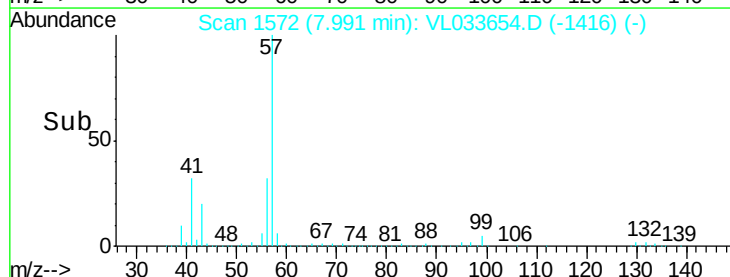
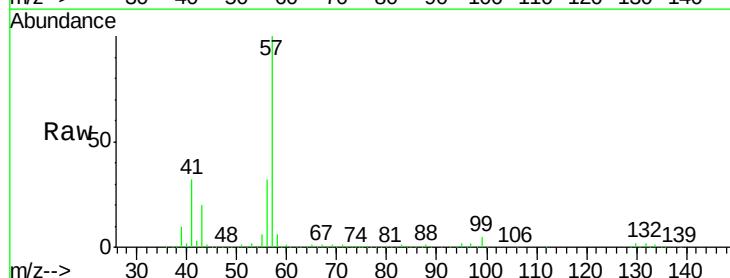
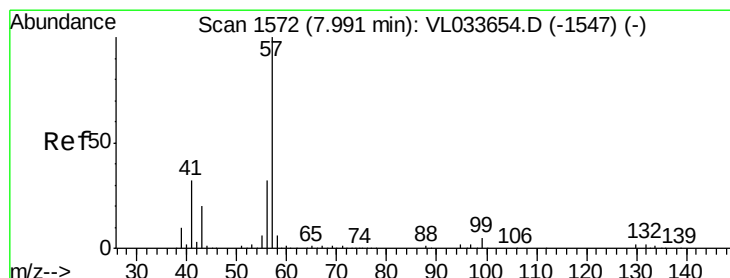
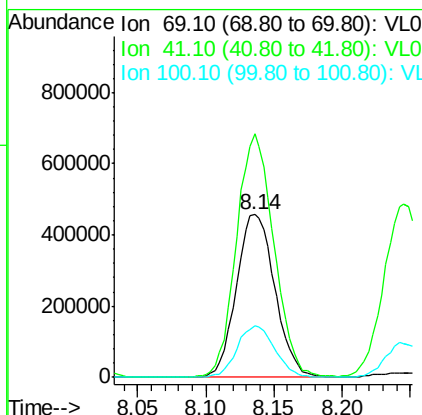
#43
Methyl Methacrylate
Concen: 10.937 ppbv
RT: 8.14 min Scan# 1617
Delta R.T. 0.00 min
Lab File: VL033654.D
Acq: 6 May 2019 10:59

Tot Ion	Ratio	Lower	Upper
69	100		
41	145.8	116.5	174.7
100	30.8	24.6	37.0

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

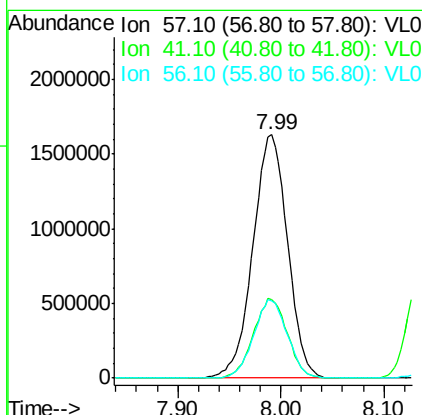
Manual Integrations
APPROVED

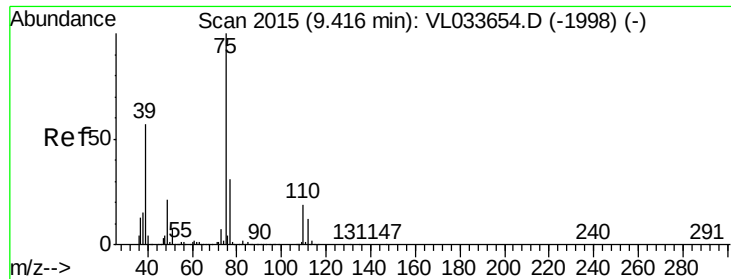
MMDadoda
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#44
2,2,4-Trimethylpentane
Concen: 10.051 ppbv
RT: 7.99 min Scan# 1572
Delta R.T. 0.00 min
Lab File: VL033654.D
Acq: 6 May 2019 10:59

Tgt Ion	Ratio	Lower	Upper
57	100		
41	32.1	25.7	38.5
56	31.3	25.0	37.6





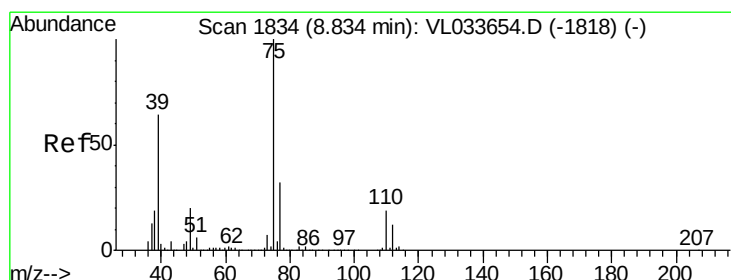
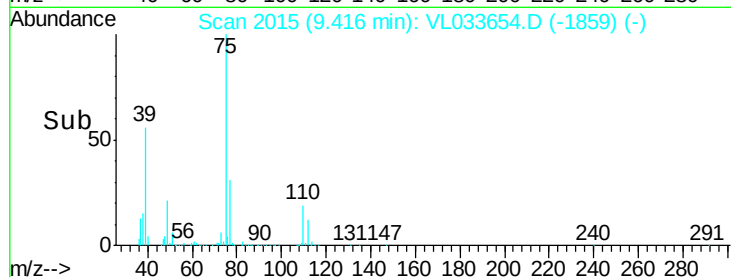
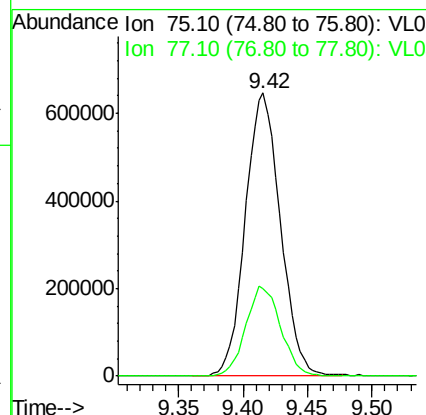
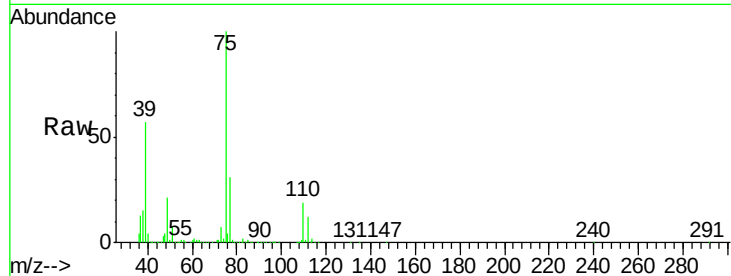
#45
 t-1,3-Dichloropropene
 Concen: 11.582 ppbv
 RT: 9.42 min Scan# 2015
 Delta R.T. 0.00 min
 Lab File: VL033654.D
 Acq: 6 May 2019 10:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion: 75 Resp: 1224160
 Ion Ratio Lower Upper
 75 100
 77 30.9 24.7 37.1

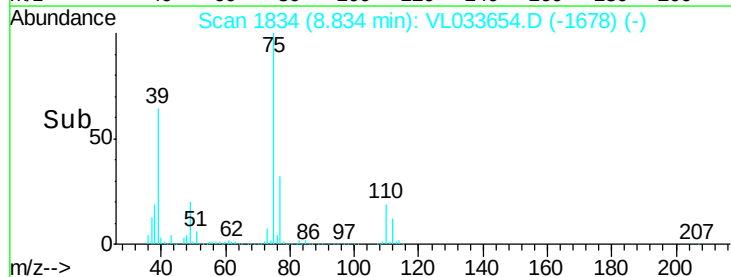
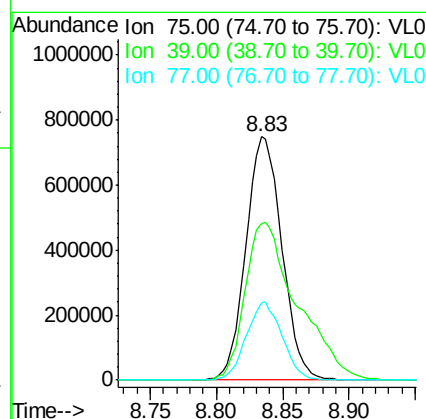
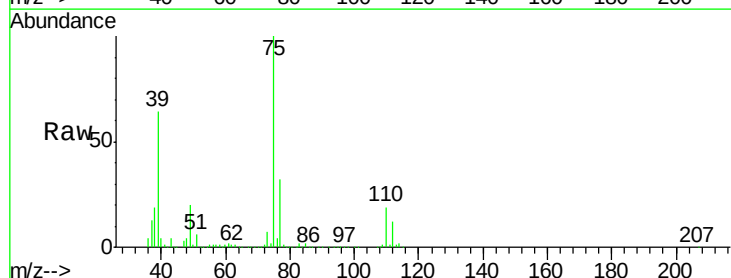
Manual Integrations
 APPROVED

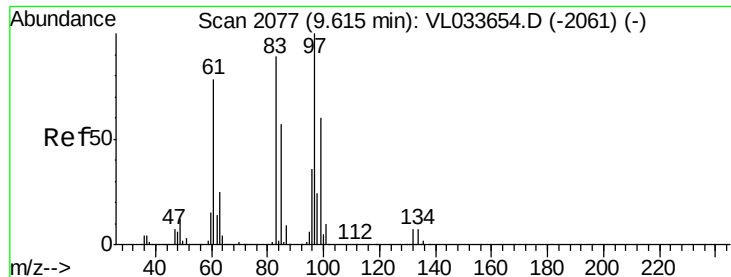
MMDadoda
 5/8/2019 12:05:47 PM



#46
 cis-1,3-Dichloropropene
 Concen: 11.576 ppbv
 RT: 8.83 min Scan# 1834
 Delta R.T. 0.00 min
 Lab File: VL033654.D
 Acq: 6 May 2019 10:59

Tgt Ion: 75 Resp: 1416038
 Ion Ratio Lower Upper
 75 100
 39 64.4 51.5 77.3
 77 31.7 25.4 38.0





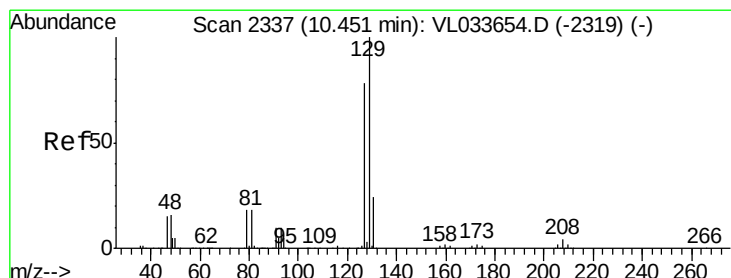
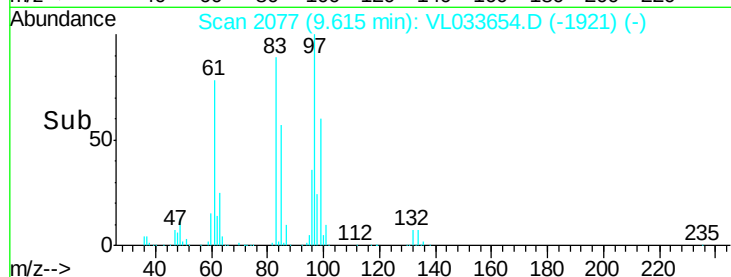
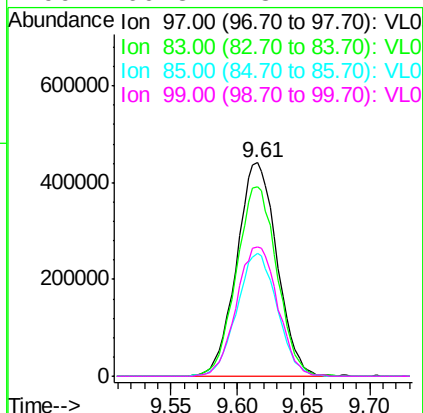
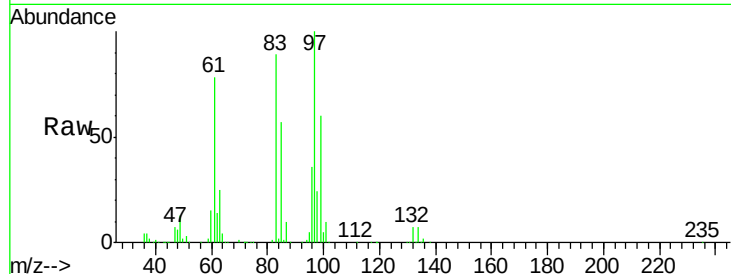
#47
 1,1,2-Trichloroethane
 Concen: 9.674 ppbv
 RT: 9.61 min Scan# 2077
 Delta R.T. 0.00 min
 Lab File: VL033654.D
 Acq: 6 May 2019 10:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion:	97	Resp:	931387
Ion	Ratio	Lower	Upper
97	100		
83	88.6	70.9	106.3
85	57.2	45.8	68.6
99	60.3	48.2	72.4

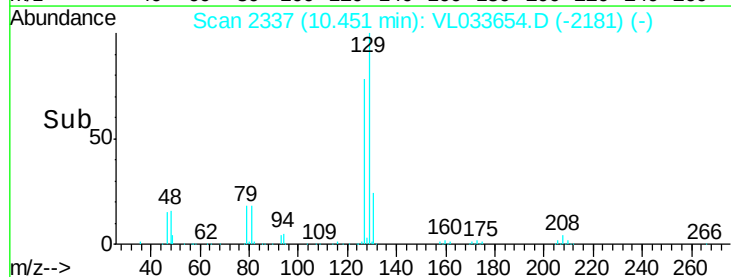
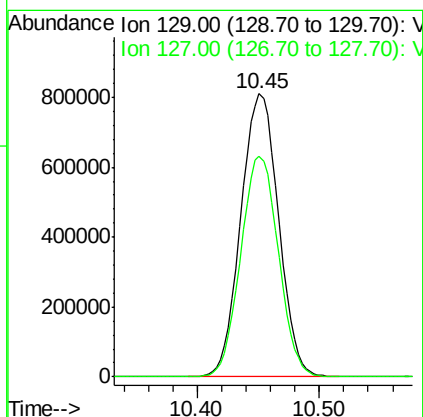
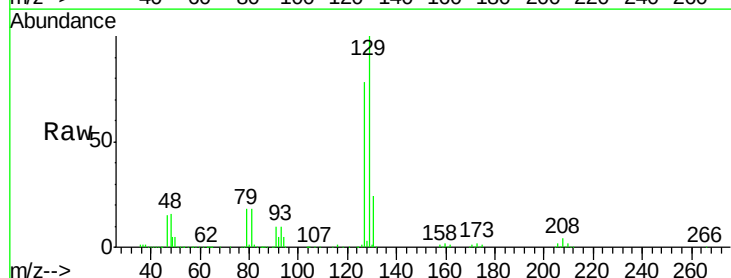
Manual Integrations
 APPROVED

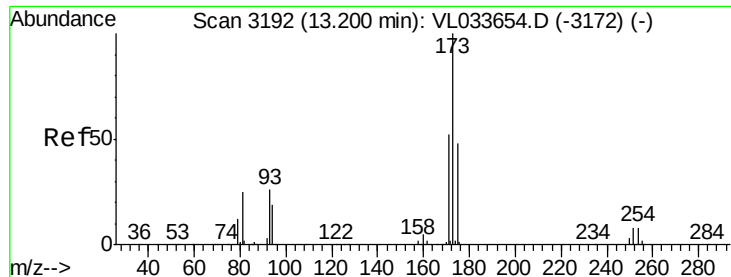
MMDadoda
 5/8/2019 12:05:47 PM



#48
 Dibromochloromethane
 Concen: 10.713 ppbv
 RT: 10.45 min Scan# 2337
 Delta R.T. 0.00 min
 Lab File: VL033654.D
 Acq: 6 May 2019 10:59

Tgt Ion:	129	Resp:	1732356
Ion	Ratio	Lower	Upper
129	100		
127	78.1	39.1	117.2





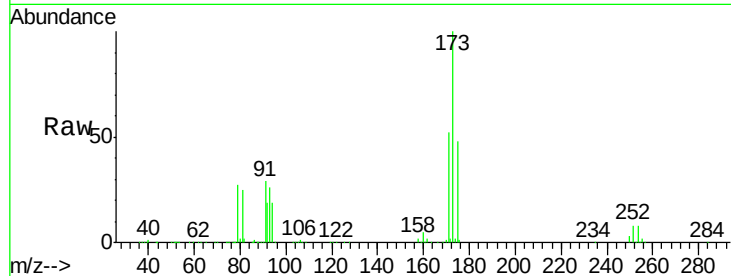
#49
Bromoform
Concen: 11.208 ppbv
RT: 13.20 min Scan# 3192
Delta R.T. 0.00 min
Lab File: VL033654.D
Acq: 6 May 2019 10:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

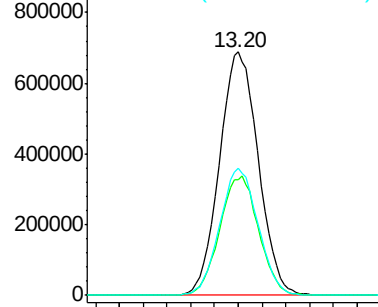
Tot Ion:173 Resp: 1554839
Ion Ratio Lower Upper
173 100
175 49.1 39.3 58.9
171 51.9 41.5 62.3

Manual Integrations
APPROVED

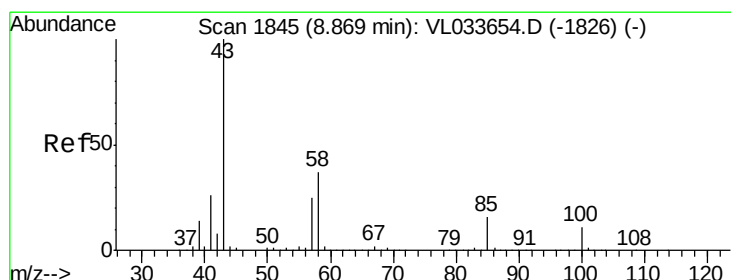
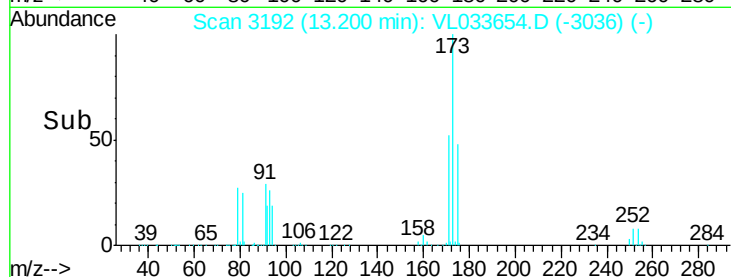
MMDadoda
5/8/2019 12:05:47 PM



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

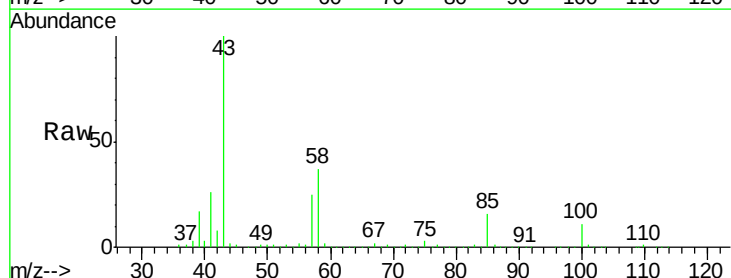


Time-->

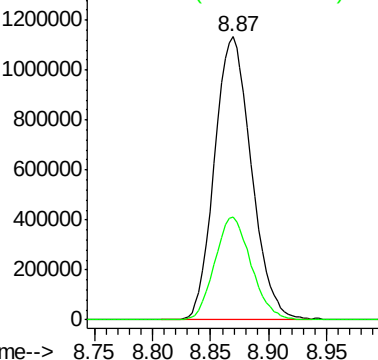


#50
4-Methyl-2-Pentanone
Concen: 10.297 ppbv
RT: 8.87 min Scan# 1845
Delta R.T. 0.00 min
Lab File: VL033654.D
Acq: 6 May 2019 10:59

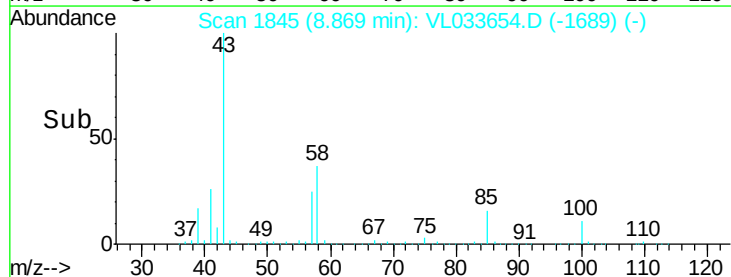
Tgt Ion: 43 Resp: 2506024
Ion Ratio Lower Upper
43 100
58 36.0 28.8 43.2

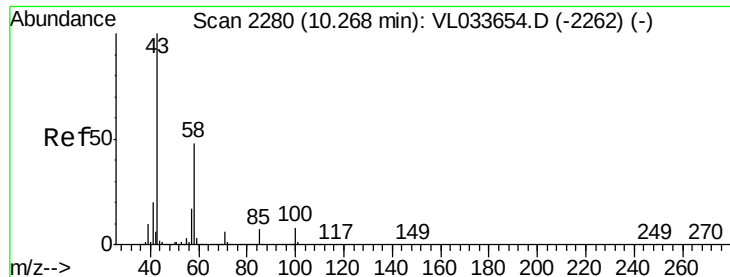


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0



Time-->





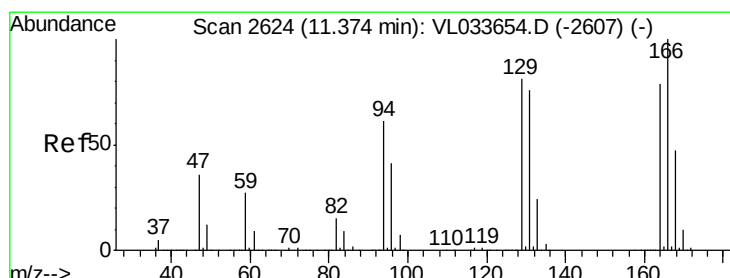
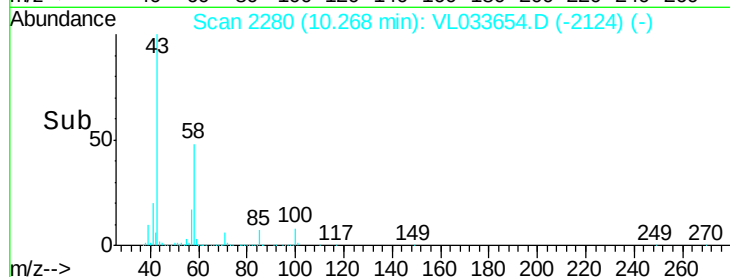
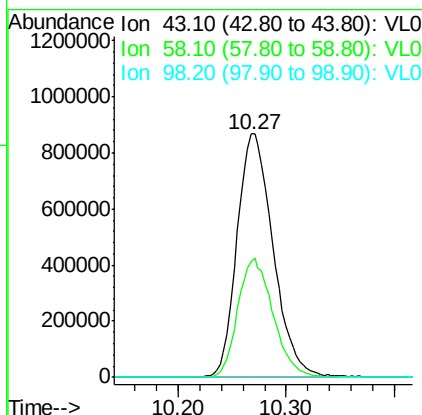
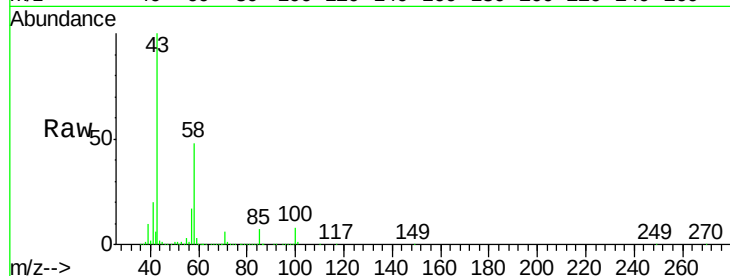
#51
2-Hexanone
Concen: 10.596 ppbv
RT: 10.27 min Scan# 2280
Delta R.T. 0.00 min
Lab File: VL033654.D
Acq: 6 May 2019 10:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
43	100		
58	47.8	38.2	57.4
98	0.3	0.2	0.4

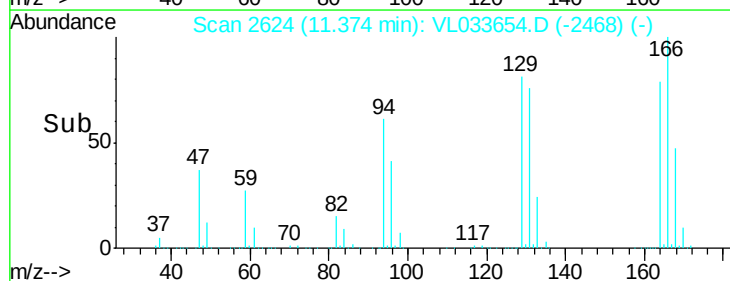
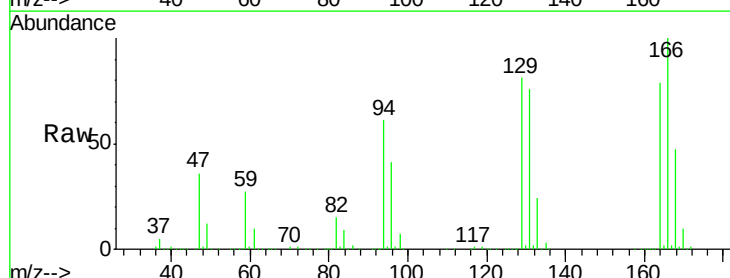
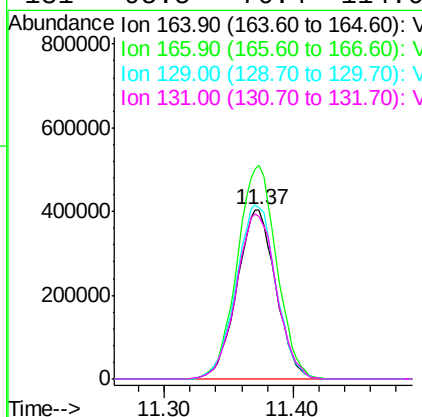
Manual Integrations
APPROVED

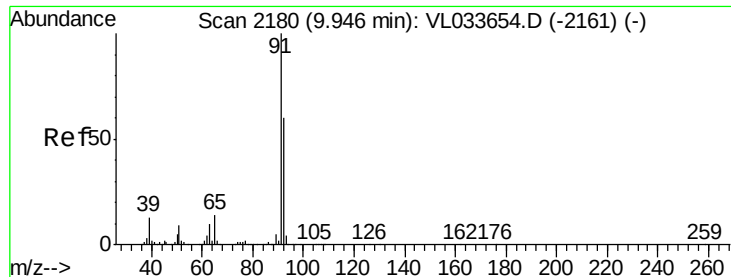
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#52
Tetrachloroethene
Concen: 10.281 ppbv
RT: 11.37 min Scan# 2624
Delta R.T. 0.00 min
Lab File: VL033654.D
Acq: 6 May 2019 10:59

Tgt Ion	Ratio	Lower	Upper
164	100		
166	125.8	100.6	151.0
129	101.3	81.0	121.6
131	95.5	76.4	114.6





#53

Toluene

Concen: 10.688 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. 0.00 min

Lab File: VL033654.D

Acq: 6 May 2019 10:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 91 Resp: 2619860

Ion Ratio Lower Upper

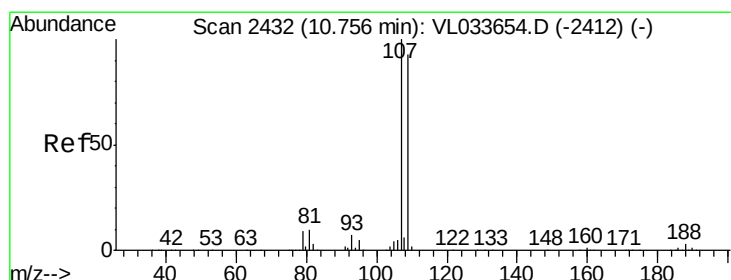
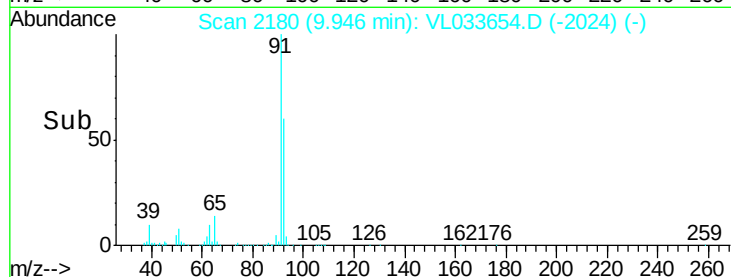
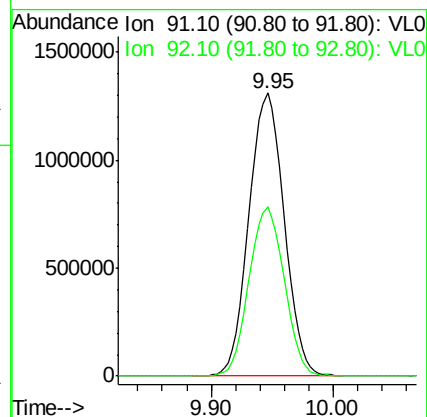
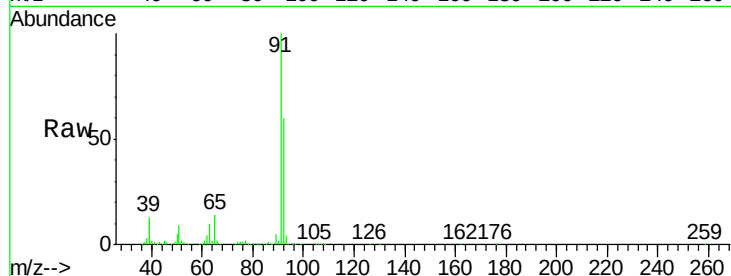
91 100

92 59.6 47.8 71.6

Manual Integrations
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#54

1,2-Dibromoethane

Concen: 10.264 ppbv

RT: 10.76 min Scan# 2432

Delta R.T. 0.00 min

Lab File: VL033654.D

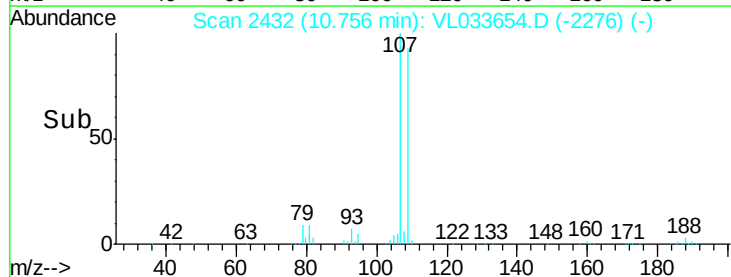
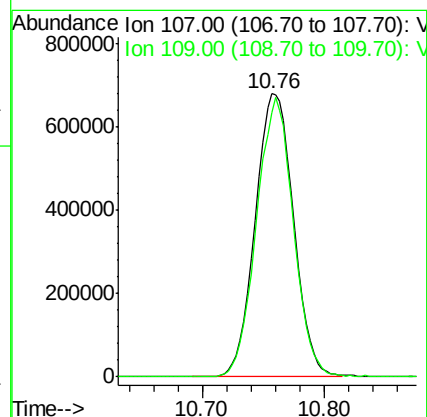
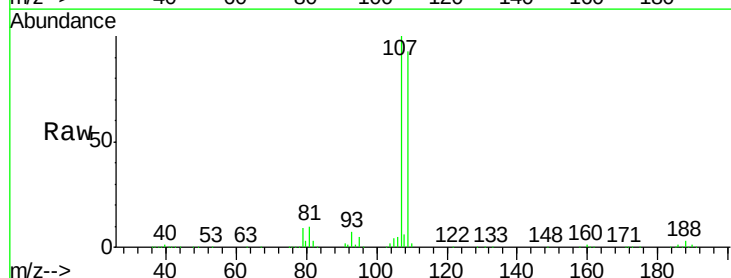
Acq: 6 May 2019 10:59

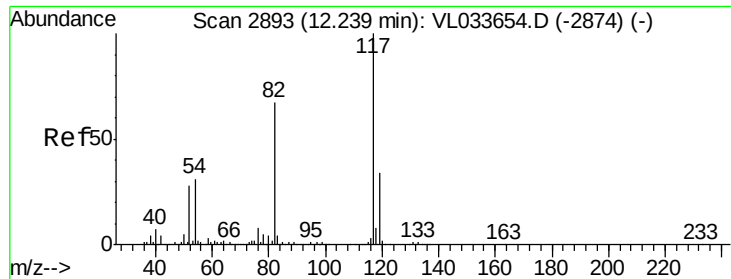
Tgt Ion: 107 Resp: 1476593

Ion Ratio Lower Upper

107 100

109 93.2 74.6 111.8





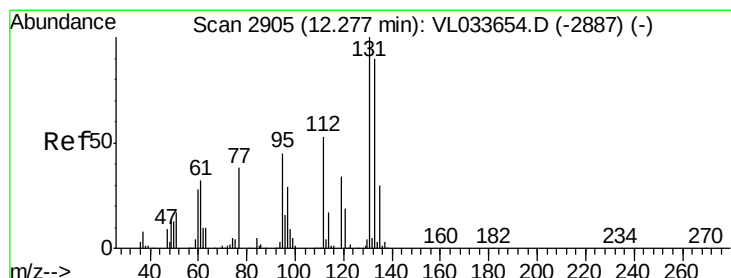
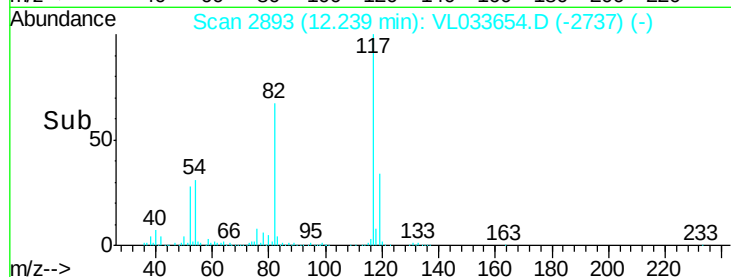
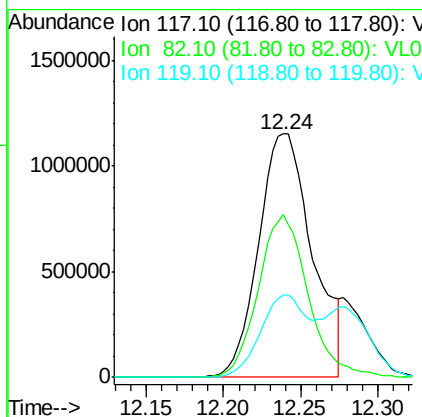
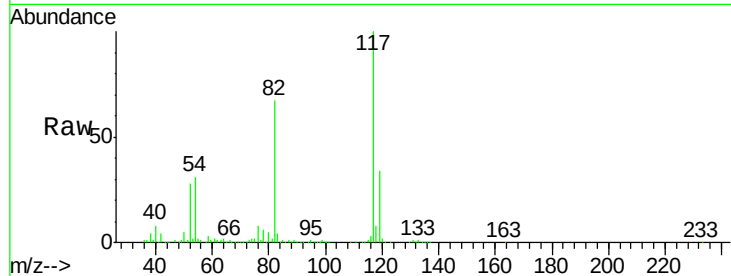
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2893
Delta R.T. 0.00 min
Lab File: VL033654.D
Acq: 6 May 2019 10:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
117	100		
82	62.1	49.7	74.5
119	31.0	23.3	34.9

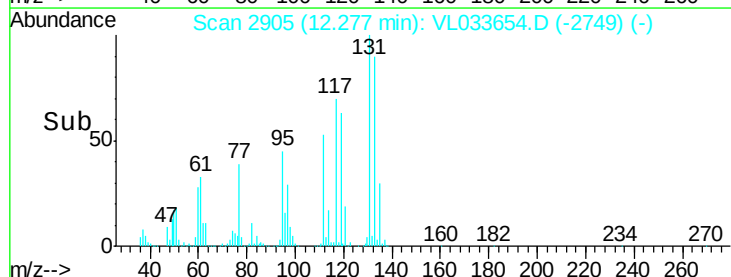
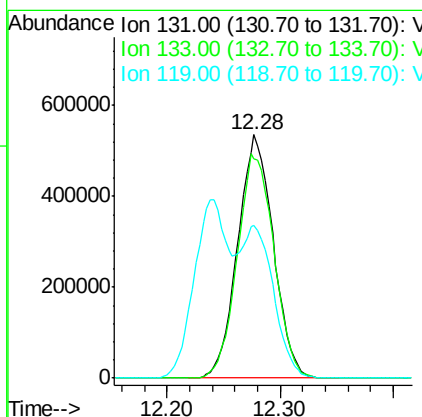
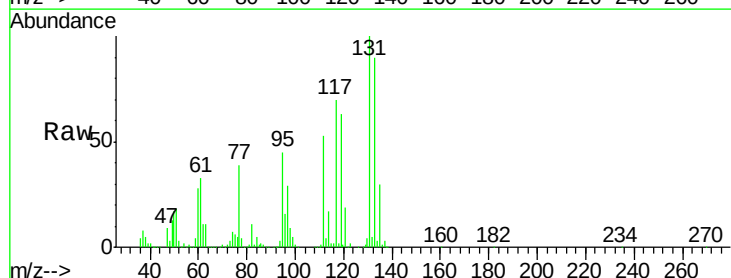
Manual Integrations
APPROVED

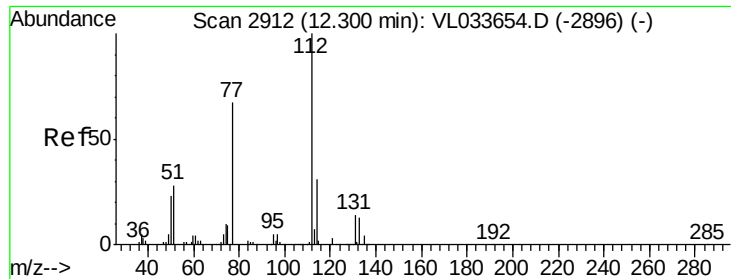
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.566 ppbv
RT: 12.28 min Scan# 2905
Delta R.T. 0.00 min
Lab File: VL033654.D
Acq: 6 May 2019 10:59

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.0	76.1	114.1
119	56.8	49.4	74.0





#57

Chlorobenzene

Concen: 9.297 ppbv

RT: 12.30 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VL033654.D

Acq: 6 May 2019 10:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:112 Resp: 2025762

Ion Ratio Lower Upper

112 100

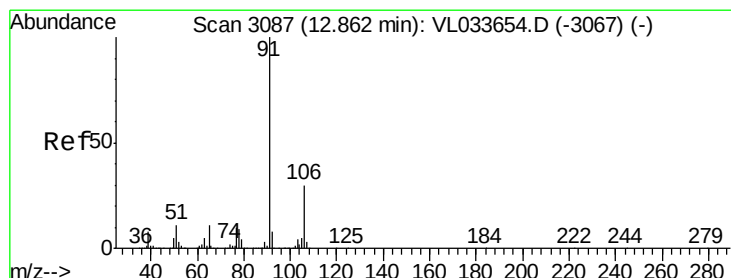
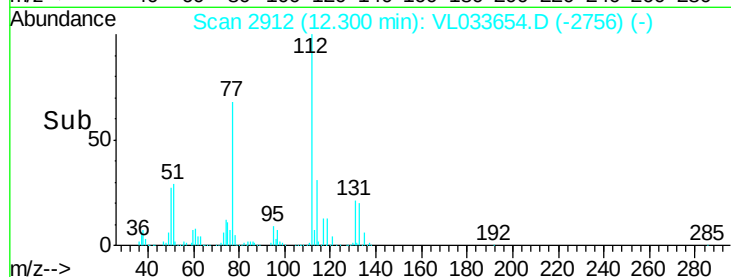
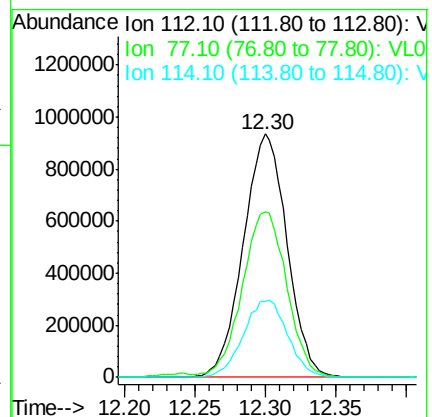
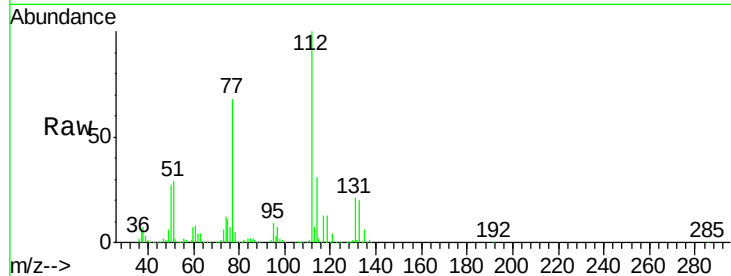
77 68.0 54.4 81.6

114 31.3 28.2 34.4

Manual Integrations
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#58

Ethyl Benzene

Concen: 10.458 ppbv

RT: 12.86 min Scan# 3087

Delta R.T. 0.00 min

Lab File: VL033654.D

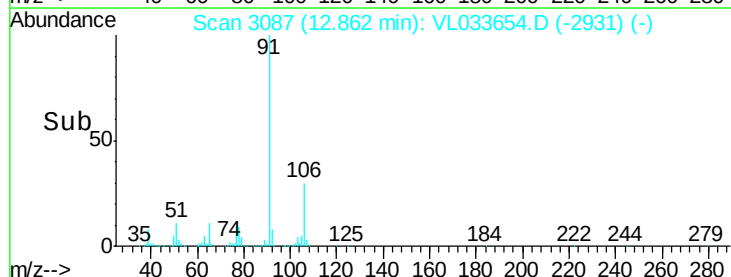
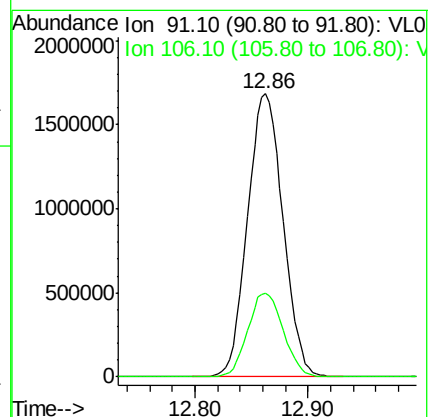
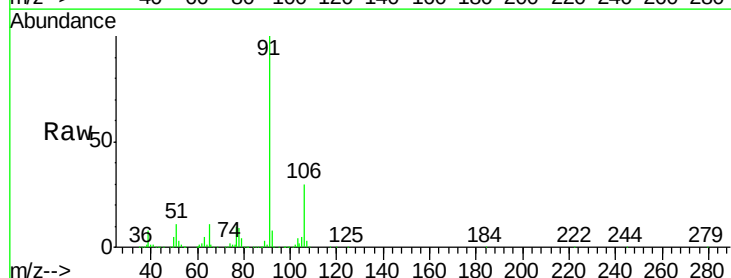
Acq: 6 May 2019 10:59

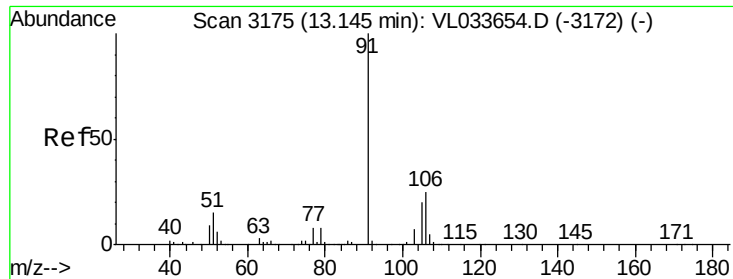
Tgt Ion: 91 Resp: 3667317

Ion Ratio Lower Upper

91 100

106 29.6 23.7 35.5





#59

m/p-Xylene

Concen: 20.221 ppbv m

RT: 13.15 min Scan# 3175

Delta R.T. 0.00 min

Lab File: VL033654.D

Acq: 6 May 2019 10:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 91 Resp: 6103755

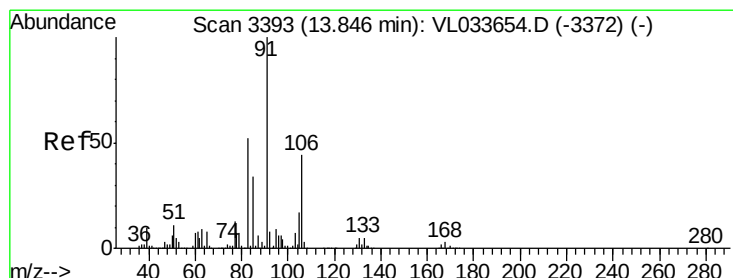
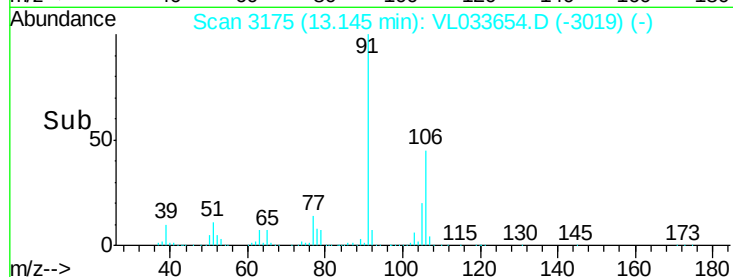
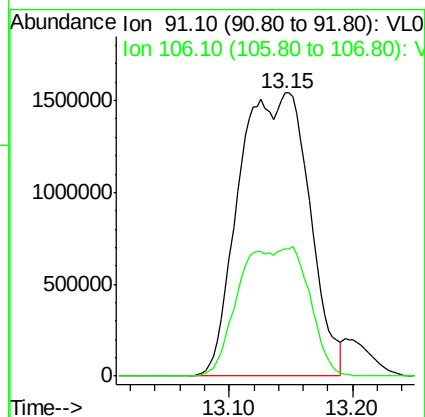
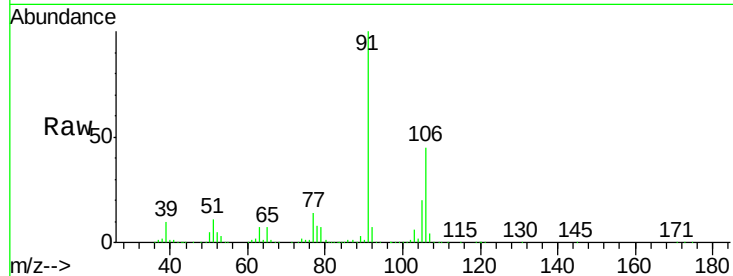
Ion Ratio Lower Upper

91 100

106 45.2 35.9 53.9

Manual Integrations
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#60

o-Xylene

Concen: 10.167 ppbv

RT: 13.85 min Scan# 3393

Delta R.T. 0.00 min

Lab File: VL033654.D

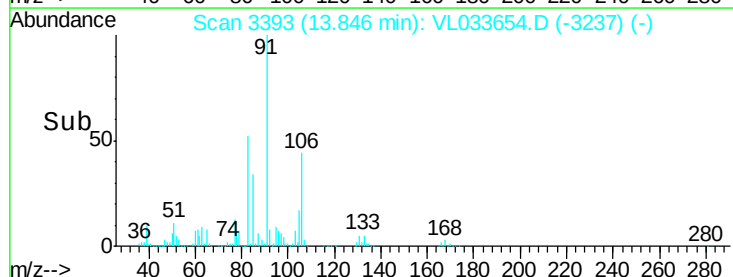
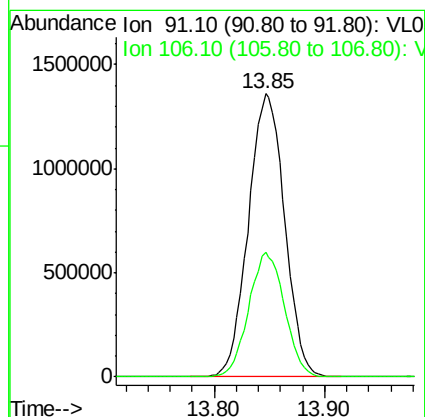
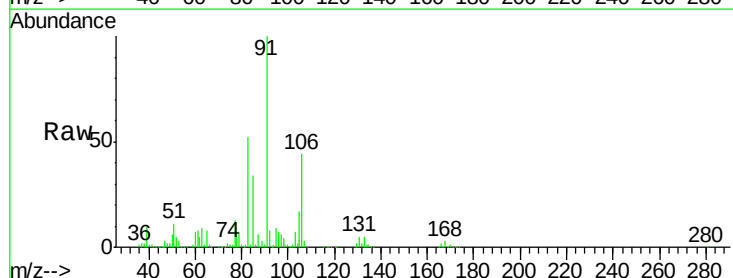
Acq: 6 May 2019 10:59

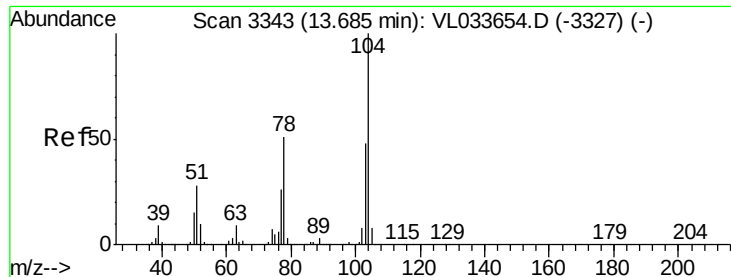
Tgt Ion: 91 Resp: 3091446

Ion Ratio Lower Upper

91 100

106 43.4 21.7 65.1





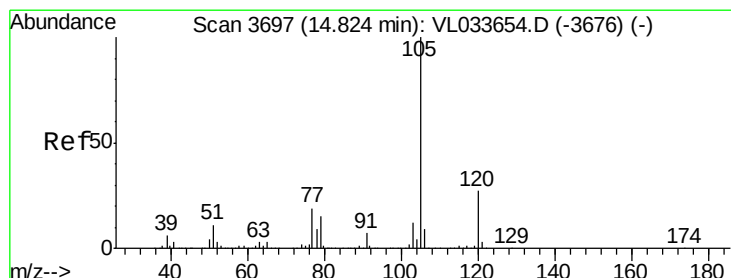
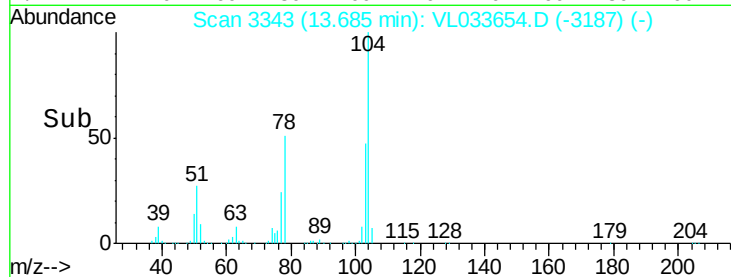
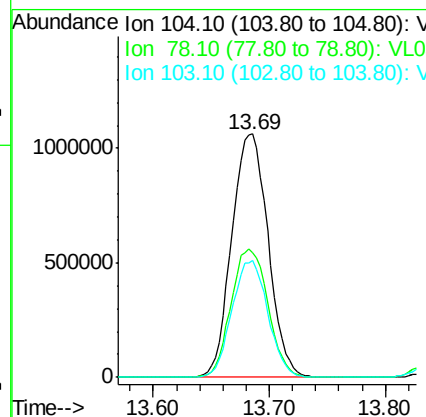
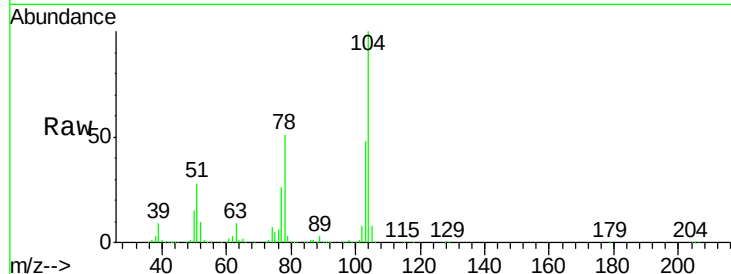
#61
Stvrene
Concen: 11.042 ppbv
RT: 13.69 min Scan# 3343
Delta R.T. 0.00 min
Lab File: VL033654.D
Acq: 6 May 2019 10:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
104	100		
78	53.8	43.0	64.6
103	47.6	38.1	57.1

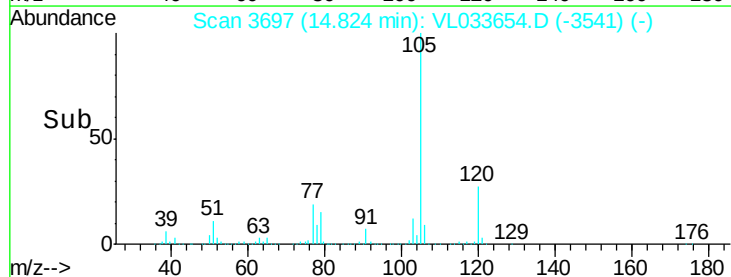
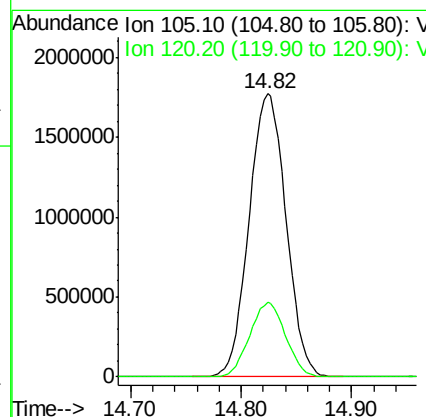
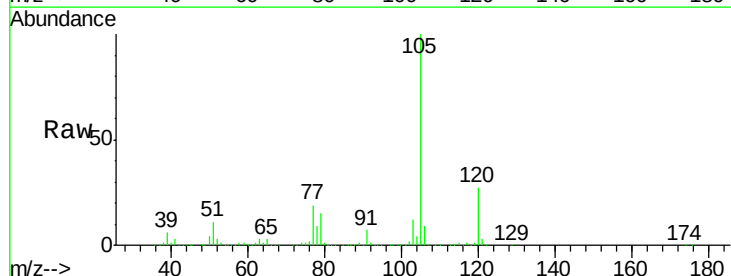
Manual Integrations
APPROVED

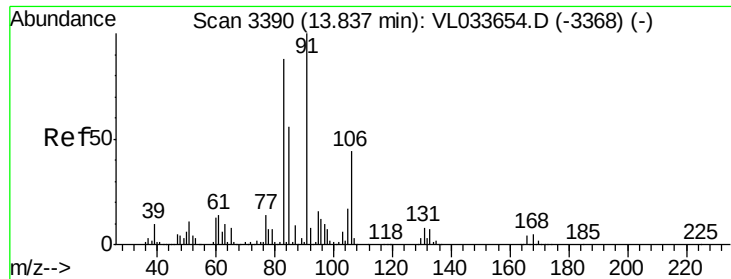
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#62
Isopropylbenzene
Concen: 10.139 ppbv
RT: 14.82 min Scan# 3697
Delta R.T. 0.00 min
Lab File: VL033654.D
Acq: 6 May 2019 10:59

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.6	20.5	30.7





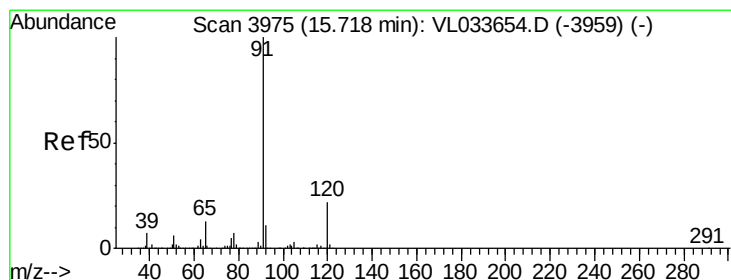
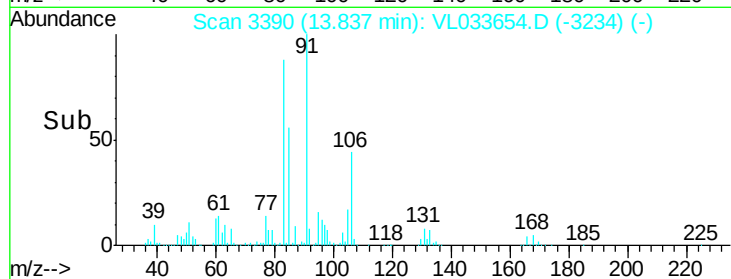
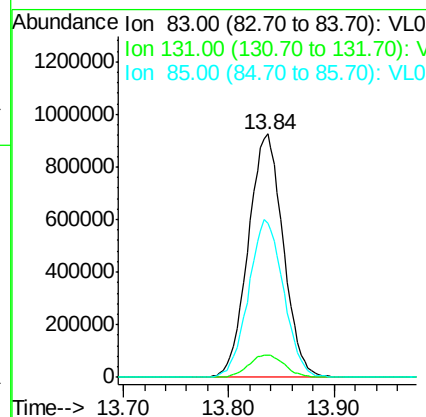
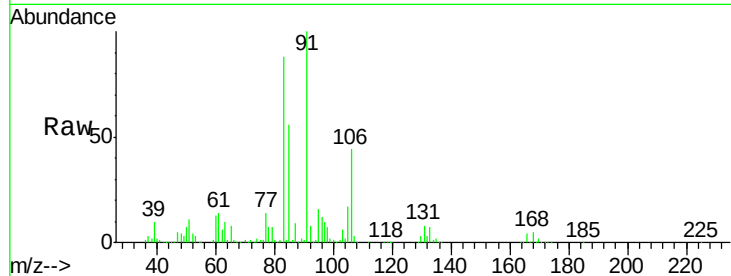
#63
 1,1,2,2-Tetrachloroethane
 Concen: 9.262 ppbv
 RT: 13.84 min Scan# 3390
 Delta R.T. 0.00 min
 Lab File: VL033654.D
 Acq: 6 May 2019 10:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	83	Resp	2131144
Ion Ratio	100	Lower	Upper
83	100		
131	9.5	4.8	14.3
85	64.9	32.5	97.5

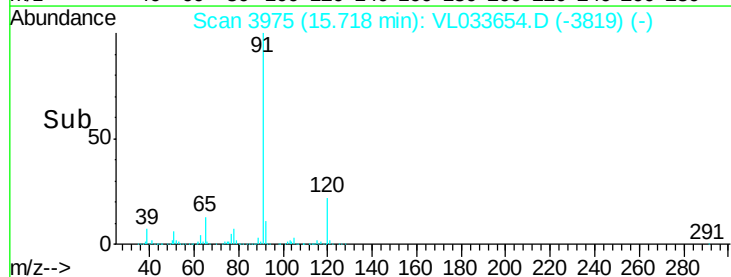
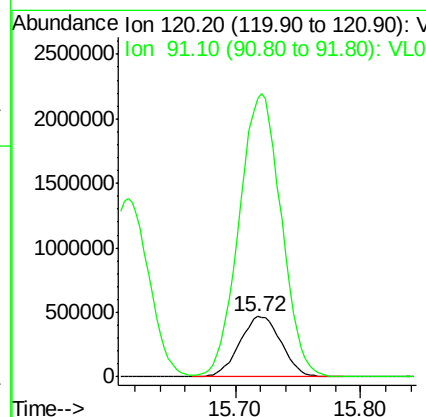
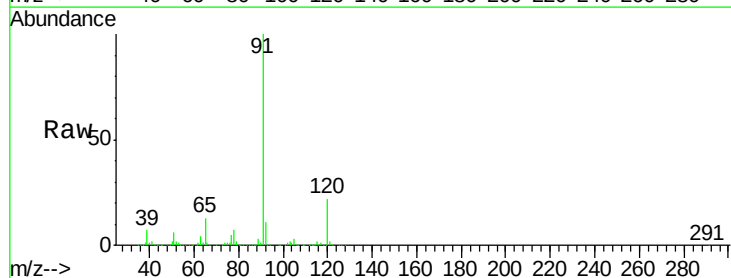
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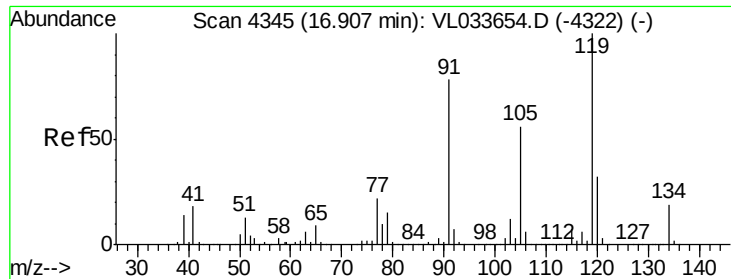
MMDadoda
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#64
 n-propylbenzene
 Concen: 10.269 ppbv
 RT: 15.72 min Scan# 3975
 Delta R.T. 0.00 min
 Lab File: VL033654.D
 Acq: 6 May 2019 10:59

Tgt Ion	120	Resp	1082216
Ion Ratio	100	Lower	Upper
120	100		
91	473.8	379.4	569.2





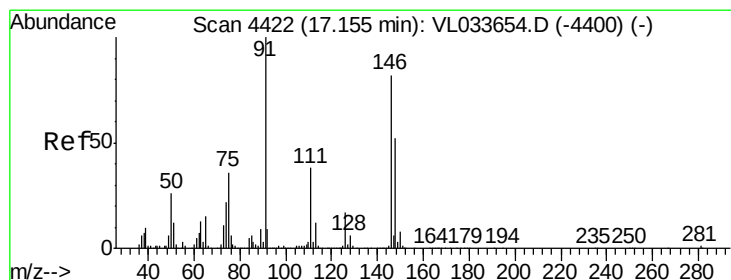
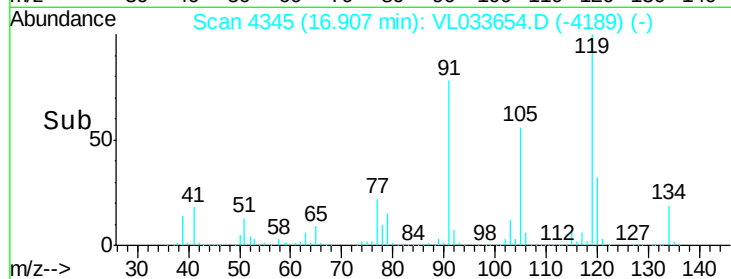
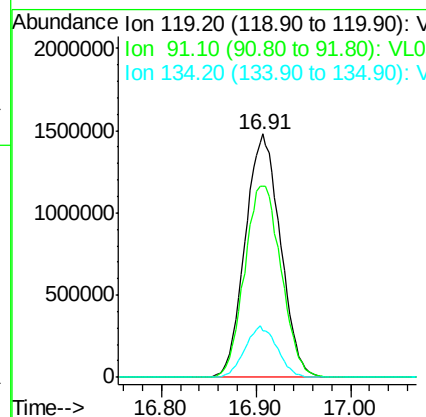
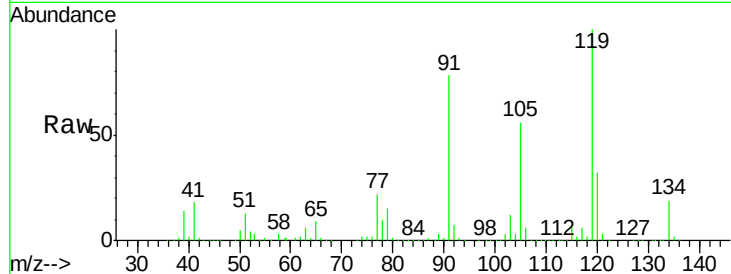
#65
 tert-Butylbenzene
 Concen: 10.035 ppbv
 RT: 16.91 min Scan# 4345
 Delta R.T. 0.00 min
 Lab File: VL033654.D
 Acq: 6 May 2019 10:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion:119 Resp: 3805745
 Ion Ratio Lower Upper
 119 100
 91 82.4 65.9 98.9
 134 19.4 15.5 23.3

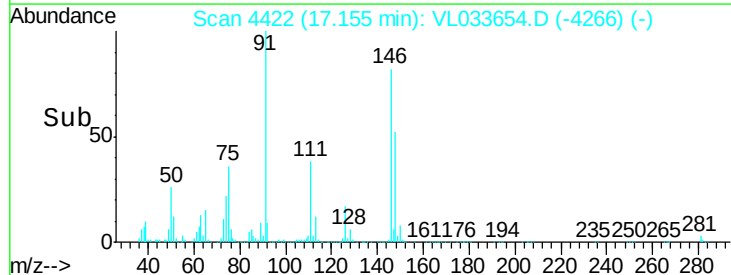
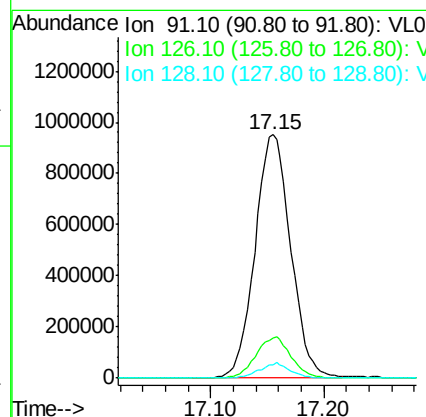
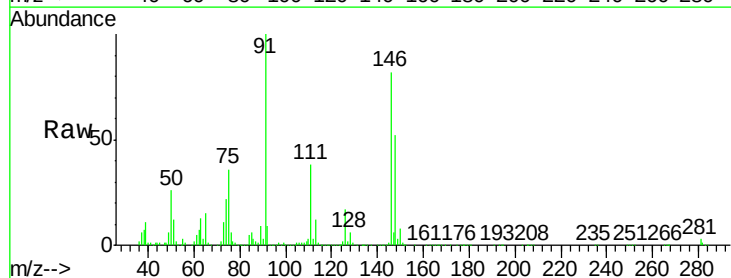
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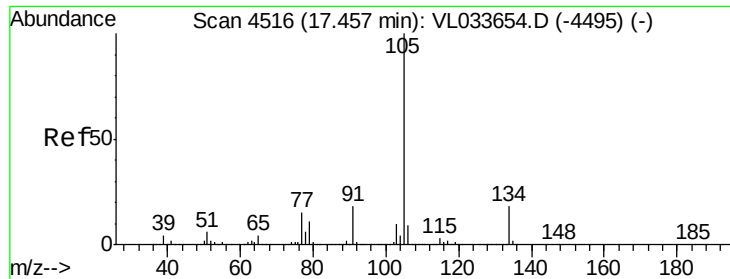
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#66
 Benzyl Chloride
 Concen: 11.898 ppbv
 RT: 17.15 min Scan# 4422
 Delta R.T. 0.00 min
 Lab File: VL033654.D
 Acq: 6 May 2019 10:59

Tgt Ion: 91 Resp: 2080781
 Ion Ratio Lower Upper
 91 100
 126 16.8 13.4 20.2
 128 5.5 4.4 6.6





#67

sec-Butylbenzene

Concen: 10.053 ppbv

RT: 17.46 min Scan# 4516

Delta R.T. 0.00 min

Lab File: VL033654.D

Acq: 6 May 2019 10:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:105 Resp: 5346001

Ion Ratio Lower Upper

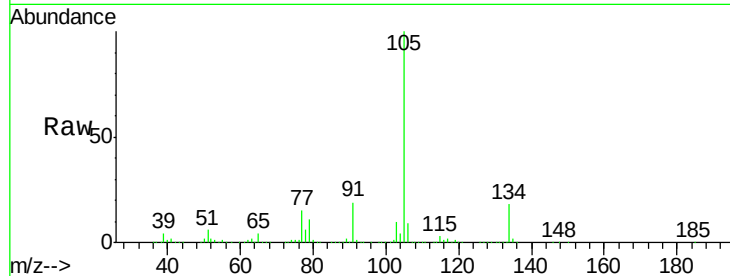
105 100

134 18.3 14.6 22.0

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.46

2500000

2000000

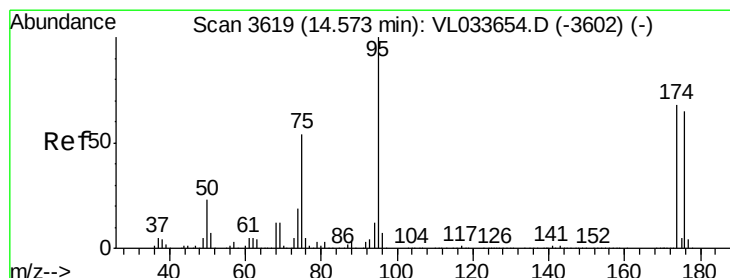
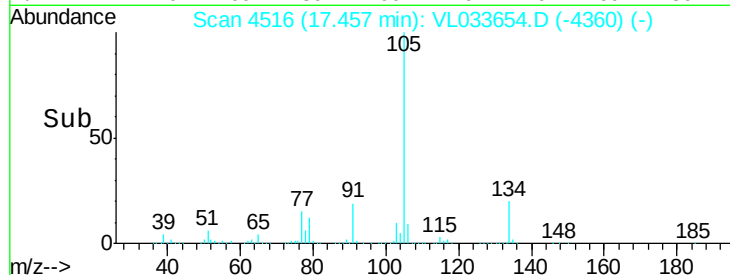
1500000

1000000

500000

0

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 9.582 ppbv

RT: 14.57 min Scan# 3619

Delta R.T. 0.00 min

Lab File: VL033654.D

Acq: 6 May 2019 10:59

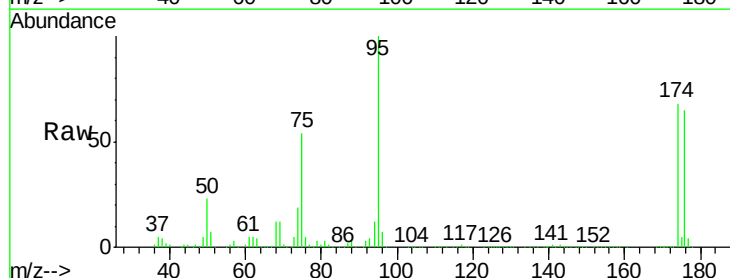
Tgt Ion: 95 Resp: 2137110

Ion Ratio Lower Upper

95 100

174 67.5 54.0 81.0

175 4.8 3.8 5.8



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

14.57

1200000

1000000

800000

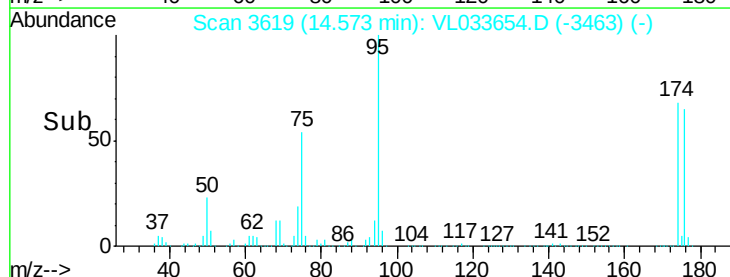
600000

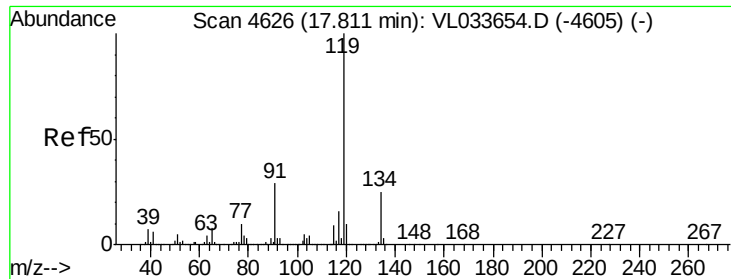
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Time-->





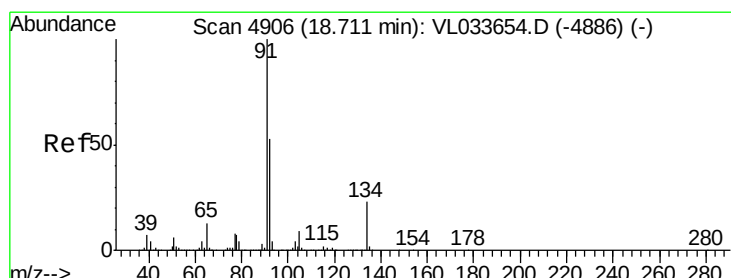
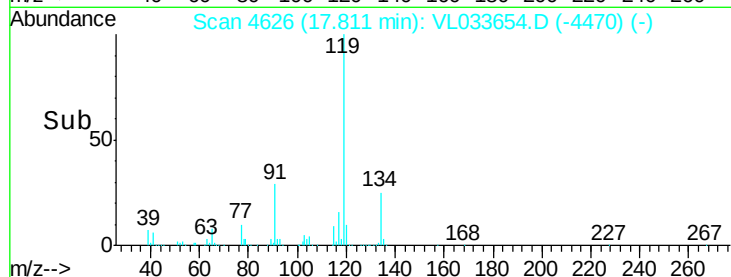
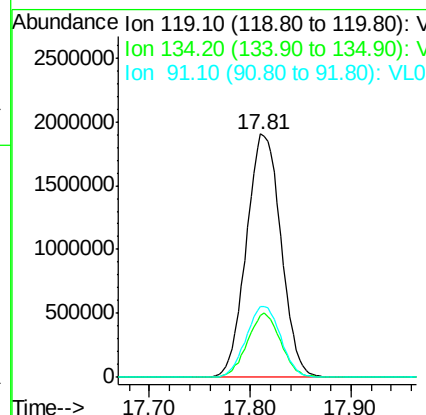
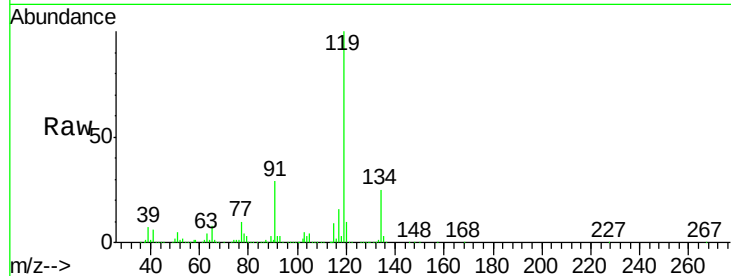
#69
 p-Isopropyltoluene
 Concen: 10.218 ppbv
 RT: 17.81 min Scan# 4626
 Delta R.T. 0.00 min
 Lab File: VL033654.D
 Acq: 6 May 2019 10:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion: 119 Resp: 4522026
 Ion Ratio Lower Upper
 119 100
 134 25.2 20.2 30.2
 91 29.3 23.3 34.9

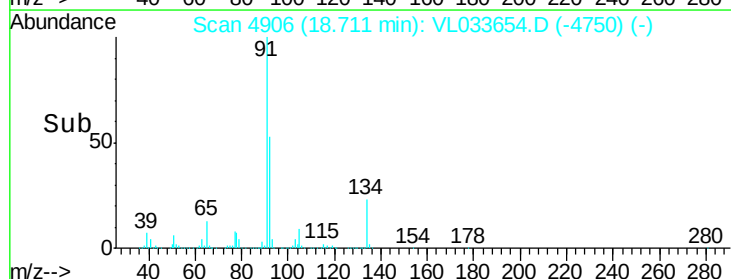
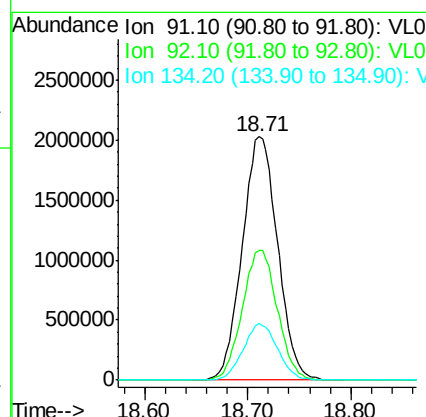
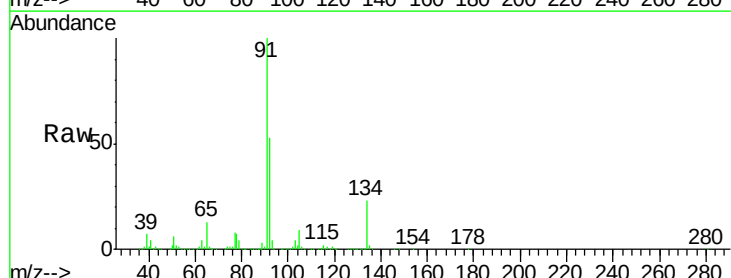
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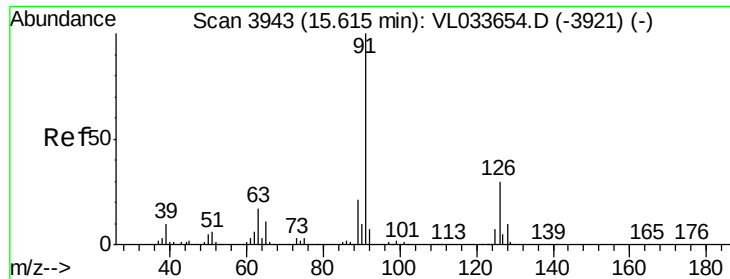
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#70
 n-Butylbenzene
 Concen: 10.000 ppbv
 RT: 18.71 min Scan# 4906
 Delta R.T. 0.00 min
 Lab File: VL033654.D
 Acq: 6 May 2019 10:59

Tgt Ion: 91 Resp: 4823758
 Ion Ratio Lower Upper
 91 100
 92 53.1 42.5 63.7
 134 22.5 18.0 27.0





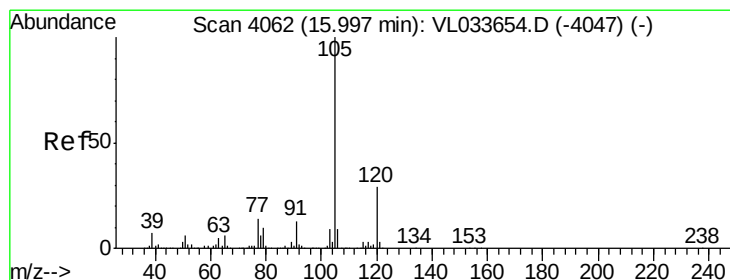
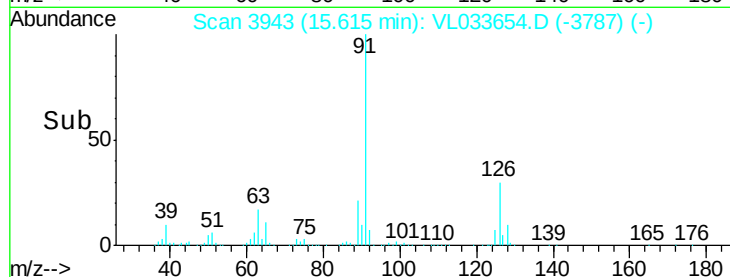
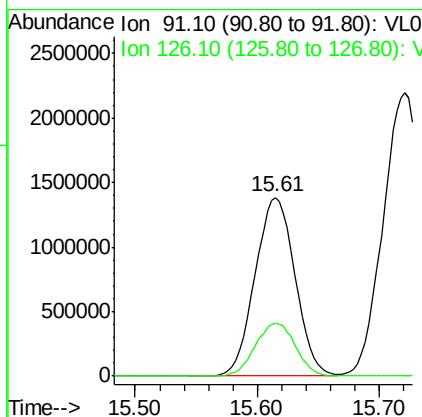
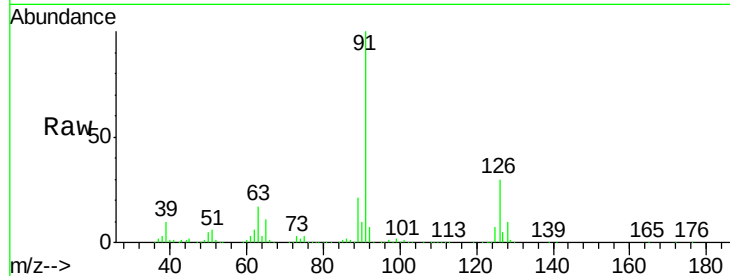
#71
 2-Chlorotoluene
 Concen: 10.359 ppbv
 RT: 15.61 min Scan# 3943
 Delta R.T. 0.00 min
 Lab File: VL033654.D
 Acq: 6 May 2019 10:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion: 91 Resp: 3150076
 Ion Ratio Lower Upper
 91 100
 126 29.9 12.0 47.8

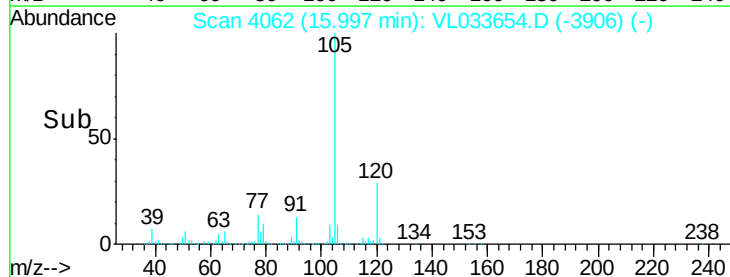
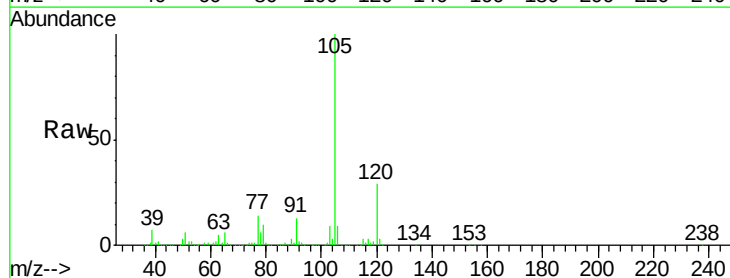
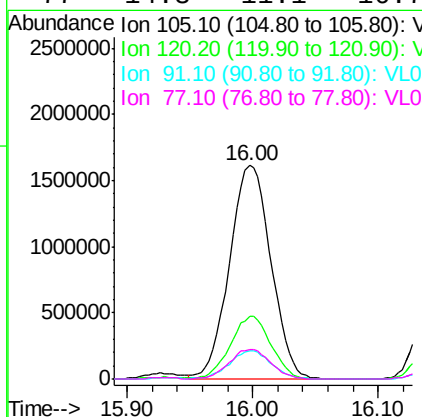
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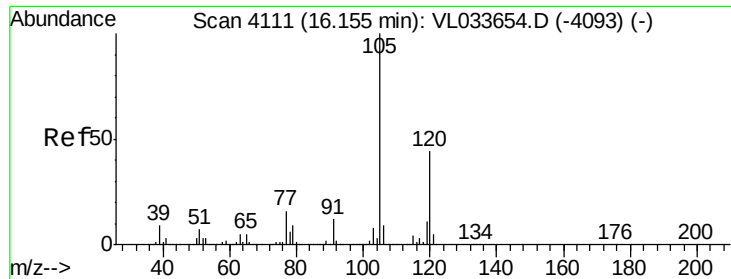
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#72
 4-Ethyltoluene
 Concen: 10.647 ppbv
 RT: 16.00 min Scan# 4062
 Delta R.T. 0.00 min
 Lab File: VL033654.D
 Acq: 6 May 2019 10:59

Tgt Ion: 105 Resp: 3705242
 Ion Ratio Lower Upper
 105 100
 120 28.8 23.0 34.6
 91 13.1 10.6 15.8
 77 14.3 11.1 16.7





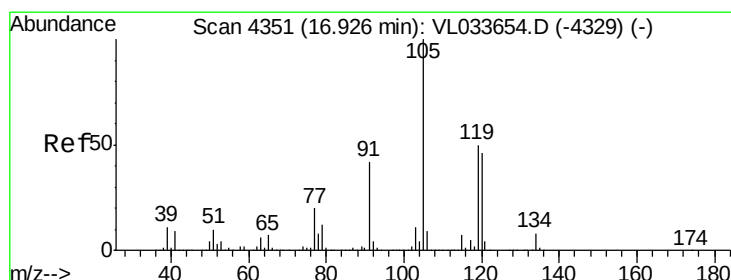
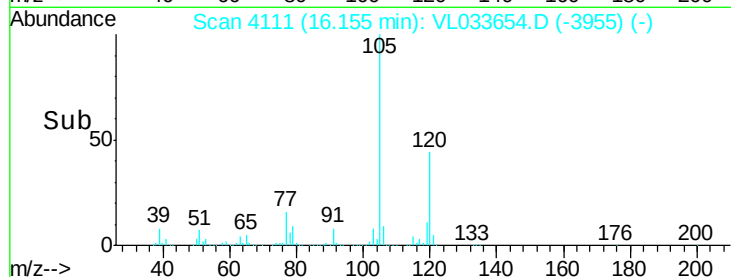
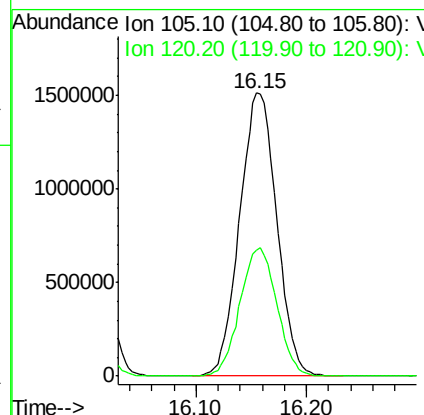
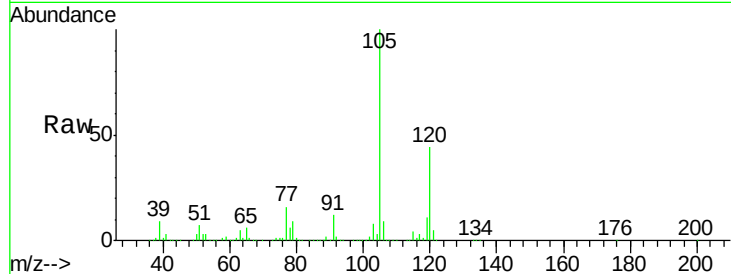
#73
 1,3,5-Trimethylbenzene
 Concen: 10.319 ppbv
 RT: 16.15 min Scan# 4111
 Delta R.T. 0.00 min
 Lab File: VL033654.D
 Acq: 6 May 2019 10:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion:105 Resp: 3518371
 Ion Ratio Lower Upper
 105 100
 120 44.4 35.5 53.3

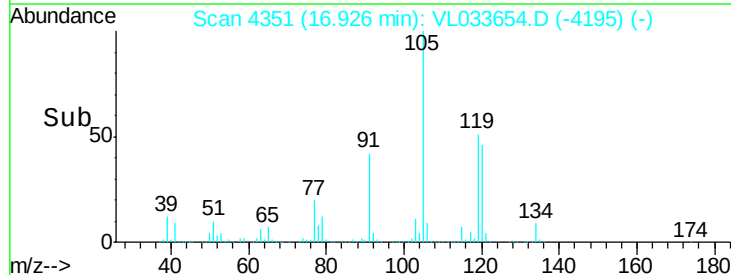
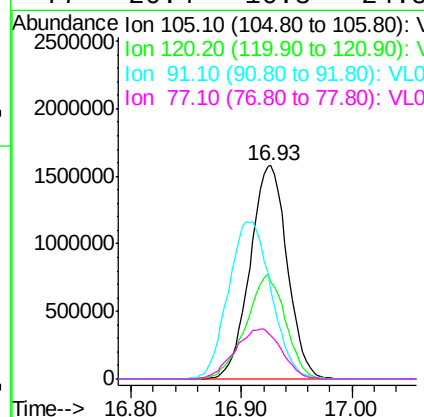
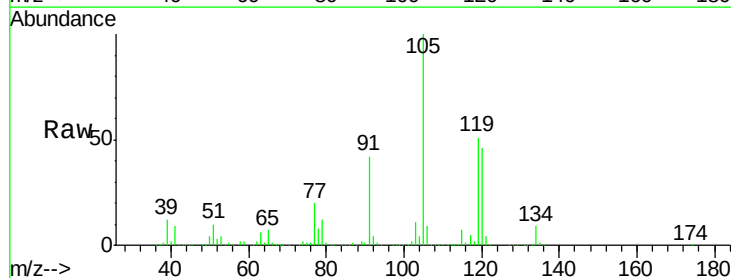
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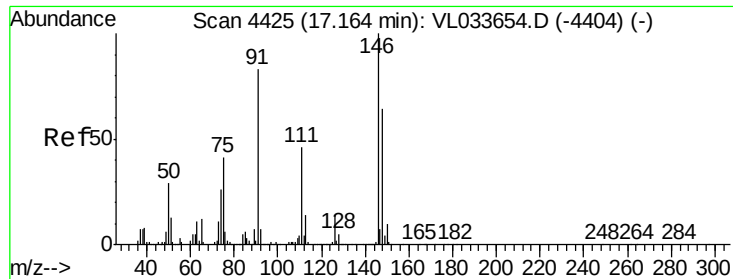
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#74
 1,2,4-Trimethylbenzene
 Concen: 9.743 ppbv
 RT: 16.93 min Scan# 4351
 Delta R.T. 0.00 min
 Lab File: VL033654.D
 Acq: 6 May 2019 10:59

Tgt Ion:105 Resp: 3684415
 Ion Ratio Lower Upper
 105 100
 120 45.6 36.5 54.7
 91 42.1 33.7 50.5
 77 20.4 16.3 24.5





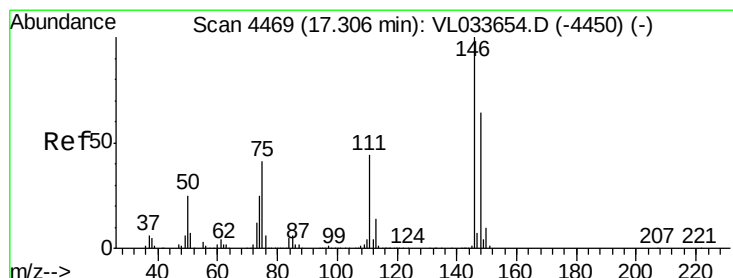
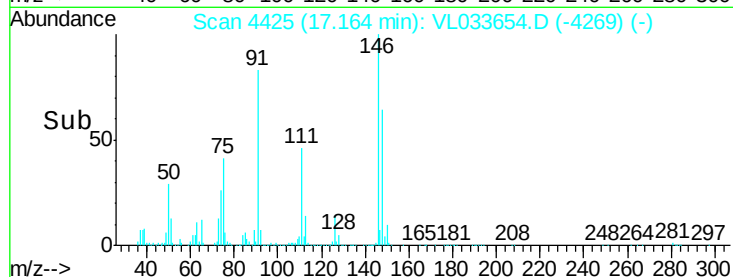
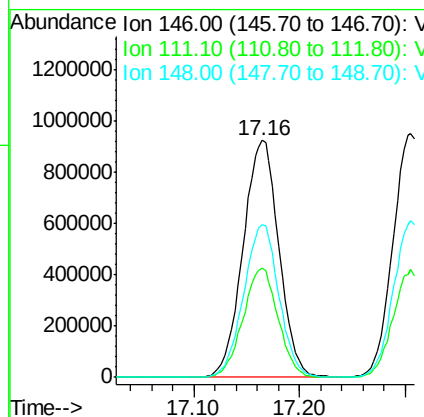
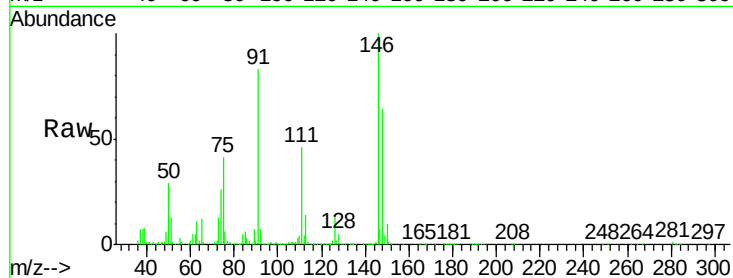
#75
 1,3-Dichlorobenzene
 Concen: 9.326 ppbv
 RT: 17.16 min Scan# 4425
 Delta R.T. 0.00 min
 Lab File: VL033654.D
 Acq: 6 May 2019 10:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion:146 Resp: 2188201
 Ion Ratio Lower Upper
 146 100
 111 45.1 22.6 67.7
 148 63.6 31.8 95.4

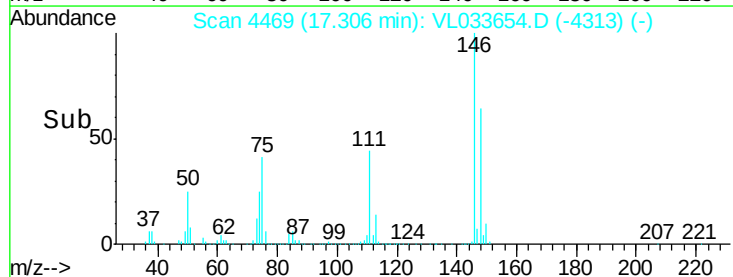
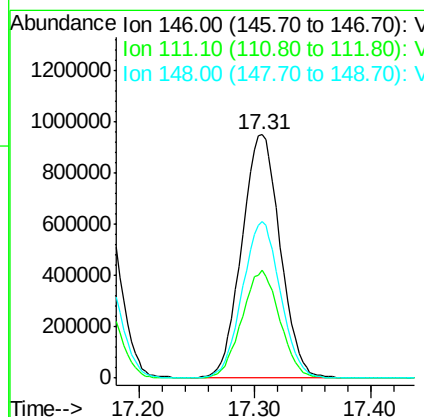
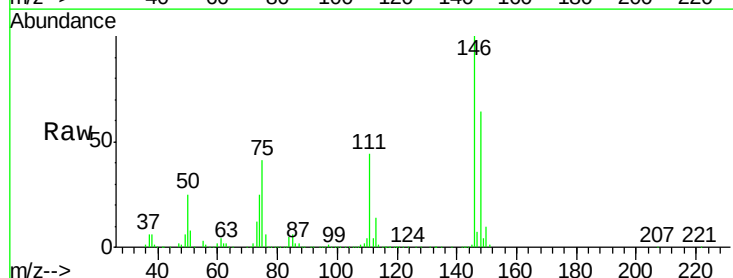
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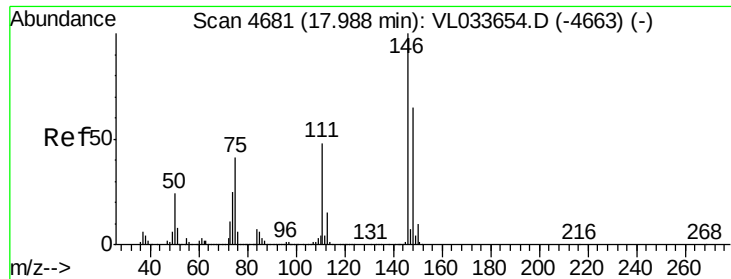
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#76
 1,4-Dichlorobenzene
 Concen: 9.754 ppbv
 RT: 17.31 min Scan# 4469
 Delta R.T. 0.00 min
 Lab File: VL033654.D
 Acq: 6 May 2019 10:59

Tgt Ion:146 Resp: 2182703
 Ion Ratio Lower Upper
 146 100
 111 44.0 21.9 65.7
 148 64.3 32.0 96.0





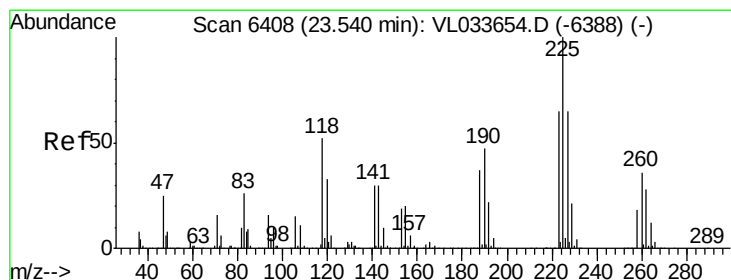
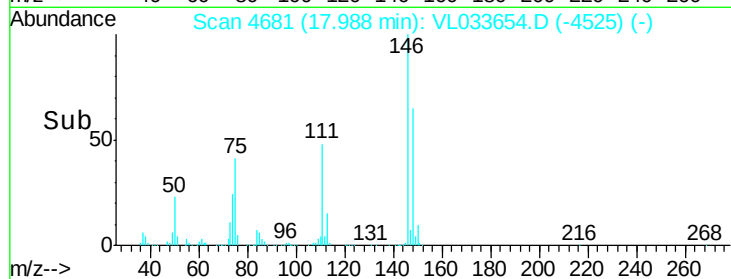
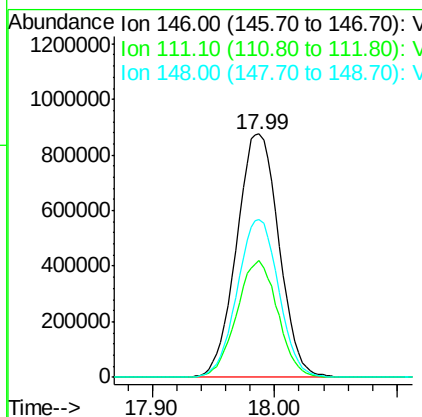
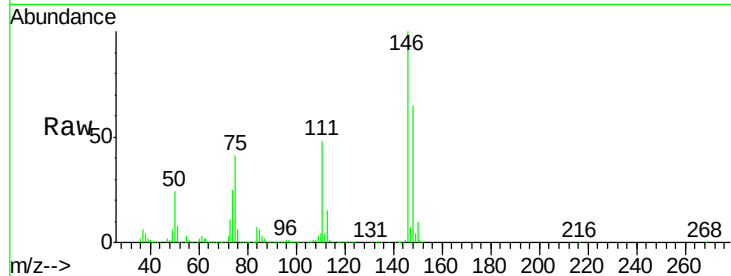
#77
 1,2-Dichlorobenzene
 Concen: 9.581 ppbv
 RT: 17.99 min Scan# 4681
 Delta R.T. 0.00 min
 Lab File: VL033654.D
 Acq: 6 May 2019 10:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ion	Ratio	Lower	Upper
146	100			
111	46.7	23.4	70.0	
148	63.9	31.9	95.9	

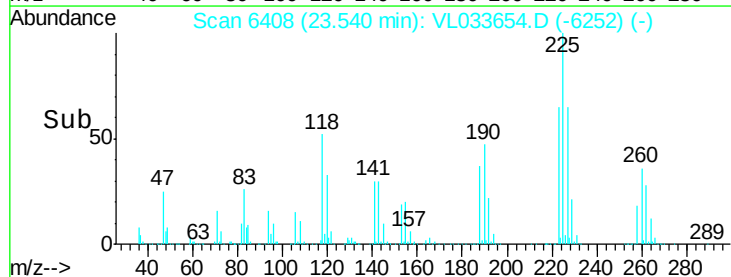
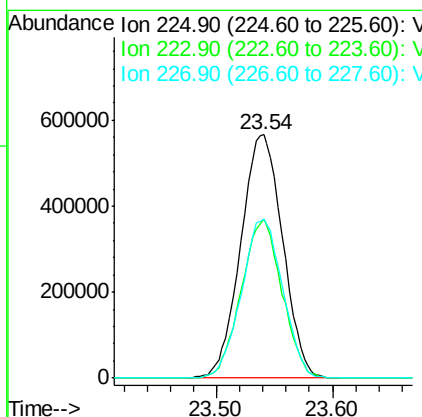
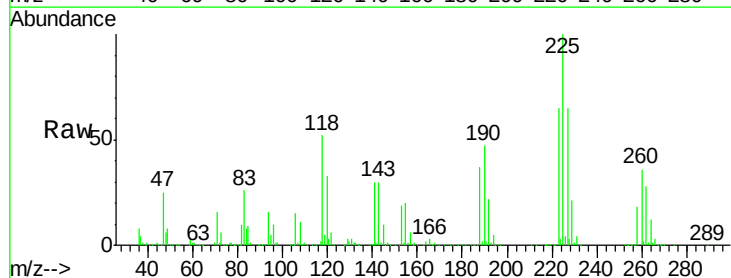
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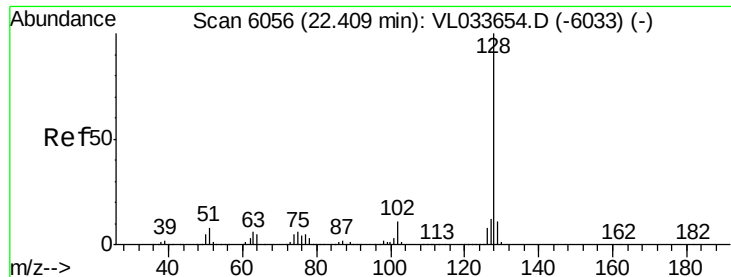
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#78
 Hexachloro-1,3-Butadiene
 Concen: 8.539 ppbv
 RT: 23.54 min Scan# 6408
 Delta R.T. 0.00 min
 Lab File: VL033654.D
 Acq: 6 May 2019 10:59

Tgt Ion	Ion	Ratio	Lower	Upper
225	100			
223	63.4	50.7	76.1	
227	64.3	51.4	77.2	





#79

Naphthalene

Concen: 10.780 ppbv

RT: 22.41 min Scan# 6056

Delta R.T. 0.00 min

Lab File: VL033654.D

Acq: 6 May 2019 10:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:128 Resp: 3804750

Ion Ratio Lower Upper

128 100

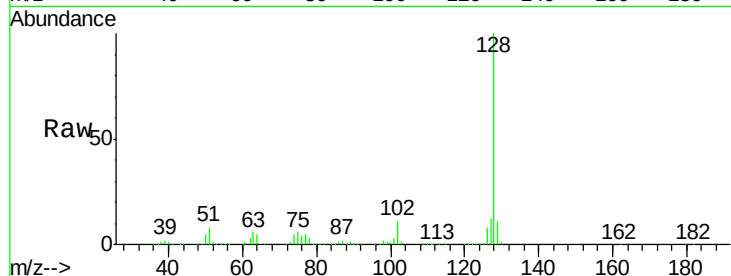
127 12.3 9.8 14.8

129 11.0 8.8 13.2

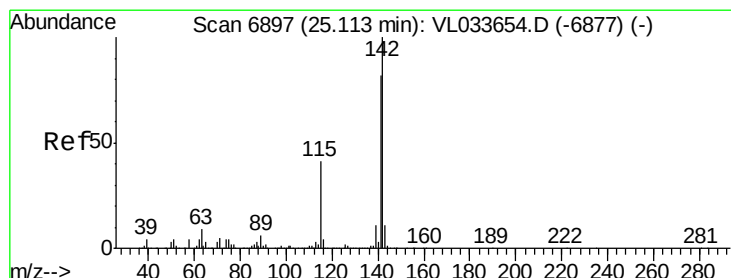
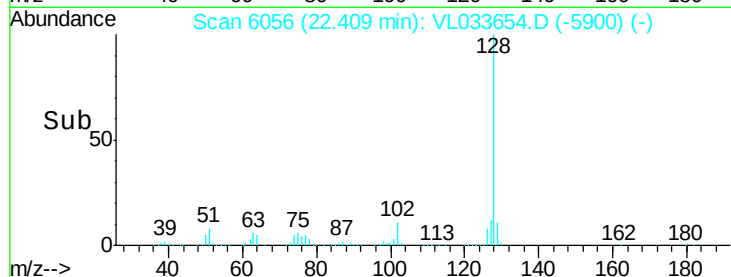
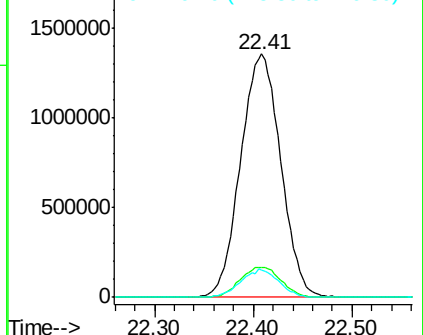
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Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 10.912 ppbv

RT: 25.11 min Scan# 6897

Delta R.T. 0.00 min

Lab File: VL033654.D

Acq: 6 May 2019 10:59

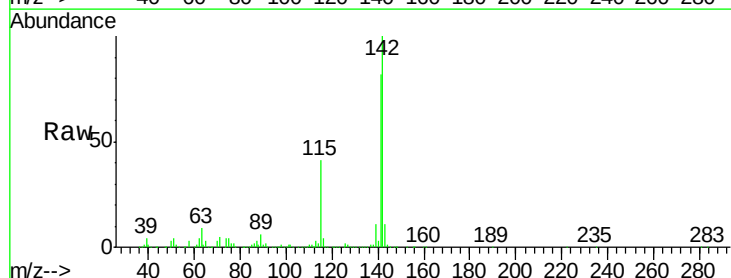
Tgt Ion:142 Resp: 1634251

Ion Ratio Lower Upper

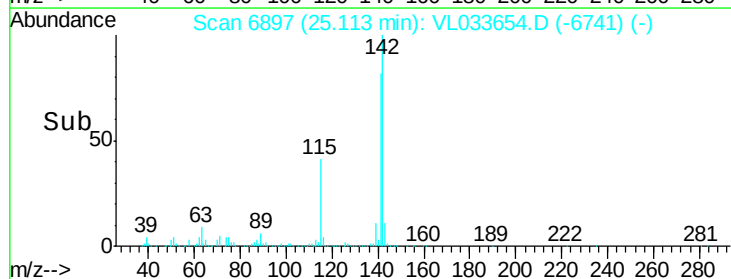
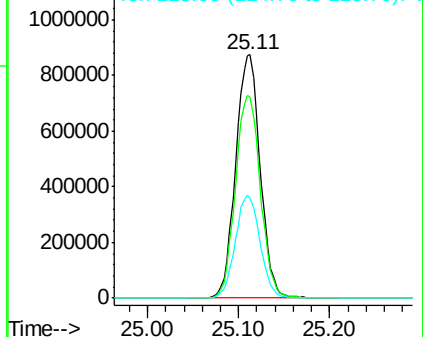
142 100

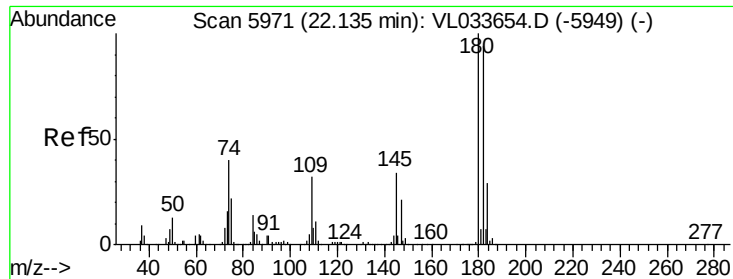
141 84.9 67.8 101.8

115 42.8 34.2 51.4



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





#81
 1,2,4-Trichlorobenzene
 Concen: 10.050 ppbv
 RT: 22.14 min Scan# 5971
 Delta R.T. 0.00 min
 Lab File: VL033654.D
 Acq: 6 May 2019 10:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.7	77.4	116.0
184	30.7	24.6	36.8

Manual Integrations
 APPROVED

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