

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052319\
 Data File : VL033772.D
 Acq On : 23 May 2019 13:16
 Operator : SY/AP
 Sample : VL0523ABS01DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0523ABS01DUP

Manual Integrations
 APPROVED

MMDadoda
 5/28/2019 2:53:20 AM

Quant Time: May 24 04:47:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 17 2019
 QLast Update : Fri May 17 08:15:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	920082	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2153566	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2285203	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1805362	9.75	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	1595065	8.226	ppbv	100
3) Chlorodifluoromethane	3.01	51	1122770	10.653	ppbv	99
4) Chloromethane	3.17	50	644658	10.694	ppbv	98
5) Vinyl Chloride	3.29	62	648042	10.554	ppbv	100
6) Bromomethane	3.51	94	416734	11.123	ppbv	99
7) Chloroethane	3.59	64	246802	11.310	ppbv	99
8) Dichlorotetrafluoroethane	3.21	85	1662322	10.634	ppbv	99
9) Propene	3.03	41	497215	11.092	ppbv	98
10) Heptane	8.24	43	1339541	10.552	ppbv	100
11) Trichlorofluoromethane	4.00	101	1954381	10.561	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.54	101	1329648	10.289	ppbv	99
13) Ethanol	3.64	45	87969	6.072	ppbv	97
14) Bromoethene	3.78	108	541490	11.397	ppbv	99
15) Acetone	3.89	43	1213735	9.508	ppbv	100
16) 1,3-Butadiene	3.36	39	568223	11.178	ppbv	98
17) tert-Butyl alcohol	4.35	59	1025529	9.935	ppbv	100
18) 1,1-Dichloroethene	4.35	96	586226	10.747	ppbv	98
19) Isopropyl Alcohol	4.02	45	738597	8.973	ppbv	99
20) Methylene Chloride	4.40	84	494630	10.064	ppbv	99
21) Allyl Chloride	4.47	41	856255	10.754	ppbv	100
22) trans-1,2-Dichloroethene	4.96	96	604258	10.807	ppbv	99
23) Vinyl Acetate	5.15	43	1908224	11.337	ppbv	99
24) 1,1-Dichloroethane	5.08	63	1332070	10.411	ppbv	99
25) Ethyl Acetate	5.76	43	2296033	10.239	ppbv	100
26) Hexane	5.77	57	994102	10.312	ppbv	98
27) Carbon Disulfide	4.62	76	1483475	11.216	ppbv	100
28) Methyl tert-Butyl Ether	5.11	73	1714626	10.910	ppbv	100
29) Chloroform	5.84	83	1741776	9.808	ppbv	100
30) Cyclohexane	7.24	84	846089	10.439	ppbv	100
31) cis-1,2-Dichloroethene	5.63	61	1049630	10.981	ppbv	99
32) 1,1,1-Trichloroethane	6.61	97	1769521	9.980	ppbv	100
34) 2-Butanone	5.32	43	1487858	11.146	ppbv	99
35) Carbon Tetrachloride	7.13	117	1882094	10.910	ppbv	99
36) Benzene	7.00	78	2084332	10.640	ppbv	98
37) 1,2-Dichloroethane	6.41	62	1325957	10.493	ppbv	100
38) Trichloroethene	7.95	130	907814	12.489	ppbv	98
39) 1,2-Dichloropropane	7.73	63	822222	11.258	ppbv	97
40) 1,4-Dioxane	7.95	88	303072	9.920	ppbv #	96
41) Tetrahydrofuran	6.14	42	838850	11.216	ppbv	99
42) Bromodichloromethane	7.91	83	1998217	11.550	ppbv	96
43) Methyl Methacrylate	8.13	69	868093	12.041	ppbv	98

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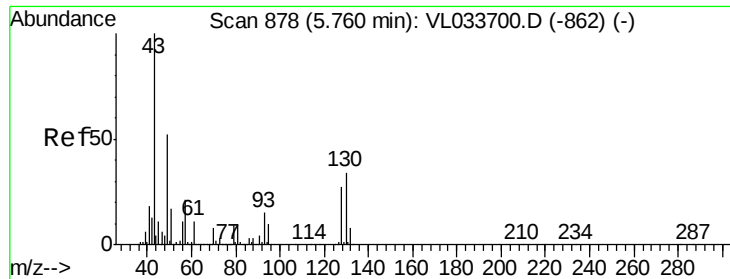
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 1
 QLast Update : Fri May 17 08:15:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.98	57	3713670	11.217	ppbv	99
45) t-1,3-Dichloropropene	9.41	75	1141808	12.493	ppbv	98
46) cis-1,3-Dichloropropene	8.83	75	1283373	11.992	ppbv	98
47) 1,1,2-Trichloroethane	9.61	97	884058	10.655	ppbv	99
48) Dibromochloromethane	10.44	129	1626921	11.317	ppbv	99
49) Bromoform	13.20	173	1488695	12.307	ppbv	99
50) 4-Methyl-2-Pentanone	8.86	43	2261606	11.015	ppbv	99
51) 2-Hexanone	10.26	43	1880608	11.736	ppbv #	99
52) Tetrachloroethene	11.36	164	799425	11.609	ppbv	96
53) Toluene	9.94	91	2466068	11.671	ppbv	100
54) 1,2-Dibromoethane	10.75	107	1396638	11.030	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.27	131	1081794	10.230	ppbv	97
57) Chlorobenzene	12.30	112	1897254	10.086	ppbv	99
58) Ethyl Benzene	12.86	91	3451312	11.405	ppbv	100
59) m/p-Xylene	13.14	91	5831058m	22.043	ppbv	
60) o-Xylene	13.84	91	2868223	10.756	ppbv	99
61) Styrene	13.68	104	2138151	11.909	ppbv	99
62) Isopropylbenzene	14.82	105	3827725	10.659	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	2014642	10.389	ppbv	100
64) n-propylbenzene	15.71	120	985328	10.607	ppbv	98
65) tert-Butylbenzene	16.90	119	3513295	10.715	ppbv	99
66) Benzyl Chloride	17.15	91	1819121	11.649	ppbv	100
67) sec-Butylbenzene	17.45	105	4852309	10.573	ppbv	100
69) p-Isopropyltoluene	17.81	119	4039181	10.649	ppbv	99
70) n-Butylbenzene	18.70	91	4175434	10.265	ppbv	99
71) 2-Chlorotoluene	15.61	91	2896461	10.871	ppbv	100
72) 4-Ethyltoluene	15.99	105	3341168	10.958	ppbv	100
73) 1,3,5-Trimethylbenzene	16.15	105	3203998	10.770	ppbv	99
74) 1,2,4-Trimethylbenzene	16.92	105	3365812	10.396	ppbv	100
75) 1,3-Dichlorobenzene	17.15	146	1929374	9.725	ppbv	99
76) 1,4-Dichlorobenzene	17.30	146	1907536	10.116	ppbv	100
77) 1,2-Dichlorobenzene	17.98	146	1860628	9.981	ppbv	100
78) Hexachloro-1,3-Butadiene	23.53	225	1102761	7.824	ppbv	99
79) Naphthalene	22.40	128	2781437	9.249	ppbv	99
80) Naphthalene, 2-methyl-	25.11	142	1142313	9.997	ppbv	100
81) 1,2,4-Trichlorobenzene	22.13	180	1568961	8.910	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

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MSVOA_L

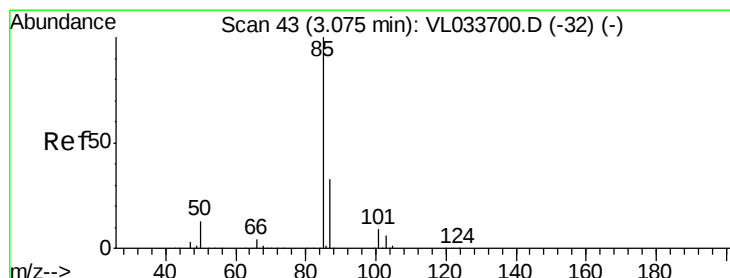
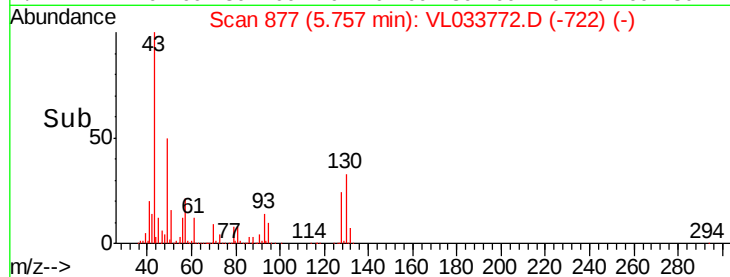
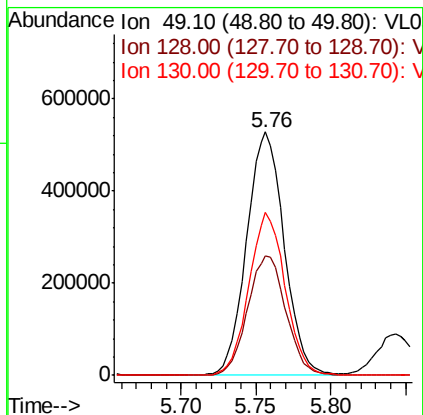
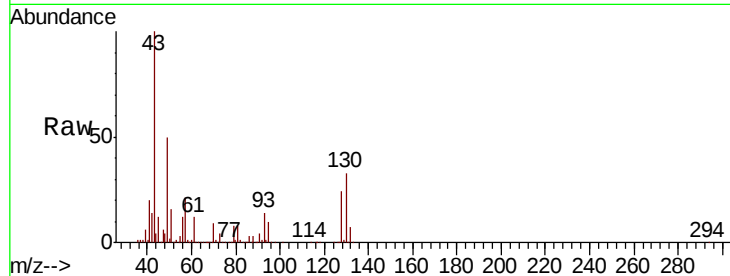
ClientSampleId :

VL0523ABS01DUP

Tot Ion:	49	Resp:	920082
Ion	Ratio	Lower	Upper
49	100		
128	50.3	25.2	75.6
130	65.3	32.5	97.5

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#2

Dichlorodifluoromethane

Concen: 8.226 ppbv

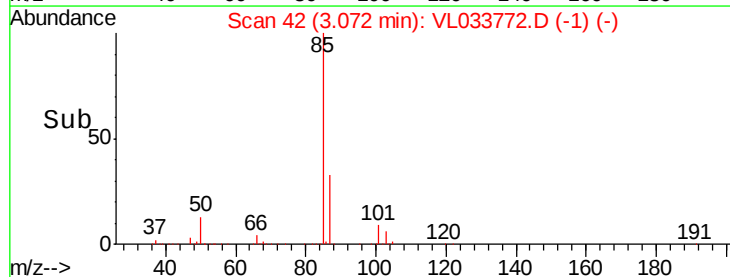
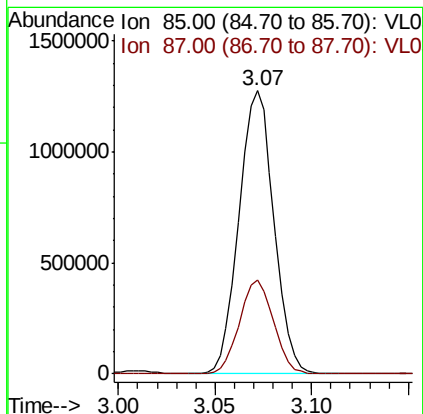
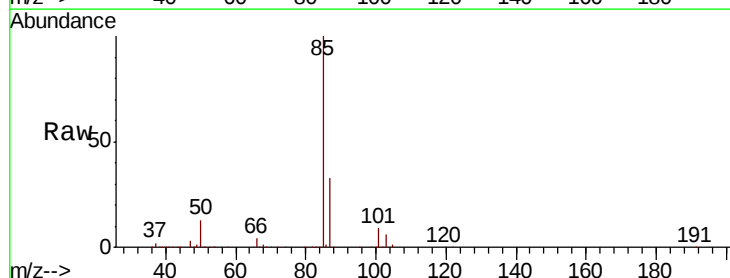
RT: 3.07 min Scan# 42

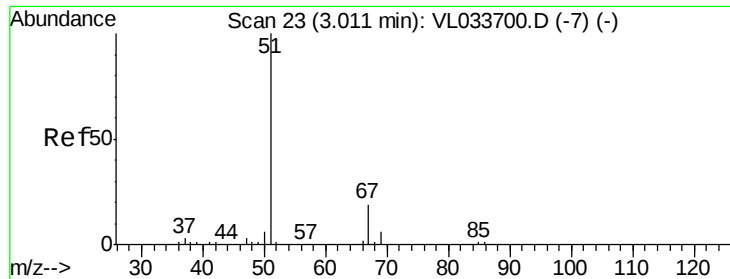
Delta R.T. -0.00 min

Lab File: VL033772.D

Acq: 23 May 2019 13:16

Tgt Ion:	85	Resp:	1595065
Ion	Ratio	Lower	Upper
85	100		
87	33.2	26.3	39.5





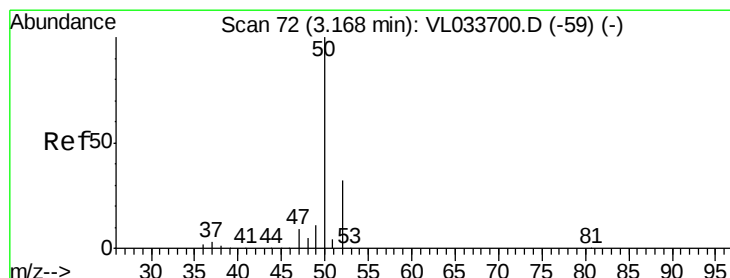
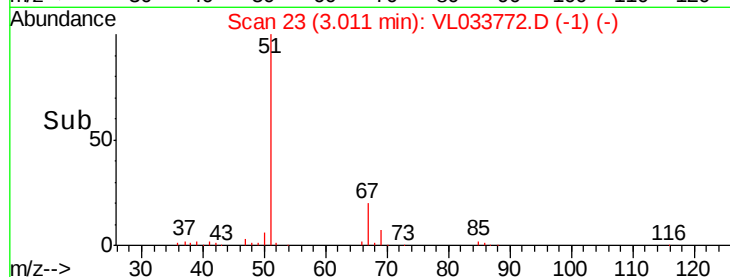
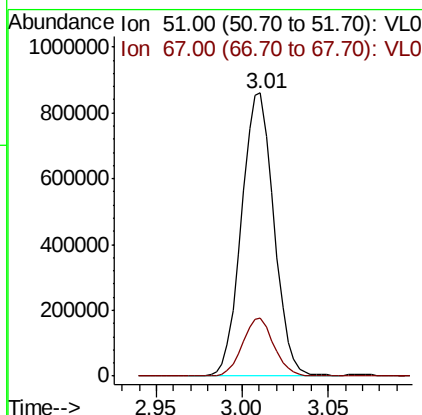
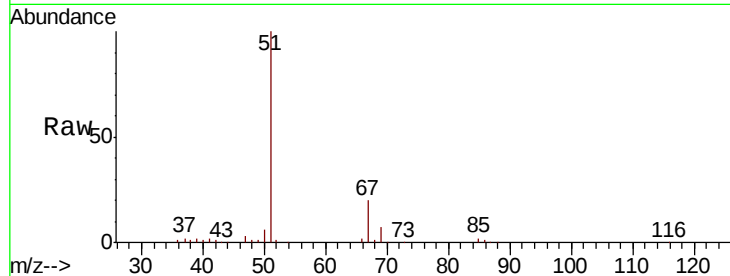
#3
 Chlorodifluoromethane
 Concen: 10.653 ppbv
 RT: 3.01 min Scan# 23
 Delta R.T. 0.00 min
 Lab File: VL033772.D
 Acq: 23 May 2019 13:16

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 MSVOA_L
 ClientSampleId :
 VL0523ABS01DUP

Tot Ion: 51 Resp: 1122770
 Ion Ratio Lower Upper
 51 100
 67 19.9 15.6 23.4

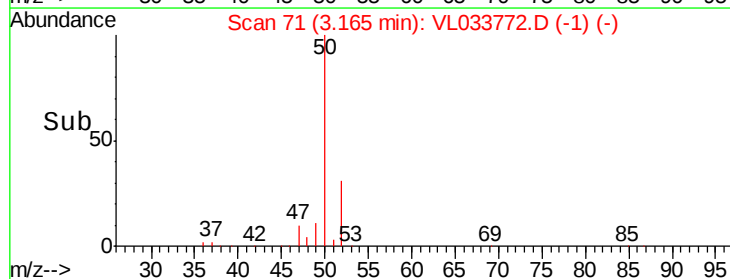
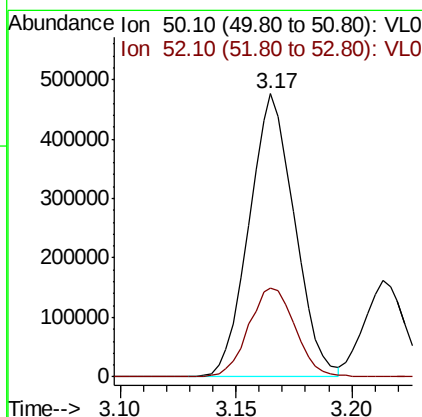
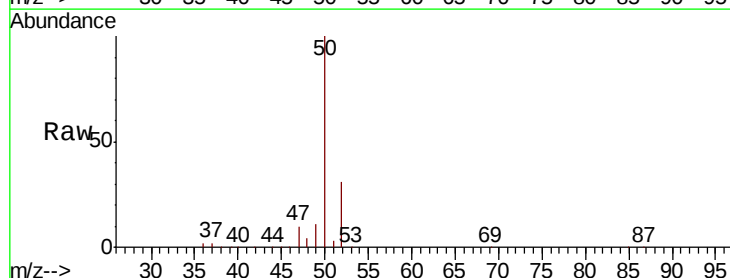
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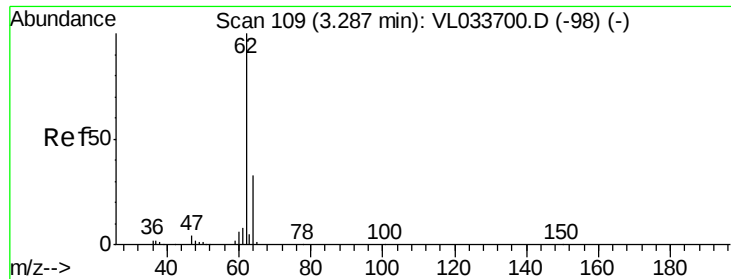
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#4
 Chloromethane
 Concen: 10.694 ppbv
 RT: 3.17 min Scan# 71
 Delta R.T. -0.00 min
 Lab File: VL033772.D
 Acq: 23 May 2019 13:16

Tgt Ion: 50 Resp: 644658
 Ion Ratio Lower Upper
 50 100
 52 31.2 25.7 38.5





#5

Vinyl Chloride

Concen: 10.554 ppbv

RT: 3.29 min Scan# 109

Delta R.T. 0.00 min

Lab File: VL033772.D

Acq: 23 May 2019 13:16

Instrument :

MSVOA_L

ClientSampleId :

VL0523ABS01DUP

Tot Ion: 62 Resp: 648042

Ion Ratio Lower Upper

62 100

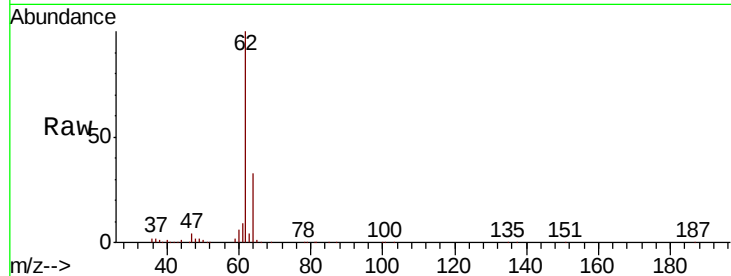
64 32.8 26.4 39.6

Manual Integrations

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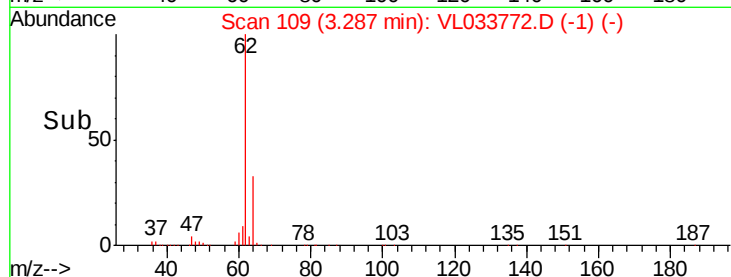
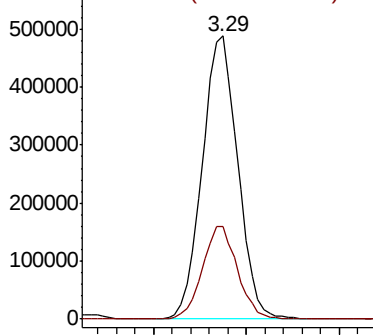
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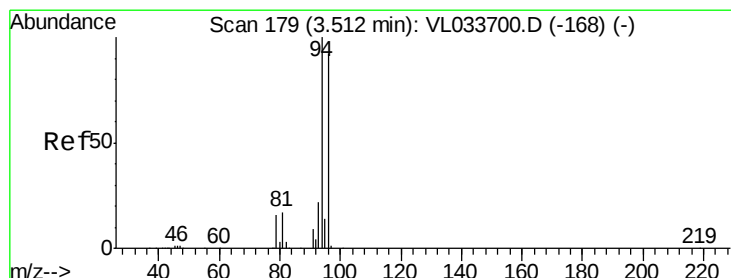


Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



Time-->



#6

Bromomethane

Concen: 11.123 ppbv

RT: 3.51 min Scan# 178

Delta R.T. -0.00 min

Lab File: VL033772.D

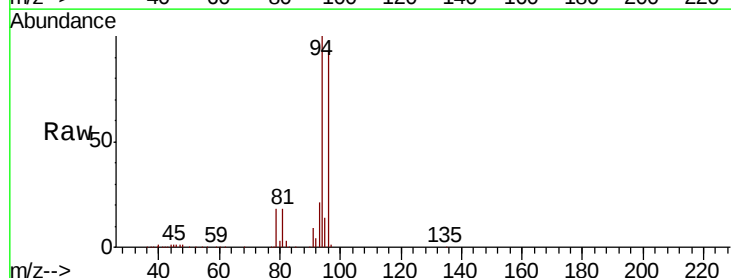
Acq: 23 May 2019 13:16

Tgt Ion: 94 Resp: 416734

Ion Ratio Lower Upper

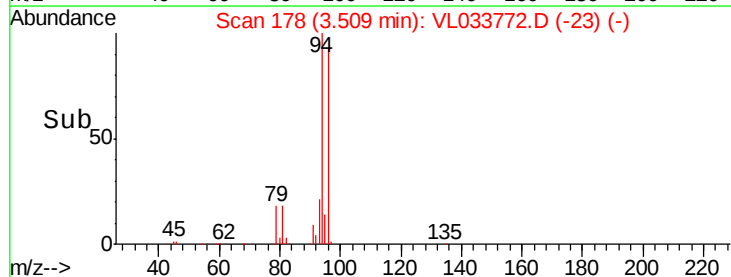
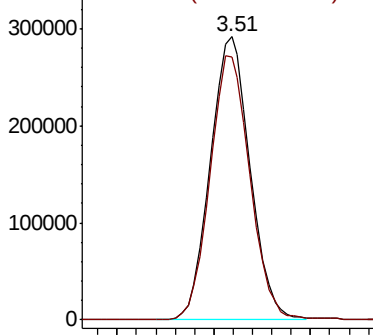
94 100

96 92.8 73.6 110.4

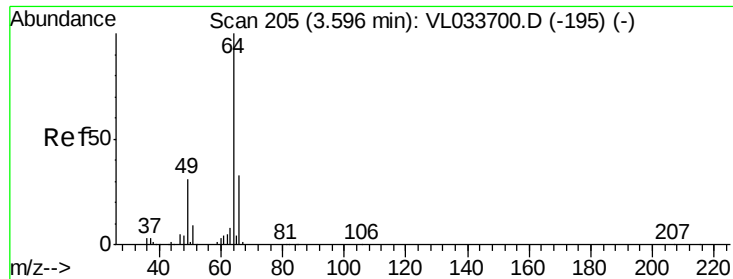


Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0



Time-->



#7

Chloroethane

Concen: 11.310 ppbv

RT: 3.59 min Scan# 204

Delta R.T. -0.00 min

Lab File: VL033772.D

Acq: 23 May 2019 13:16

Instrument :

MSVOA_L

ClientSampleId :

VL0523ABS01DUP

Tot Ion: 64 Resp: 246802

Ion Ratio Lower Upper

64 100

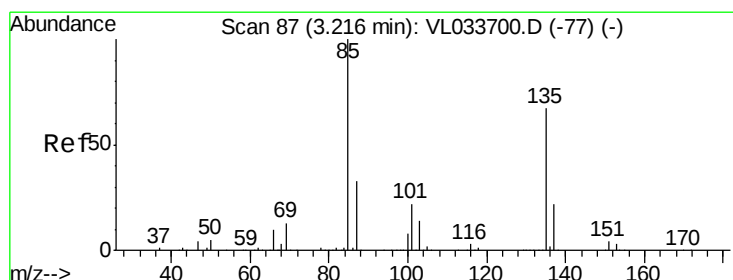
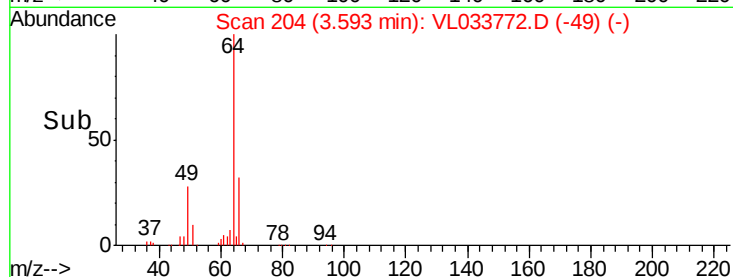
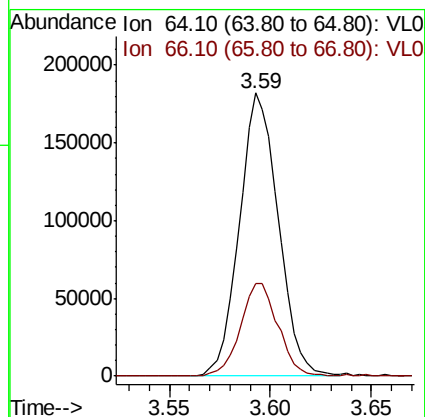
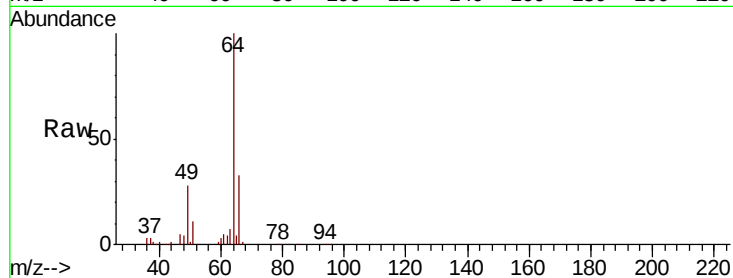
66 32.7 26.6 40.0

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#8

Dichlorotetrafluoroethane

Concen: 10.634 ppbv

RT: 3.21 min Scan# 86

Delta R.T. -0.00 min

Lab File: VL033772.D

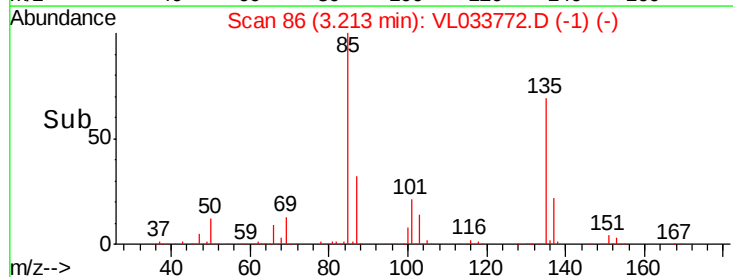
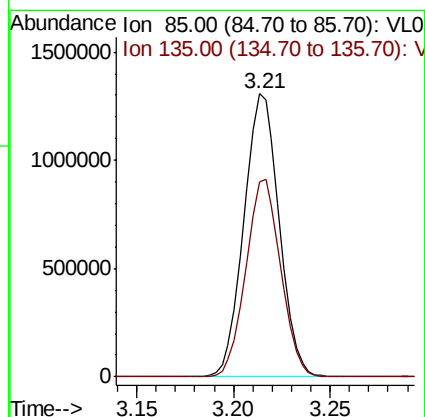
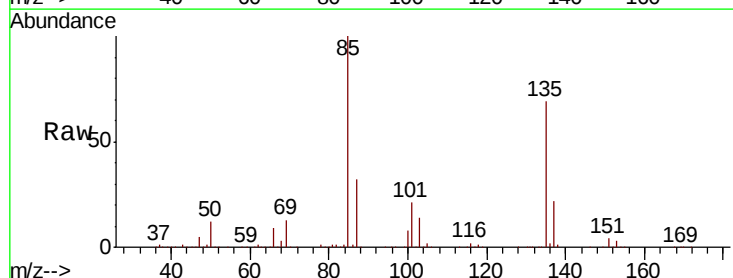
Acq: 23 May 2019 13:16

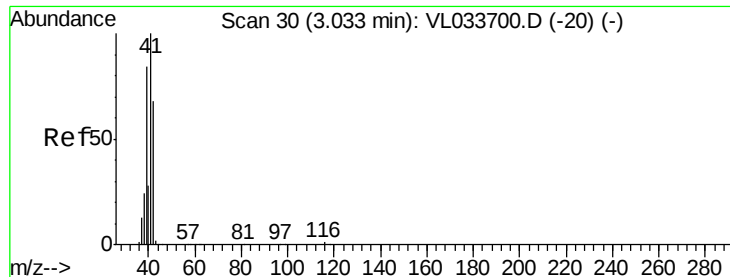
Tgt Ion: 85 Resp: 1662322

Ion Ratio Lower Upper

85 100

135 69.2 54.5 81.7





#9

Propene

Concen: 11.092 ppbv

RT: 3.03 min Scan# 29

Delta R.T. -0.00 min

Lab File: VL033772.D

Acq: 23 May 2019 13:16

Instrument :

MSVOA_L

ClientSampleId :

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Tot Ion: 41 Resp: 497215

Ion Ratio Lower Upper

41 100

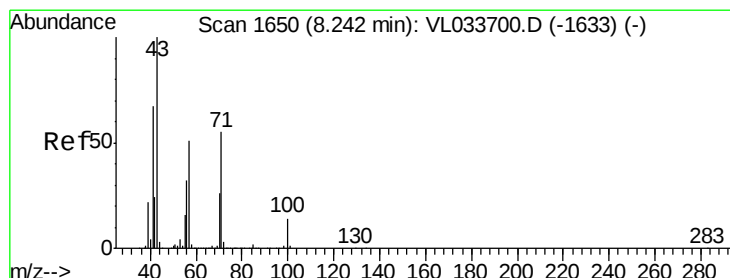
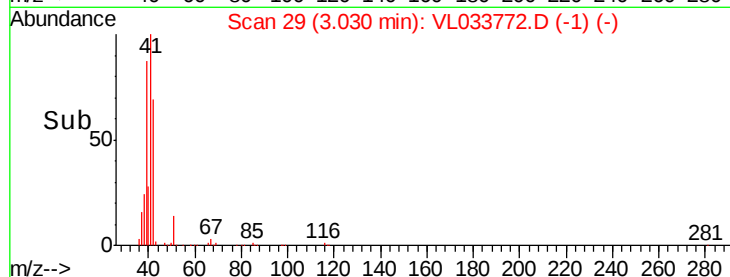
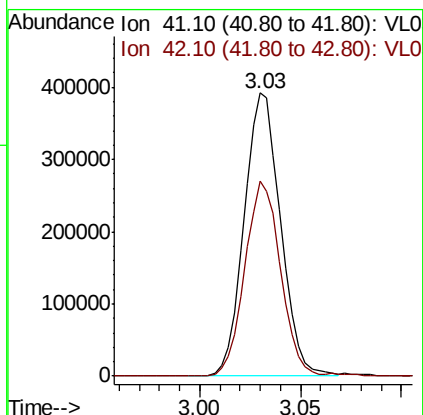
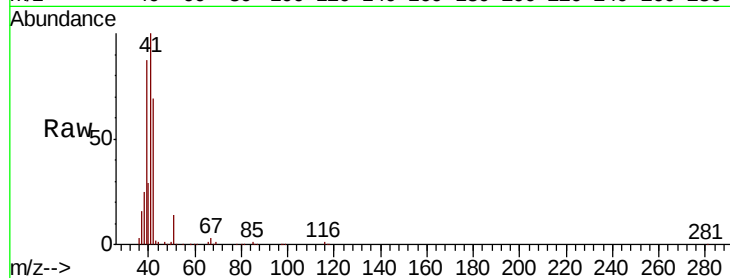
42 68.4 56.1 84.1

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#10

Heptane

Concen: 10.552 ppbv

RT: 8.24 min Scan# 1650

Delta R.T. 0.00 min

Lab File: VL033772.D

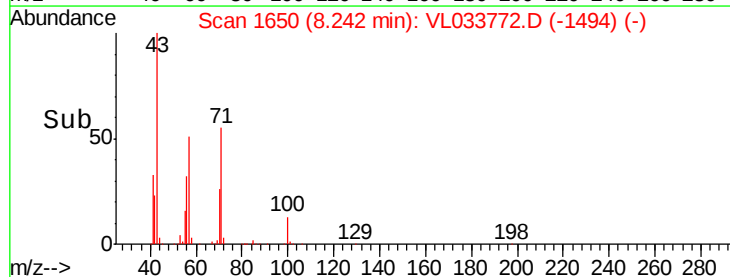
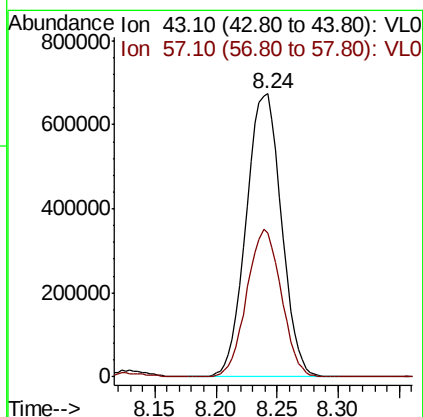
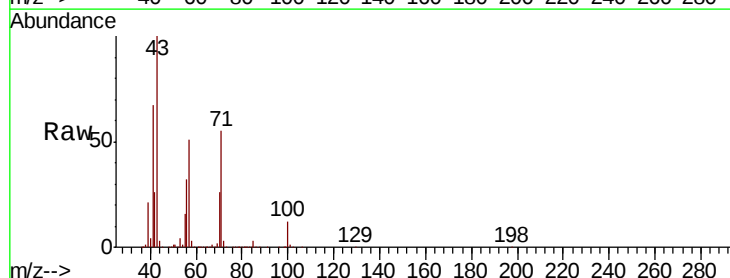
Acq: 23 May 2019 13:16

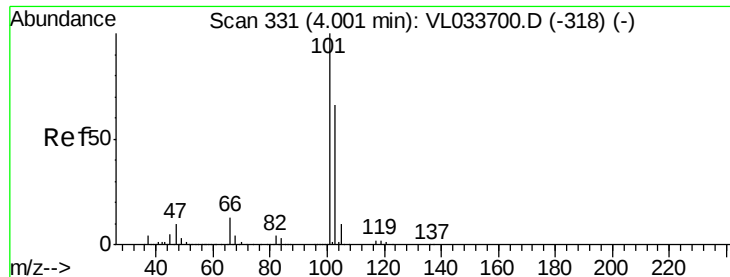
Tgt Ion: 43 Resp: 1339541

Ion Ratio Lower Upper

43 100

57 51.4 41.4 62.0





#11

Trichlorofluoromethane

Concen: 10.561 ppbv

RT: 4.00 min Scan# 330

Delta R.T. -0.00 min

Lab File: VL033772.D

Acq: 23 May 2019 13:16

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Tot Ion:101 Resp: 1954381

Ion Ratio Lower Upper

101 100

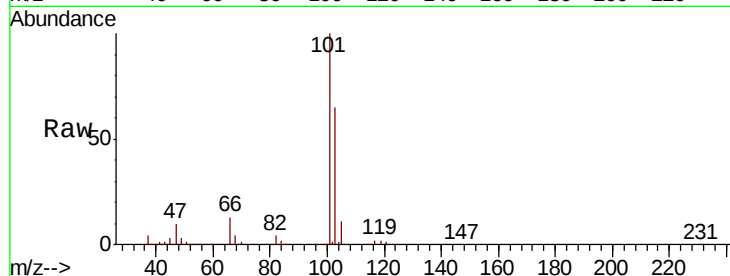
103 64.9 52.6 78.8

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Abundance Ion 101.00 (100.70 to 101.70): V

1500000 Ion 103.00 (102.70 to 103.70): V

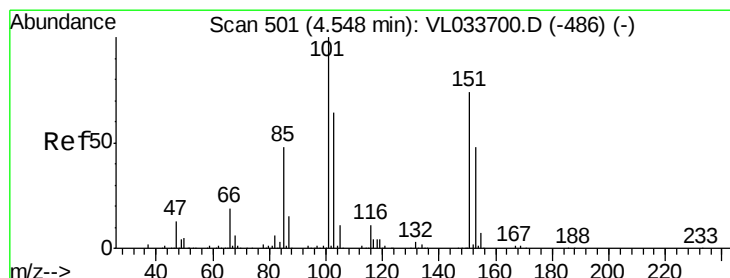
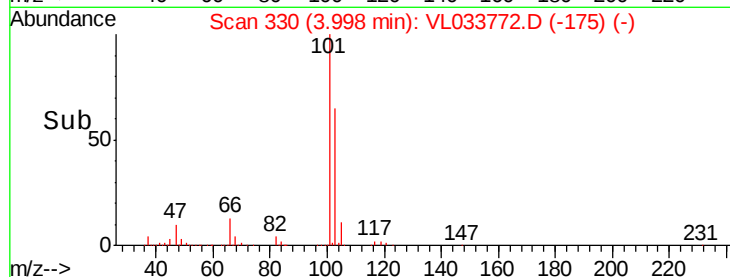
4.00

1000000

500000

0

Time-->



#12

1,1,2-Trichlorotrifluoroethane

Concen: 10.289 ppbv

RT: 4.54 min Scan# 500

Delta R.T. -0.00 min

Lab File: VL033772.D

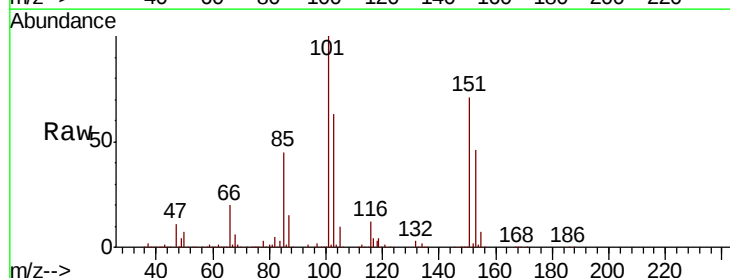
Acq: 23 May 2019 13:16

Tgt Ion:101 Resp: 1329648

Ion Ratio Lower Upper

101 100

151 72.3 58.2 87.4



Abundance Ion 101.00 (100.70 to 101.70): V

800000 Ion 151.00 (150.70 to 151.70): V

4.54

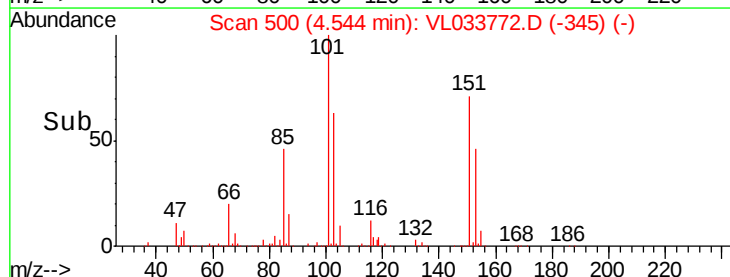
600000

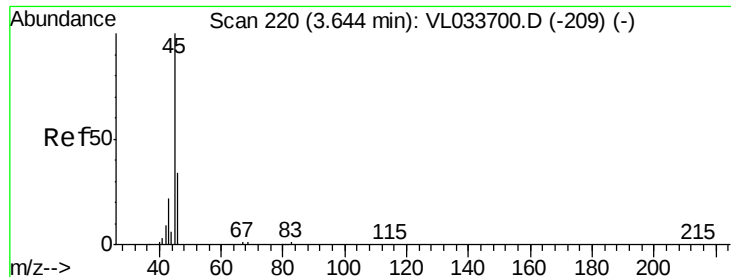
400000

200000

0

Time-->





#13

Ethanol

Concen: 6.072 ppbv

RT: 3.64 min Scan# 220

Delta R.T. 0.00 min

Lab File: VL033772.D

Acq: 23 May 2019 13:16

Instrument :

MSVOA_L

ClientSampleId :

VL0523ABS01DUP

Tot Ion: 45 Resp: 87969

Ion Ratio Lower Upper

45 100

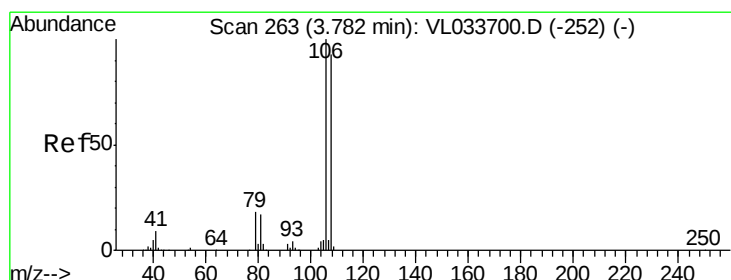
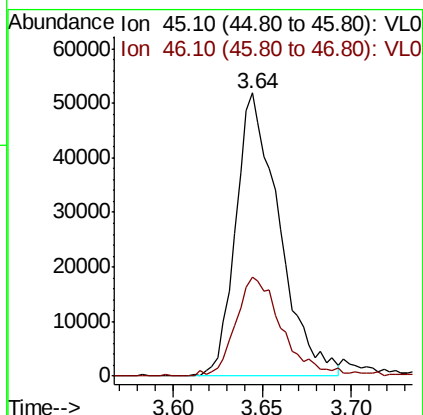
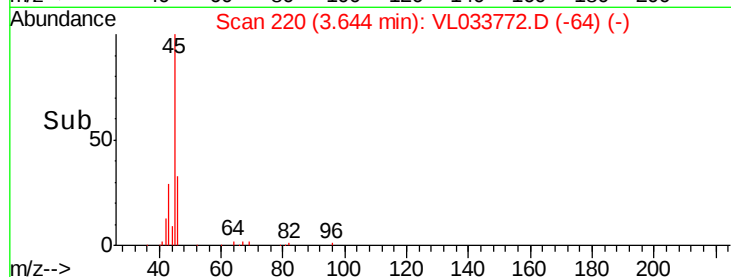
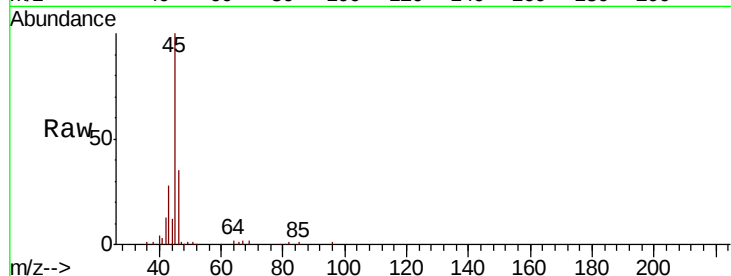
46 38.5 14.8 59.0

Manual Integrations

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#14

Bromoethene

Concen: 11.397 ppbv

RT: 3.78 min Scan# 263

Delta R.T. 0.00 min

Lab File: VL033772.D

Acq: 23 May 2019 13:16

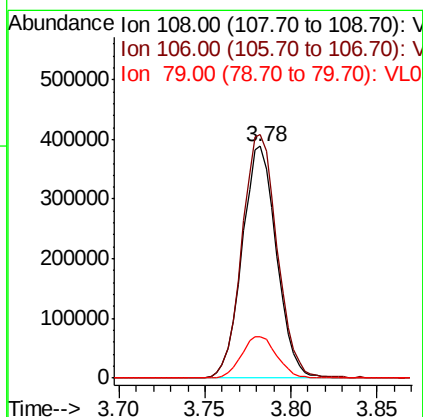
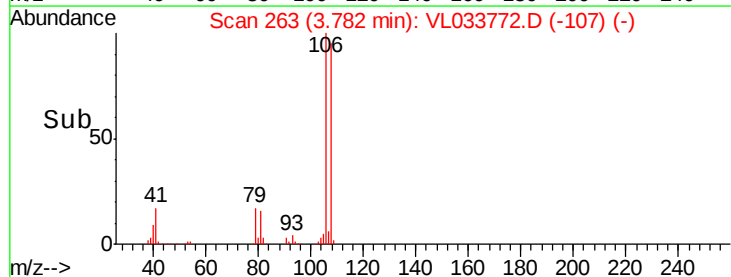
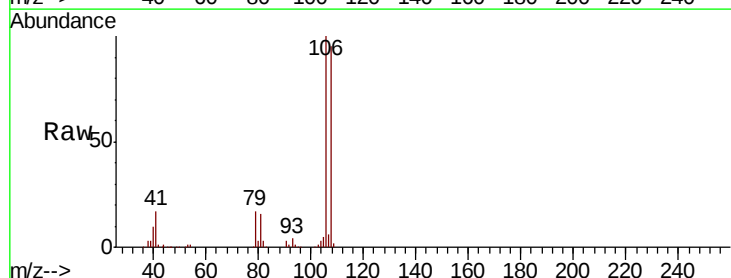
Tgt Ion: 108 Resp: 541490

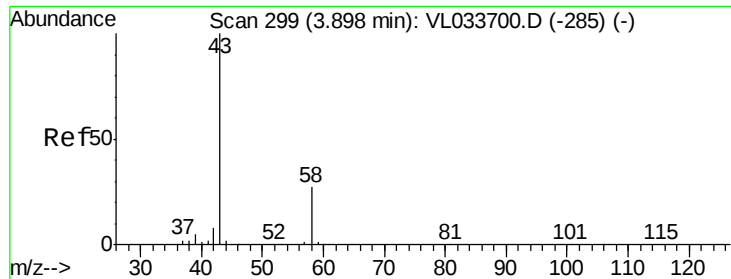
Ion Ratio Lower Upper

108 100

106 107.6 86.5 129.7

79 18.4 15.1 22.7





#15

Acetone

Concen: 9.508 ppbv

RT: 3.89 min Scan# 298

Delta R.T. -0.00 min

Lab File: VL033772.D

Acq: 23 May 2019 13:16

Instrument :

MSVOA_L

ClientSampleId :

VL0523ABS01DUP

Tot Ion: 43 Resp: 1213735

Ion Ratio Lower Upper

43 100

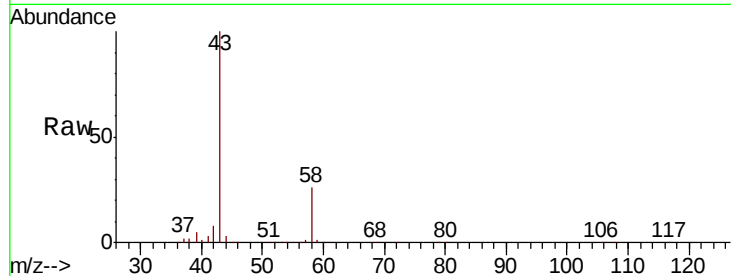
58 26.4 21.3 31.9

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

3.89

800000

600000

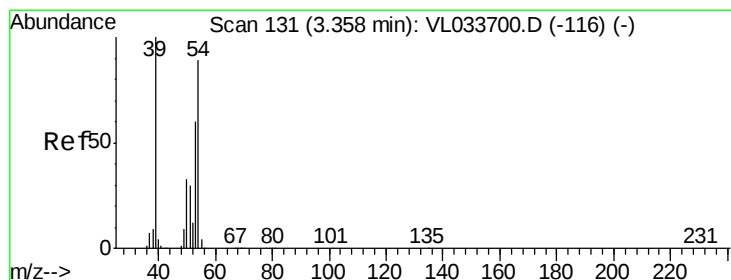
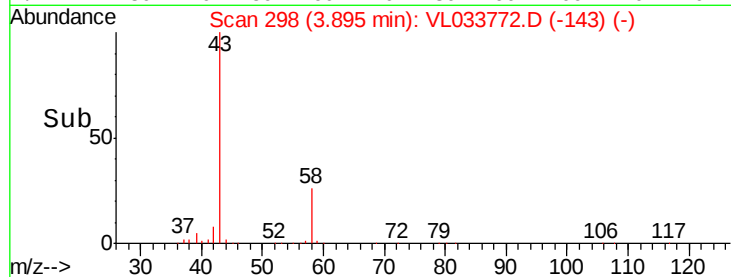
400000

200000

0

Time-->

3.85 3.90 3.95



#16

1,3-Butadiene

Concen: 11.178 ppbv

RT: 3.36 min Scan# 131

Delta R.T. 0.00 min

Lab File: VL033772.D

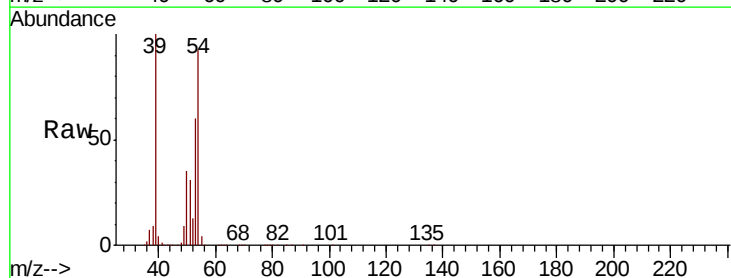
Acq: 23 May 2019 13:16

Tgt Ion: 39 Resp: 568223

Ion Ratio Lower Upper

39 100

54 87.9 69.0 103.6



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.36

500000

400000

300000

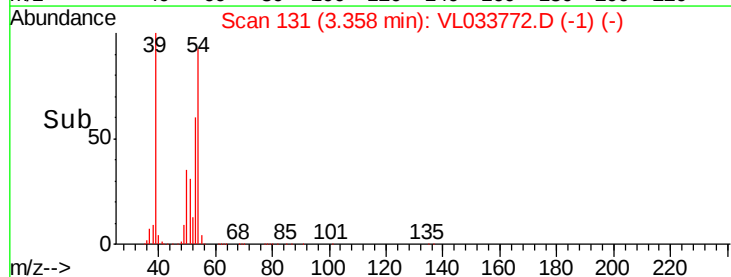
200000

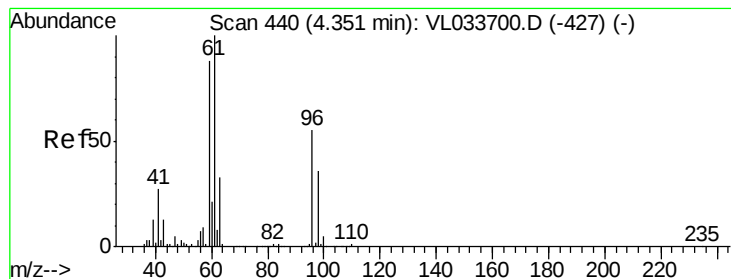
100000

0

Time-->

3.30 3.35 3.40





#17

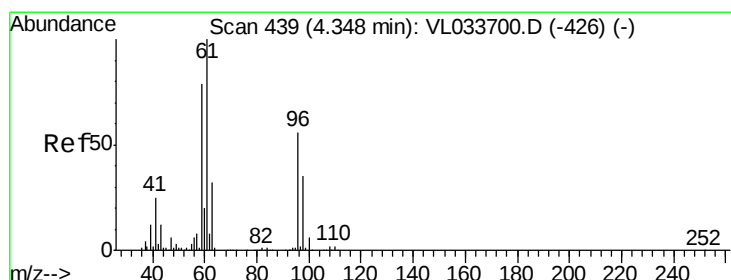
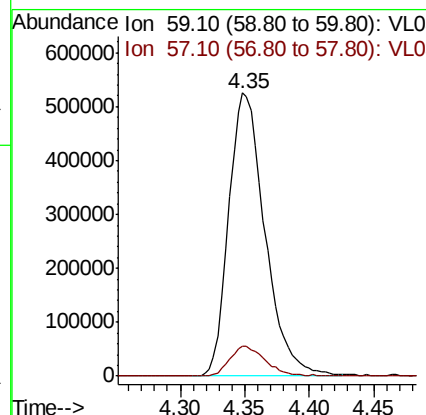
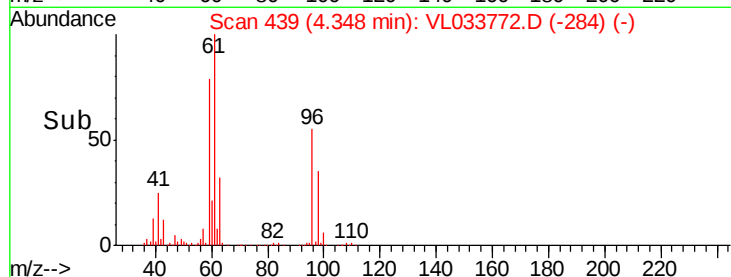
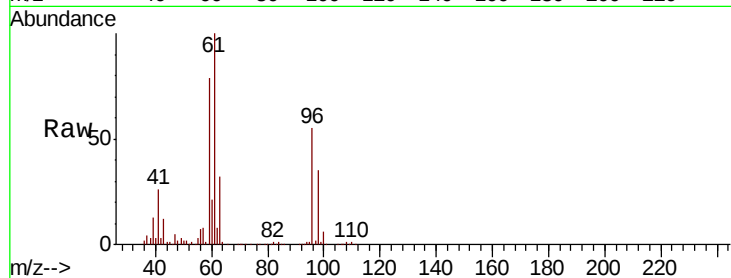
tert-Butyl alcohol
Concen: 9.935 ppbv
RT: 4.35 min Scan# 439
Delta R.T. -0.00 min
Lab File: VL033772.D
Acq: 23 May 2019 13:16

Instrument :
MSVOA_L
ClientSampleId :
VL0523ABS01DUP

Tot Ion: 59 Resp: 1025529
Ion Ratio Lower Upper
59 100
57 10.6 8.4 12.6

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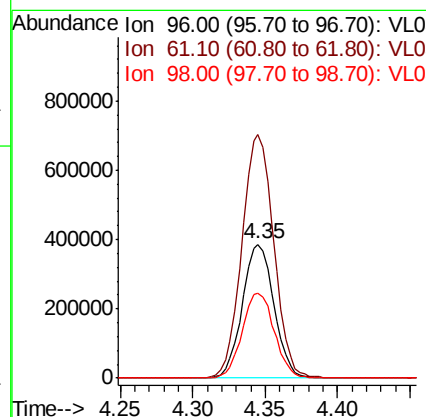
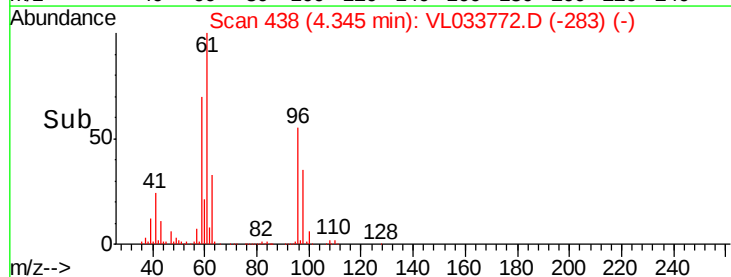
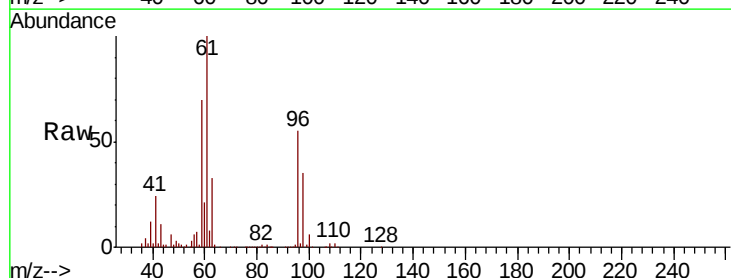
MMDadoda
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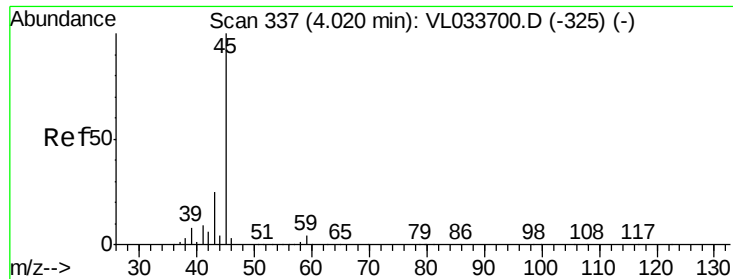


#18

1,1-Dichloroethene
Concen: 10.747 ppbv
RT: 4.35 min Scan# 438
Delta R.T. -0.00 min
Lab File: VL033772.D
Acq: 23 May 2019 13:16

Tgt Ion: 96 Resp: 586226
Ion Ratio Lower Upper
96 100
61 181.7 143.1 214.7
98 63.4 49.5 74.3





#19

Isopropyl Alcohol

Concen: 8.973 ppbv

RT: 4.02 min Scan# 336

Delta R.T. -0.00 min

Lab File: VL033772.D

Acq: 23 May 2019 13:16

Instrument :

MSVOA_L

ClientSampleId :

VL0523ABS01DUP

Tot Ion: 45 Resp: 738597

Ion Ratio Lower Upper

45 100

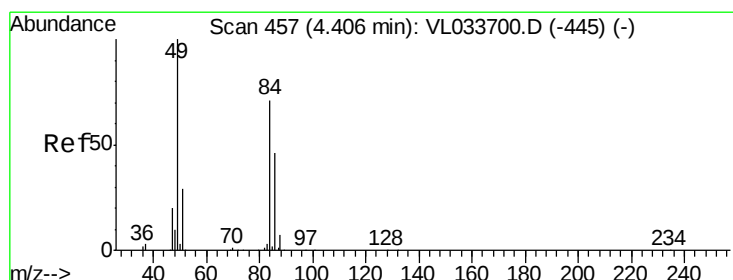
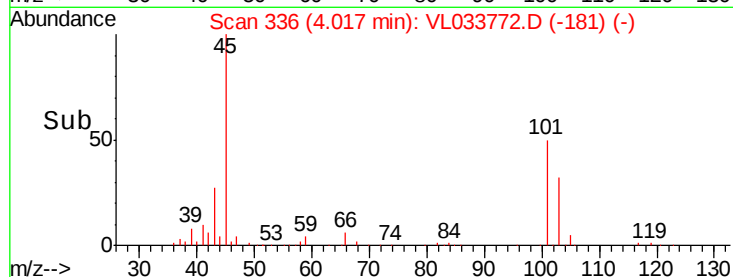
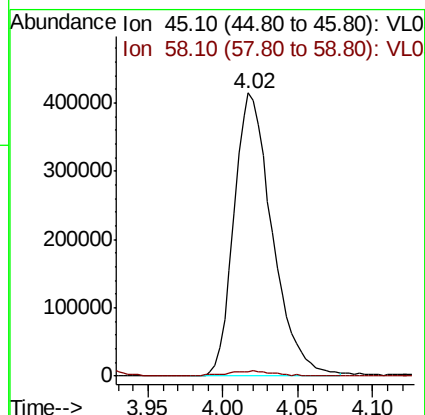
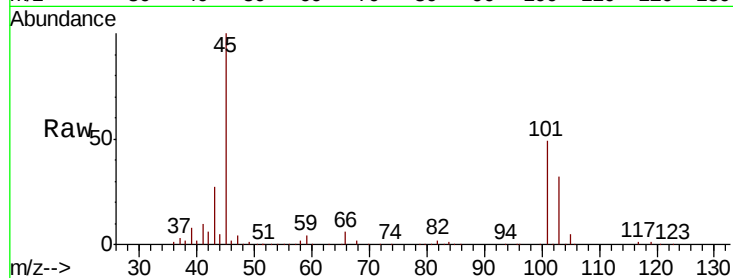
58 2.2 1.6 2.4

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#20

Methylene Chloride

Concen: 10.064 ppbv

RT: 4.40 min Scan# 456

Delta R.T. -0.00 min

Lab File: VL033772.D

Acq: 23 May 2019 13:16

Tgt Ion: 84 Resp: 494630

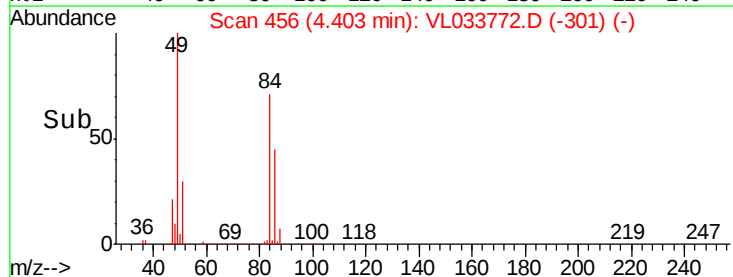
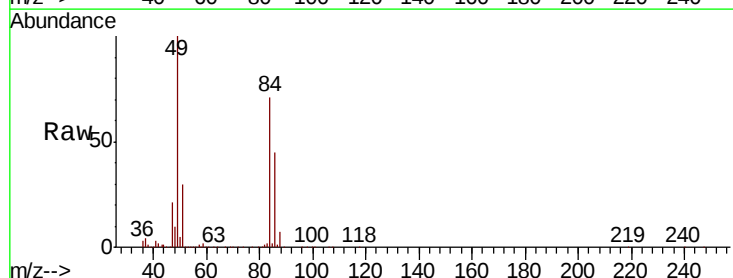
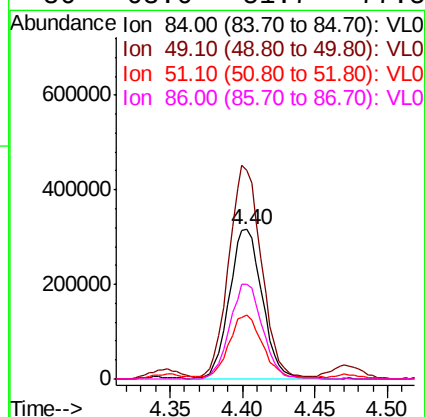
Ion Ratio Lower Upper

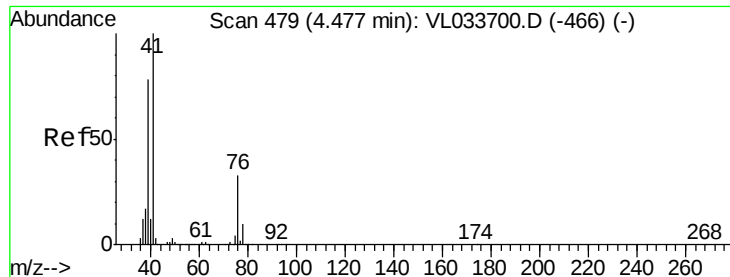
84 100

49 139.0 112.8 169.2

51 41.0 33.4 50.0

86 63.6 51.7 77.5





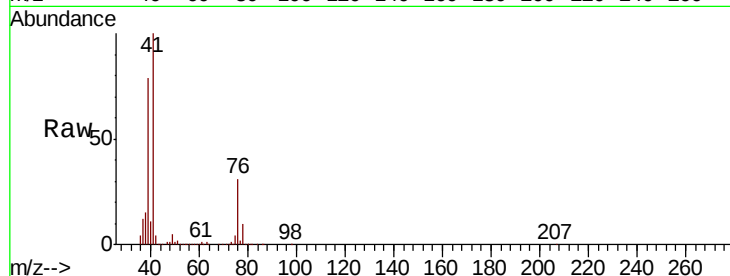
#21
Allvl Chloride
Concen: 10.754 ppbv
RT: 4.47 min Scan# 478
Delta R.T. -0.00 min
Lab File: VL033772.D
Acq: 23 May 2019 13:16

Instrument :
MSVOA_L
ClientSampleId :
VL0523ABS01DUP

Tot Ion	Ratio	Resp	Lower	Upper
41	100	856255		
76	32.5		25.9	38.9
39	80.3		64.6	97.0

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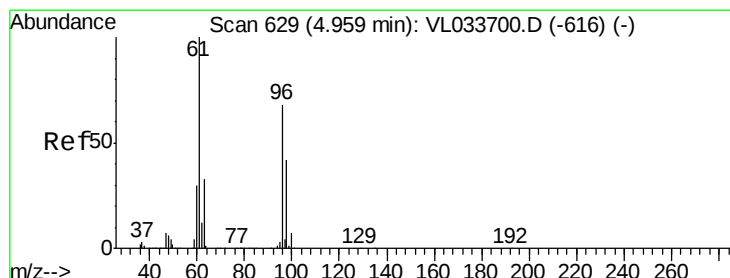
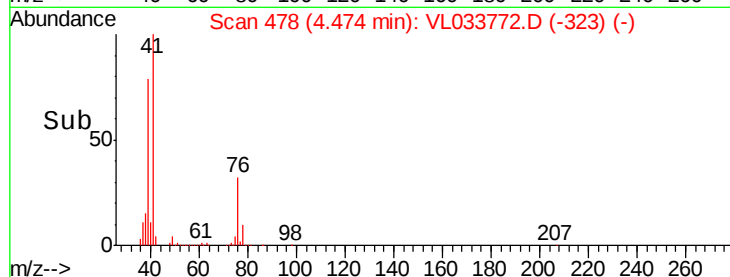
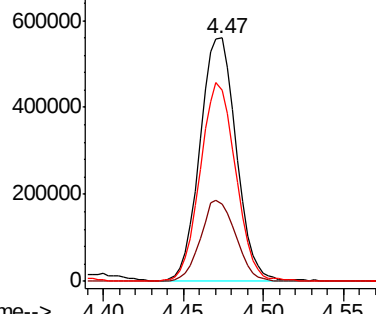


Abundance

Ion 41.10 (40.80 to 41.80): VL0

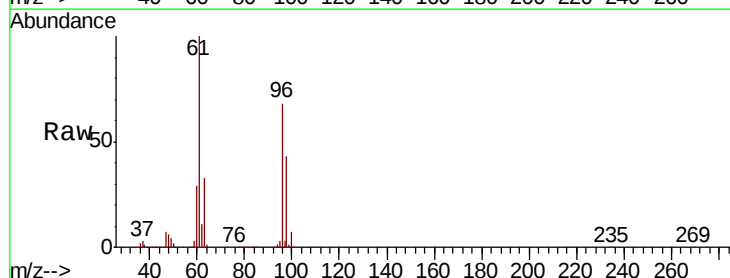
Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0



#22
trans-1,2-Dichloroethene
Concen: 10.807 ppbv
RT: 4.96 min Scan# 628
Delta R.T. -0.00 min
Lab File: VL033772.D
Acq: 23 May 2019 13:16

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	604258		
61	147.4		116.8	175.2
98	63.4		49.4	74.0

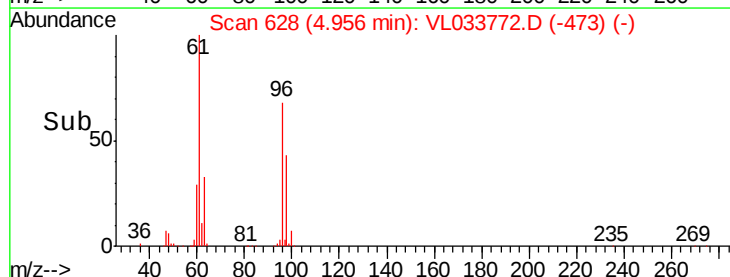
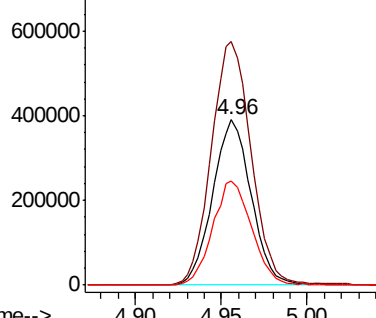


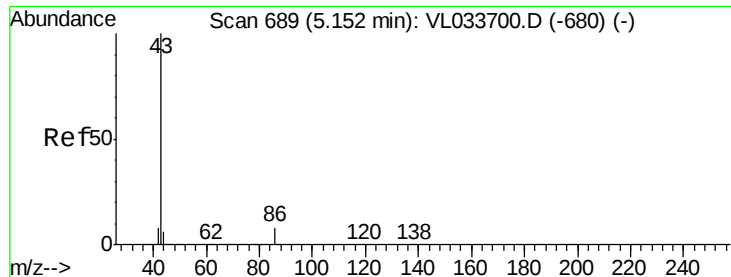
Abundance

Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 11.337 ppbv

RT: 5.15 min Scan# 688

Delta R.T. -0.00 min

Lab File: VL033772.D

Acq: 23 May 2019 13:16

Instrument :

MSVOA_L

ClientSampleId :

VL0523ABS01DUP

Tot Ion: 43 Resp: 1908224

Ion Ratio Lower Upper

43 100

86 8.0 6.0 9.0

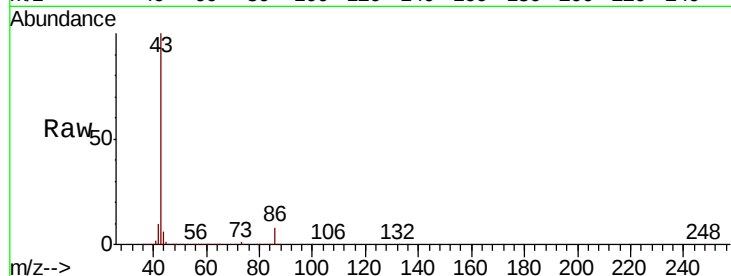
42 10.0 7.5 11.3

44 5.5 4.4 6.6

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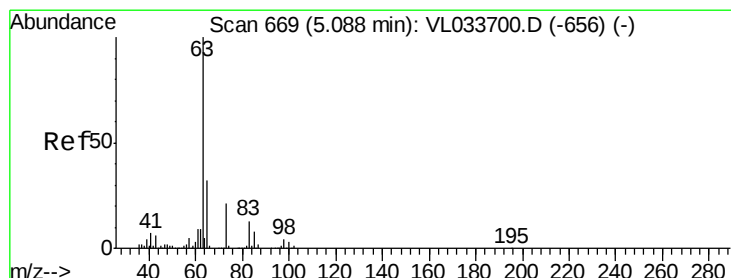
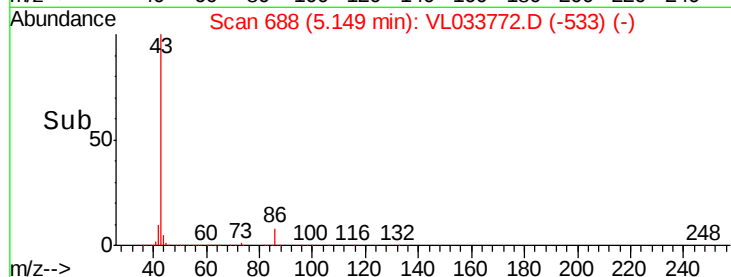
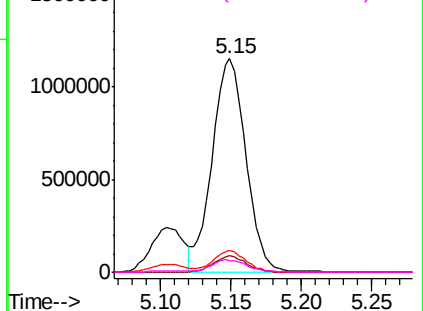


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 10.411 ppbv

RT: 5.08 min Scan# 668

Delta R.T. -0.00 min

Lab File: VL033772.D

Acq: 23 May 2019 13:16

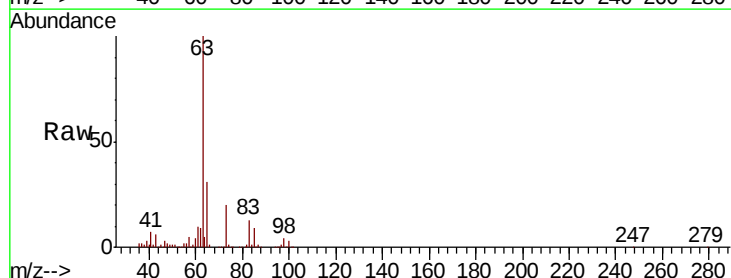
Tgt Ion: 63 Resp: 1332070

Ion Ratio Lower Upper

63 100

98 4.2 1.8 5.5

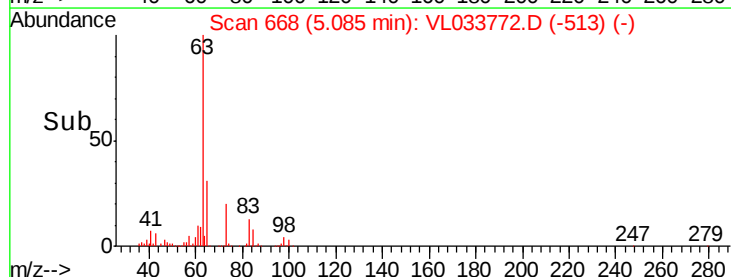
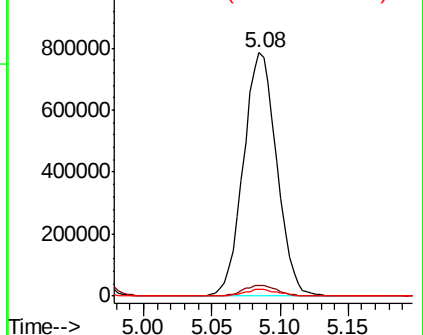
100 2.8 1.4 4.2

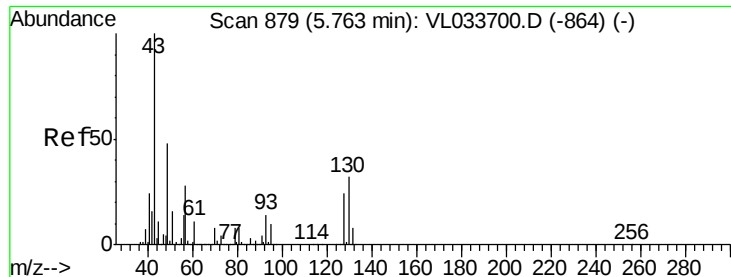


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 10.239 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

Lab File: VL033772.D

Acq: 23 May 2019 13:16

Instrument :

MSVOA_L

ClientSampleId :

VL0523ABS01DUP

Tot Ion: 43 Resp: 2296033

Ion Ratio Lower Upper

43 100

45 10.0 7.9 11.9

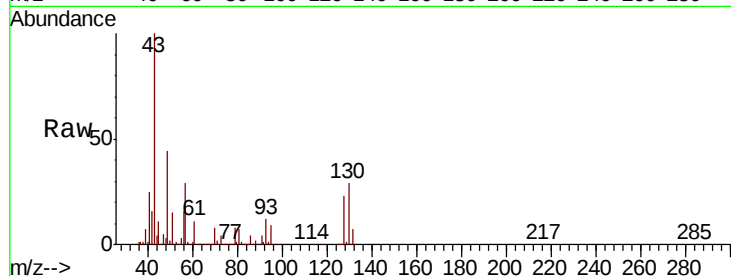
61 9.8 7.7 11.5

70 7.2 5.8 8.6

Manual Integrations
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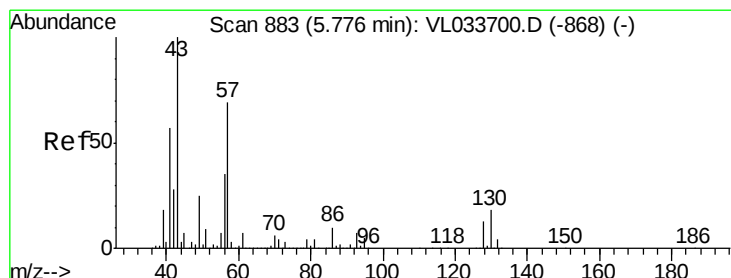
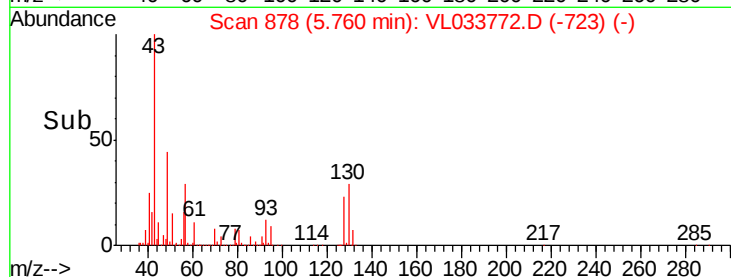
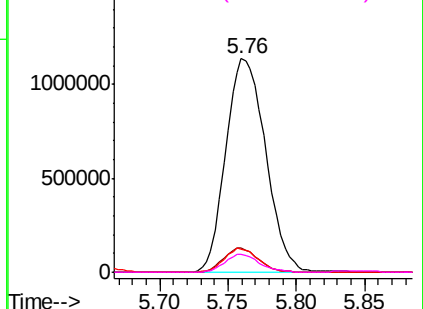


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 10.312 ppbv

RT: 5.77 min Scan# 882

Delta R.T. -0.00 min

Lab File: VL033772.D

Acq: 23 May 2019 13:16

Tgt Ion: 57 Resp: 994102

Ion Ratio Lower Upper

57 100

41 87.9 69.8 104.6

43 232.7 181.8 272.6

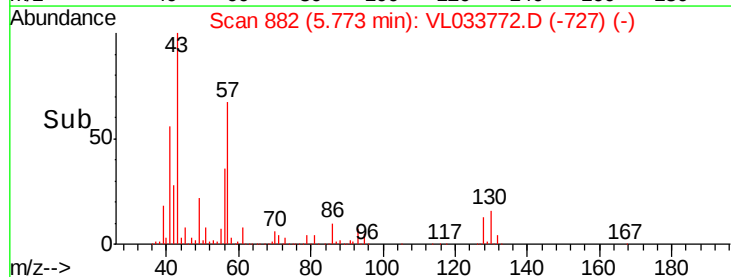
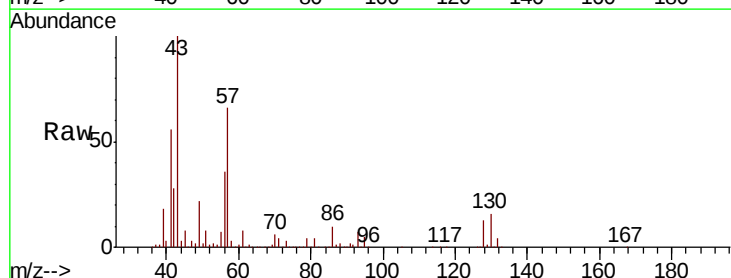
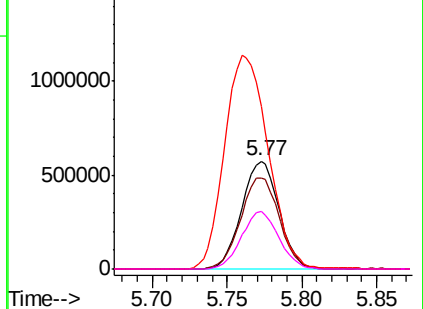
56 53.5 42.1 63.1

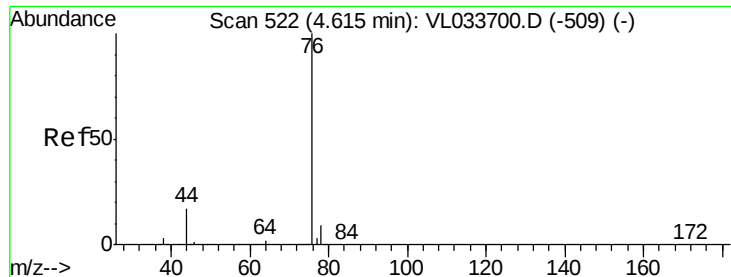
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 11.216 ppbv

RT: 4.62 min Scan# 522

Delta R.T. 0.00 min

Lab File: VL033772.D

Acq: 23 May 2019 13:16

Instrument :

MSVOA_L

ClientSampleId :

VL0523ABS01DUP

Tot Ion: 76 Resp: 1483475

Ion Ratio Lower Upper

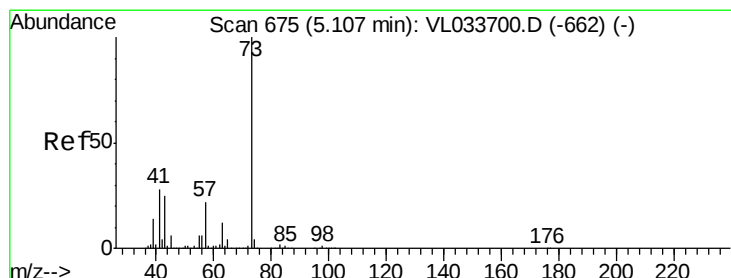
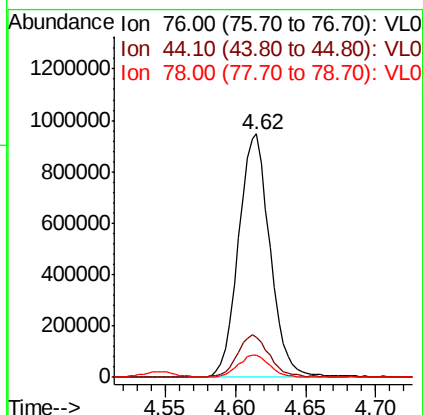
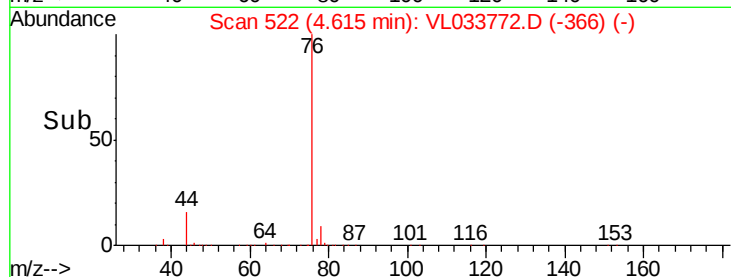
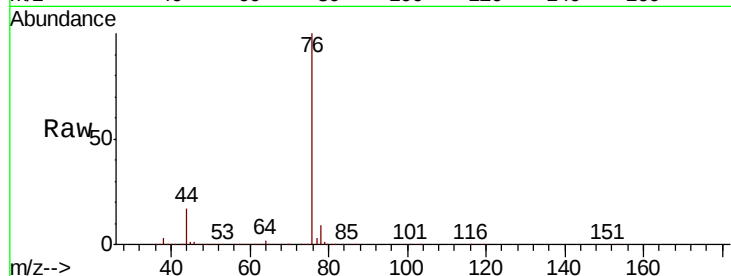
76 100

44 17.1 13.8 20.8

78 9.1 7.4 11.0

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#28

Methyl tert-Butyl Ether

Concen: 10.910 ppbv

RT: 5.11 min Scan# 675

Delta R.T. 0.00 min

Lab File: VL033772.D

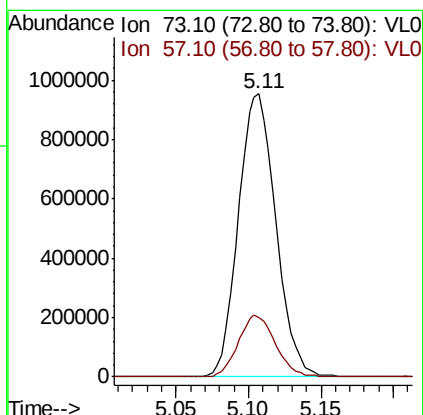
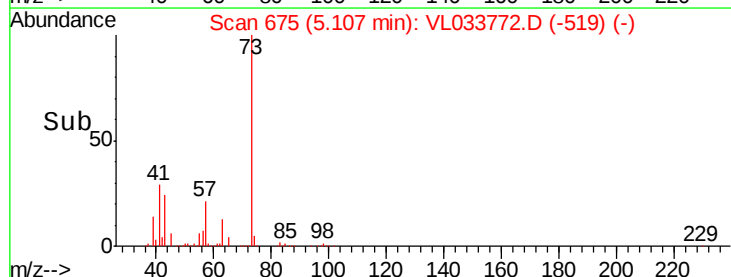
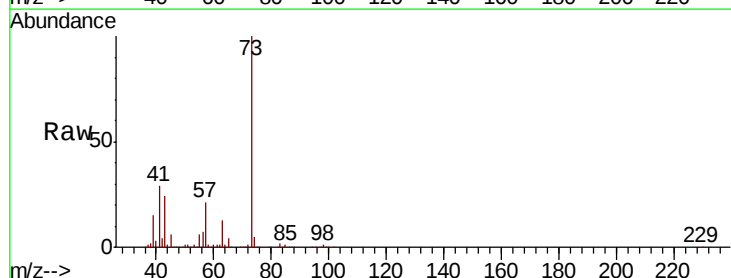
Acq: 23 May 2019 13:16

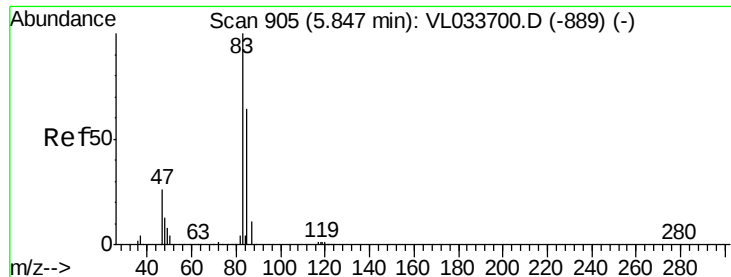
Tgt Ion: 73 Resp: 1714626

Ion Ratio Lower Upper

73 100

57 21.7 17.4 26.2





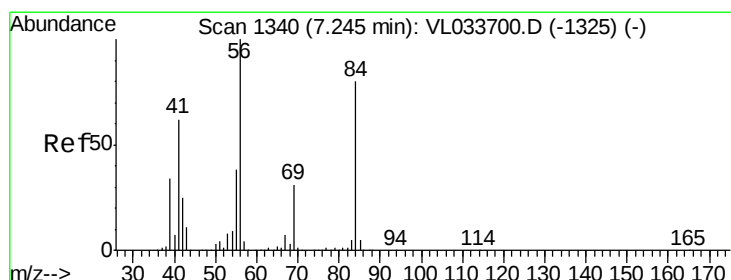
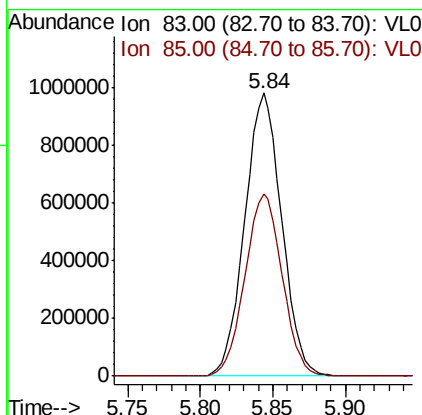
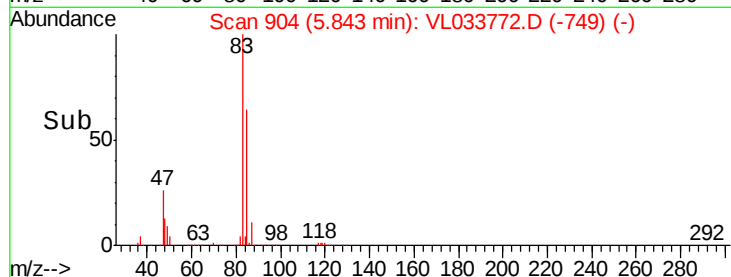
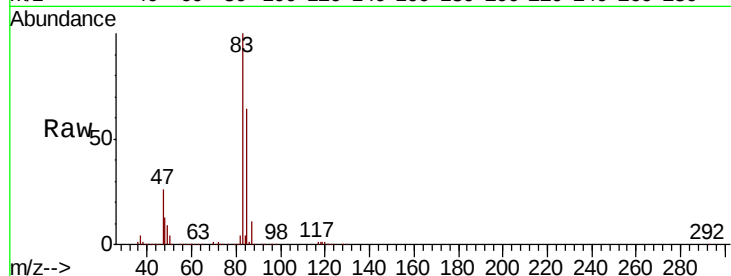
#29
Chloroform
Concen: 9.808 ppbv
RT: 5.84 min Scan# 904
Delta R.T. -0.00 min
Lab File: VL033772.D
Acq: 23 May 2019 13:16

Instrument :
MSVOA_L
ClientSampleId :
VL0523ABS01DUP

Tot Ion: 83 Resp: 1741776
Ion Ratio Lower Upper
83 100
85 64.4 51.5 77.3

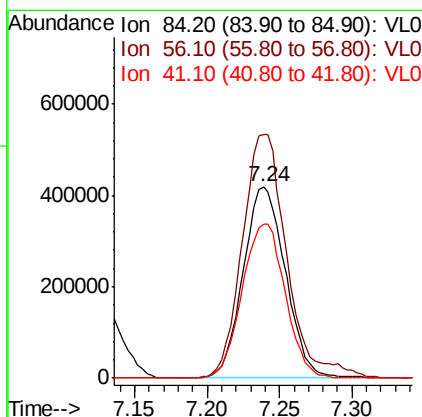
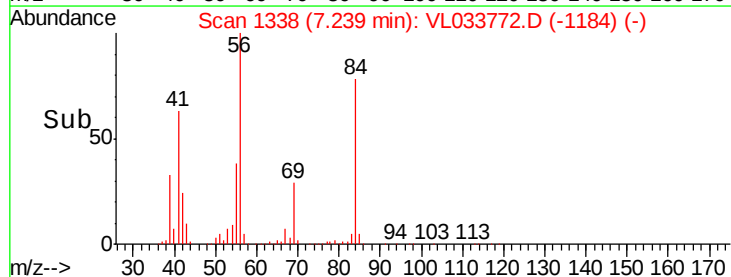
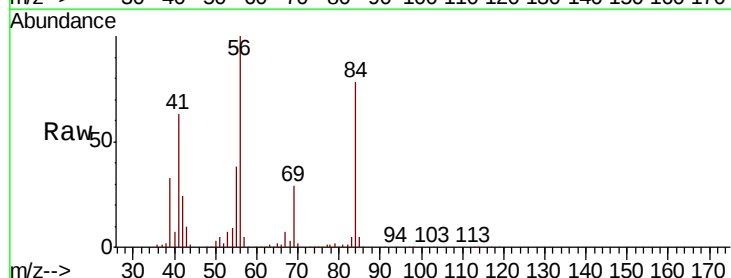
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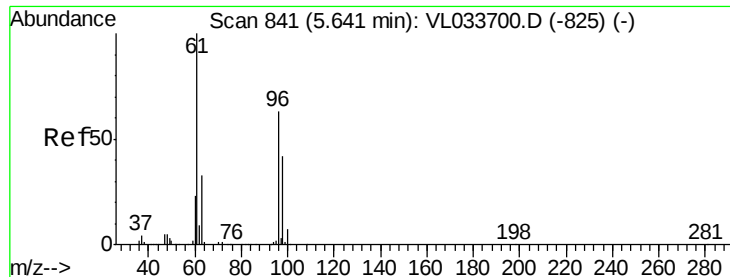
MMDadoda
5/28/2019 2:53:20 AM



#30
Cyclohexane
Concen: 10.439 ppbv
RT: 7.24 min Scan# 1338
Delta R.T. -0.01 min
Lab File: VL033772.D
Acq: 23 May 2019 13:16

Tgt Ion: 84 Resp: 846089
Ion Ratio Lower Upper
84 100
56 135.0 107.7 161.5
41 82.6 66.0 99.0





#31

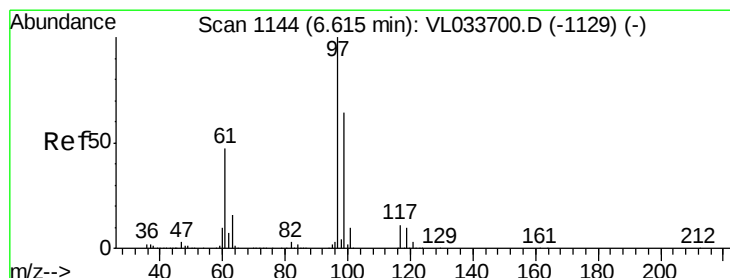
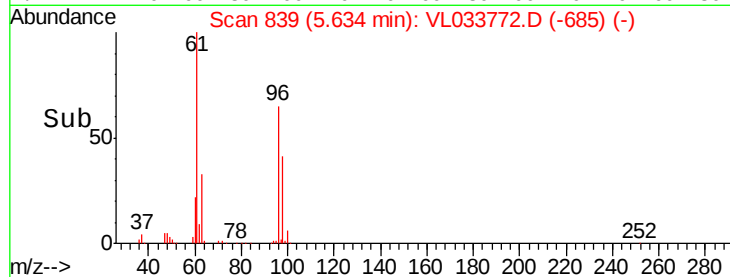
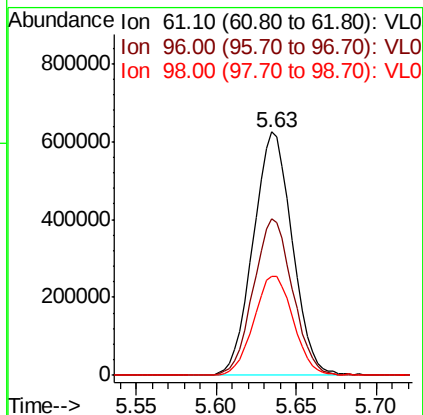
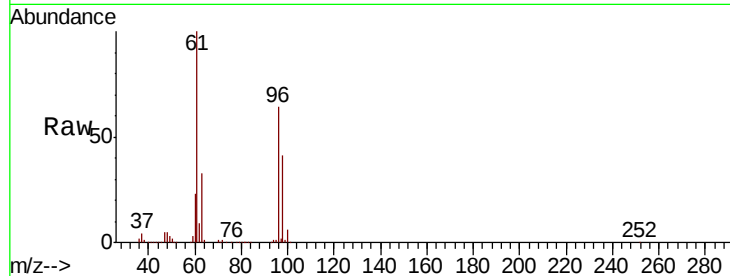
cis-1,2-Dichloroethene
Concen: 10.981 ppbv
RT: 5.63 min Scan# 839
Delta R.T. -0.01 min
Lab File: VL033772.D
Acq: 23 May 2019 13:16

Instrument :
MSVOA_L
ClientSampleId :
VL0523ABS01DUP

Tot Ion	Ratio	Lower	Upper
61	100		
96	64.4	50.8	76.2
98	40.5	33.3	49.9

Manual Integrations
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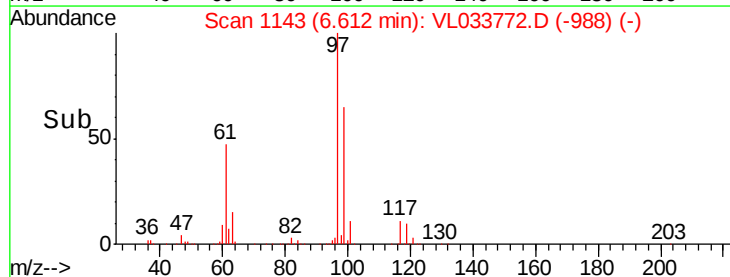
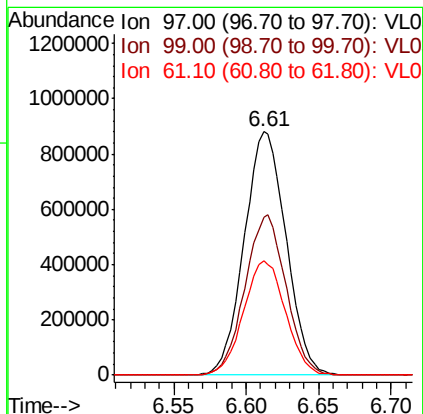
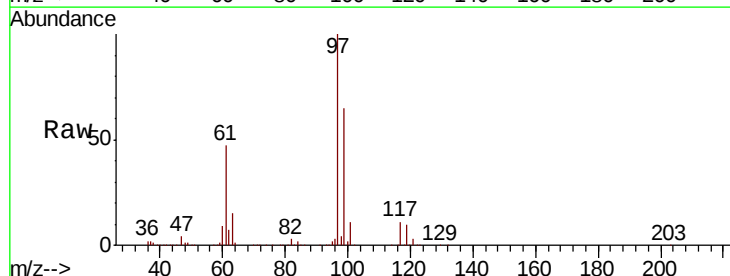
MMDadoda
5/28/2019 2:53:20 AM

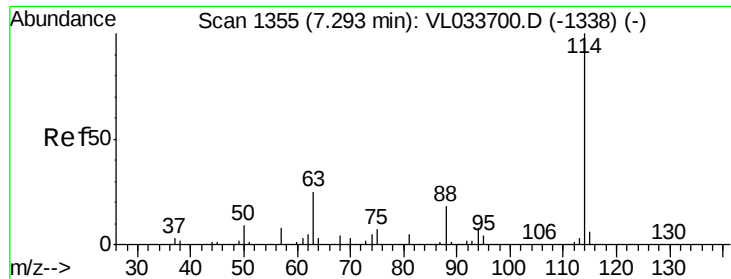


#32

1,1,1-Trichloroethane
Concen: 9.980 ppbv
RT: 6.61 min Scan# 1143
Delta R.T. -0.00 min
Lab File: VL033772.D
Acq: 23 May 2019 13:16

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.6	51.5	77.3
61	47.4	37.8	56.8





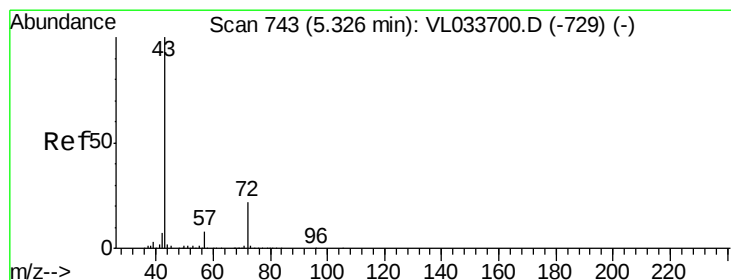
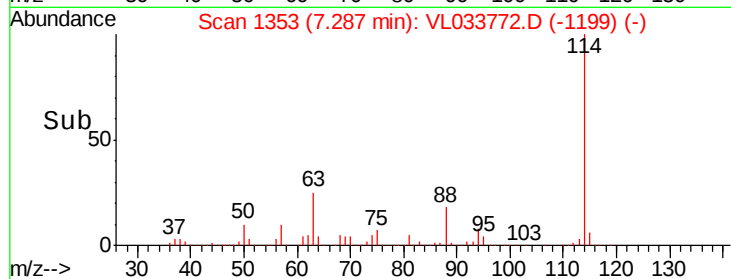
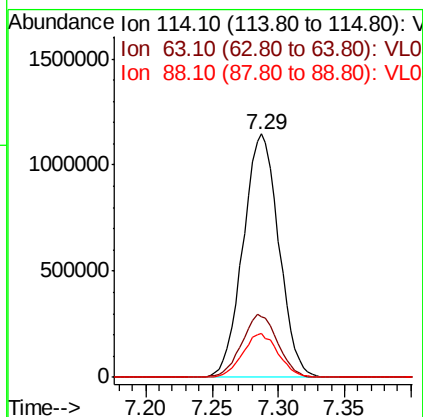
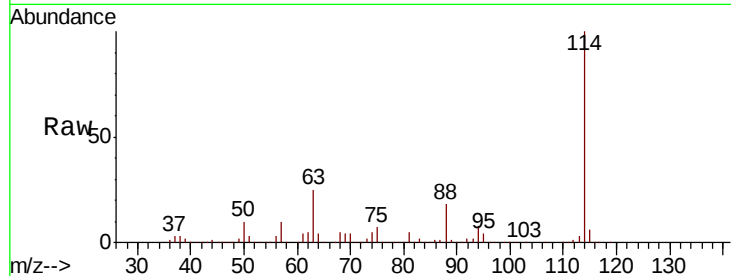
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.01 min
 Lab File: VL033772.D
 Acq: 23 May 2019 13:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0523ABS01DUP

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.3	20.9	31.3
88	17.9	14.3	21.5

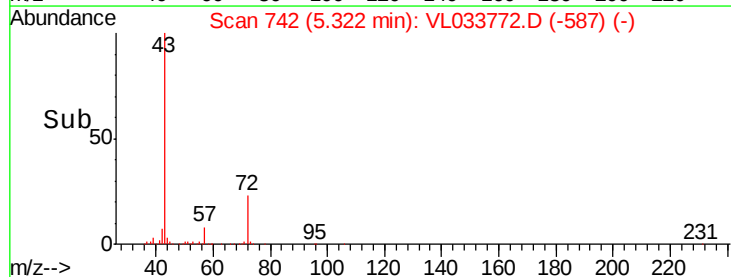
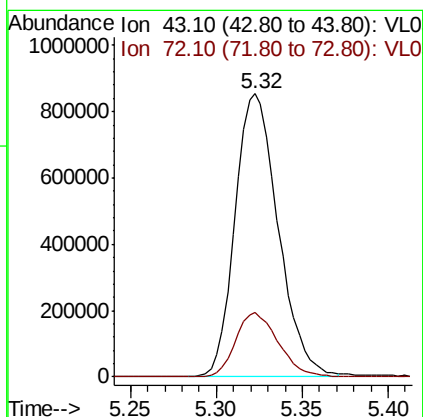
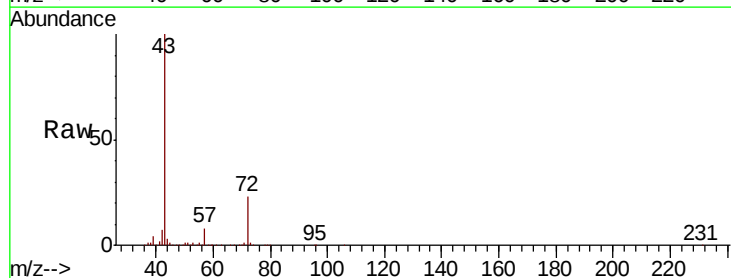
Manual Integrations
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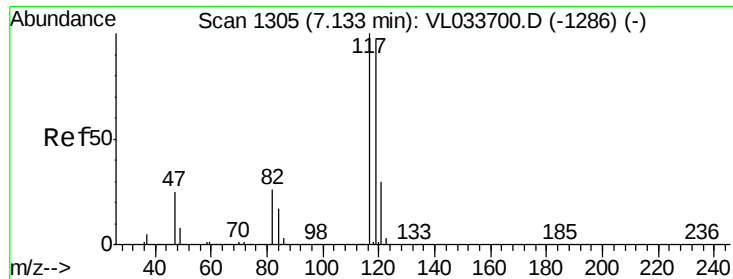
MMDadoda
 5/28/2019 2:53:20 AM



#34
 2-Butanone
 Concen: 11.146 ppbv
 RT: 5.32 min Scan# 742
 Delta R.T. -0.00 min
 Lab File: VL033772.D
 Acq: 23 May 2019 13:16

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.7	17.8	26.6





#35

Carbon Tetrachloride

Concen: 10.910 ppbv

RT: 7.13 min Scan# 1303

Delta R.T. -0.01 min

Lab File: VL033772.D

Acq: 23 May 2019 13:16

Instrument :

MSVOA_L

ClientSampleId :

VL0523ABS01DUP

Tot Ion:117 Resp: 1882094

Ion Ratio Lower Upper

117 100

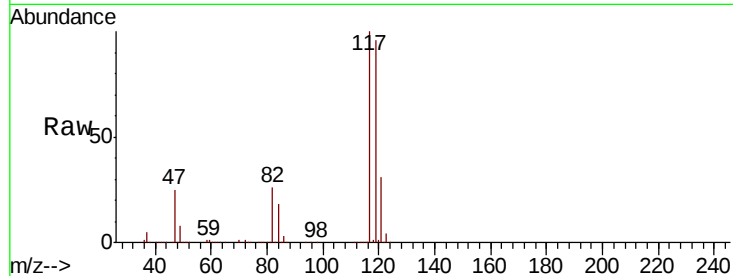
119 96.2 77.2 115.8

121 30.7 24.1 36.1

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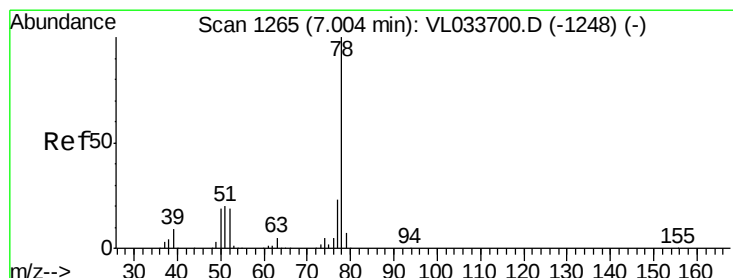
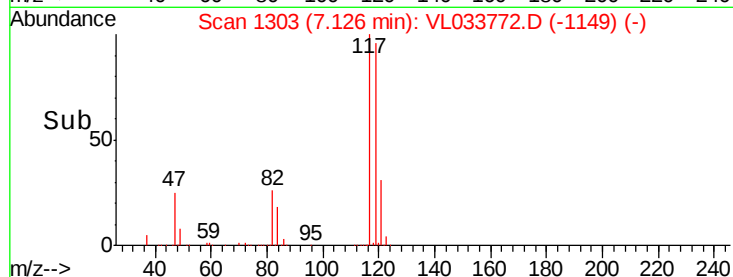
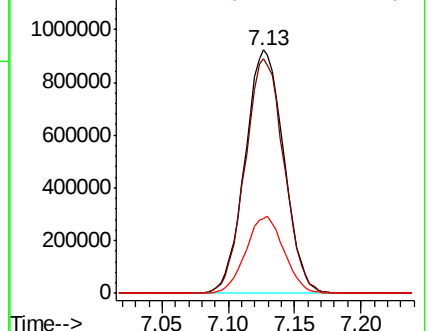
5/28/2019 2:53:20 AM



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 10.640 ppbv

RT: 7.00 min Scan# 1264

Delta R.T. -0.00 min

Lab File: VL033772.D

Acq: 23 May 2019 13:16

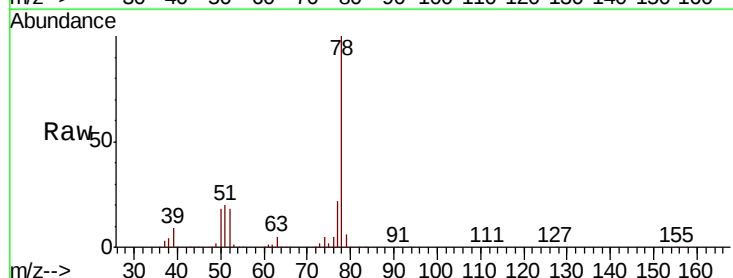
Tgt Ion: 78 Resp: 2084332

Ion Ratio Lower Upper

78 100

77 22.3 18.4 27.6

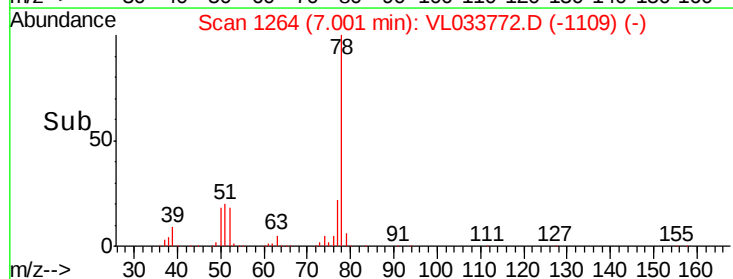
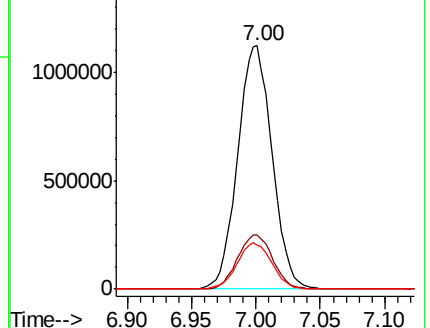
50 18.0 15.5 23.3

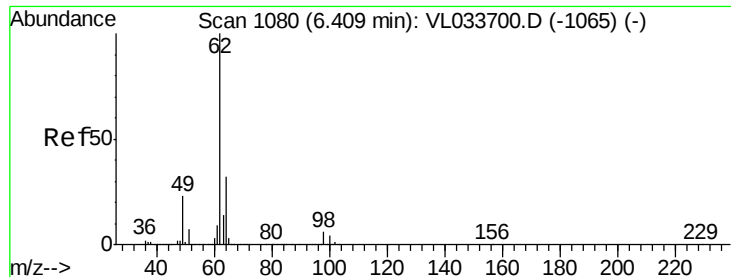


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 10.493 ppbv

RT: 6.41 min Scan# 1079

Delta R.T. -0.00 min

Lab File: VL033772.D

Acq: 23 May 2019 13:16

Instrument :

MSVOA_L

ClientSampleId :

VL0523ABS01DUP

Tot Ion: 62 Resp: 1325957

Ion Ratio Lower Upper

62 100

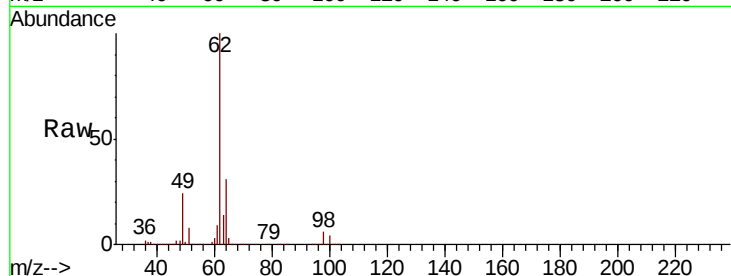
98 5.6 4.5 6.7

Manual Integrations

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

6.41

800000

600000

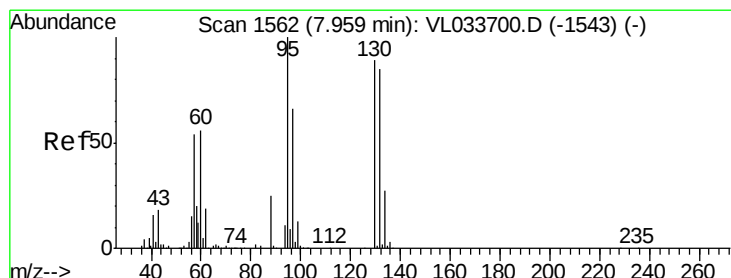
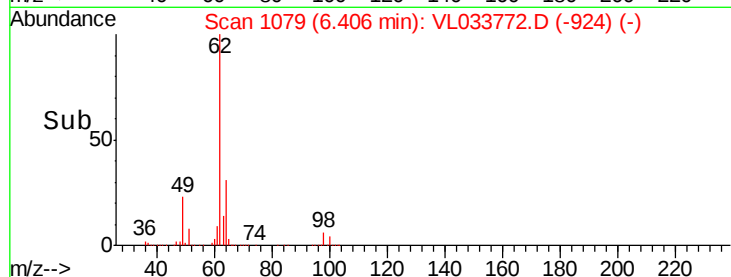
400000

200000

0

6.35 6.40 6.45

Time-->



#38

Trichloroethene

Concen: 12.489 ppbv

RT: 7.95 min Scan# 1560

Delta R.T. -0.01 min

Lab File: VL033772.D

Acq: 23 May 2019 13:16

Tgt Ion:130 Resp: 907814

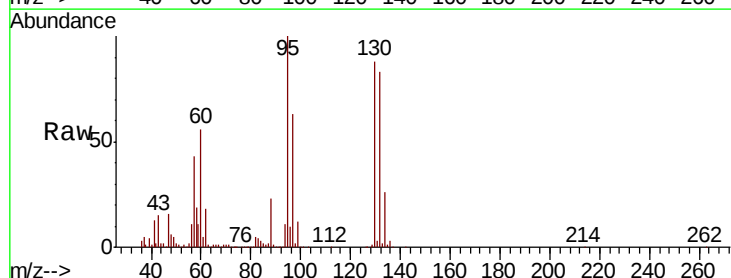
Ion Ratio Lower Upper

130 100

95 113.8 90.2 135.4

132 93.9 76.4 114.6

97 72.1 59.8 89.6



Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0

800000

600000

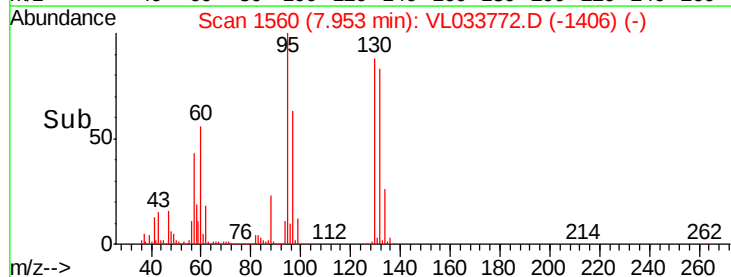
400000

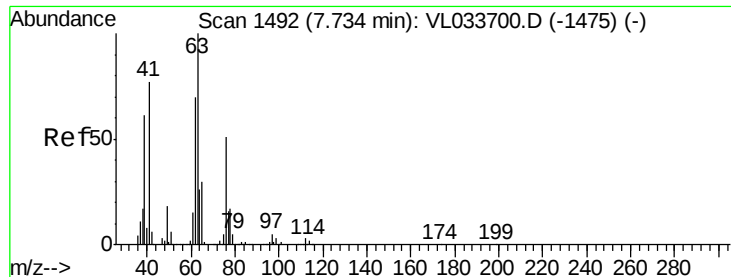
200000

0

7.90 7.95 8.00

Time-->





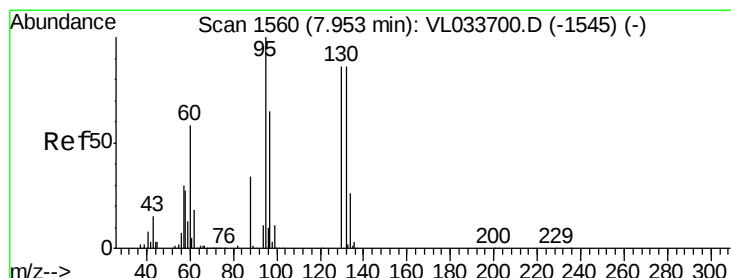
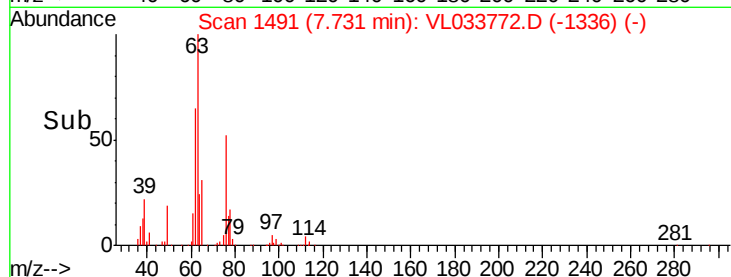
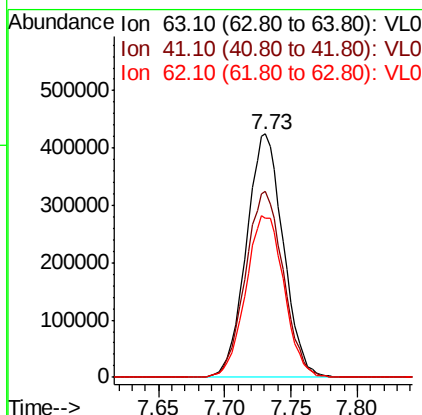
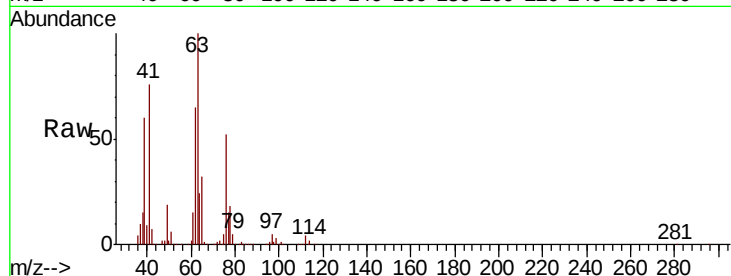
#39
 1,2-Dichloropropane
 Concen: 11.258 ppbv
 RT: 7.73 min Scan# 1491
 Delta R.T. -0.00 min
 Lab File: VL033772.D
 Acq: 23 May 2019 13:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0523ABS01DUP

Tot Ion	Ratio	Lower	Upper
63	100		
41	76.2	61.5	92.3
62	65.3	56.2	84.4

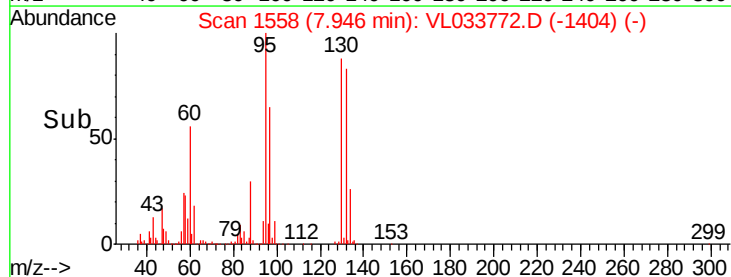
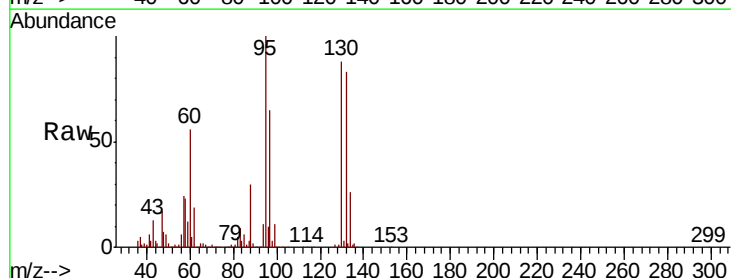
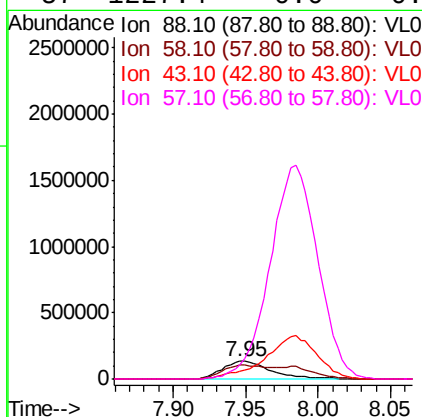
Manual Integrations
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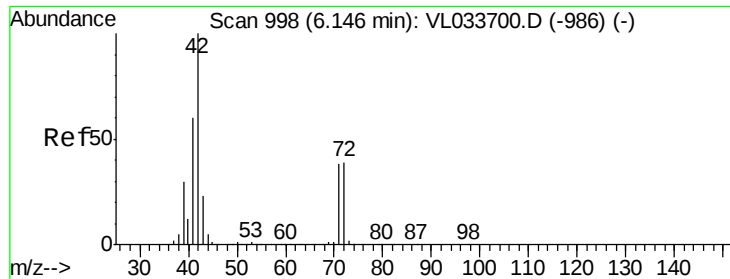
MMDadoda
 5/28/2019 2:53:20 AM



#40
 1,4-Dioxane
 Concen: 9.920 ppbv
 RT: 7.95 min Scan# 1558
 Delta R.T. -0.01 min
 Lab File: VL033772.D
 Acq: 23 May 2019 13:16

Tgt Ion	Ratio	Lower	Upper
88	100		
58	131.8	101.8	152.6
43	268.1	0.0	0.0#
57	1227.4	0.0	0.0#





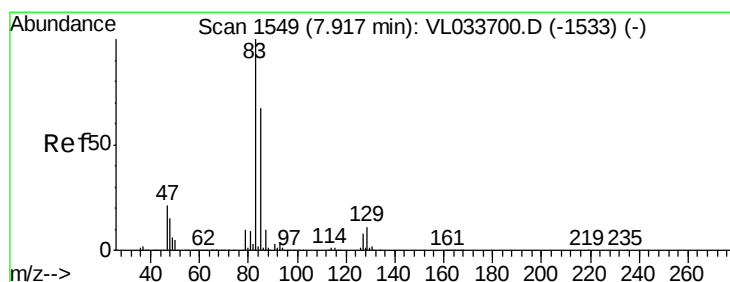
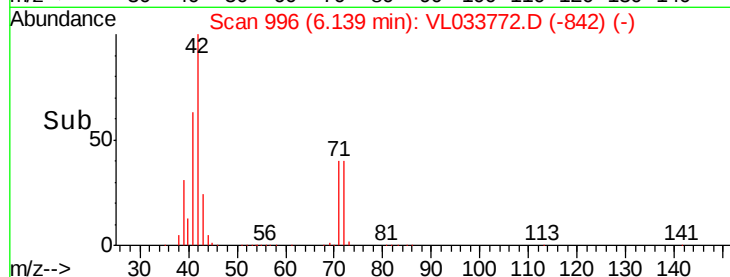
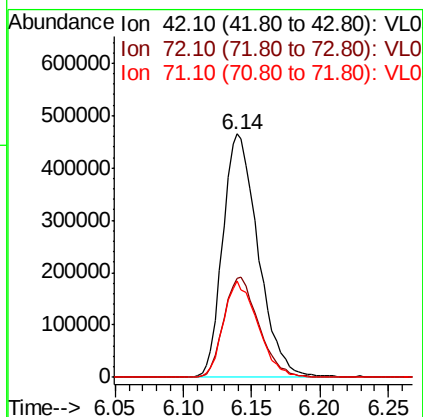
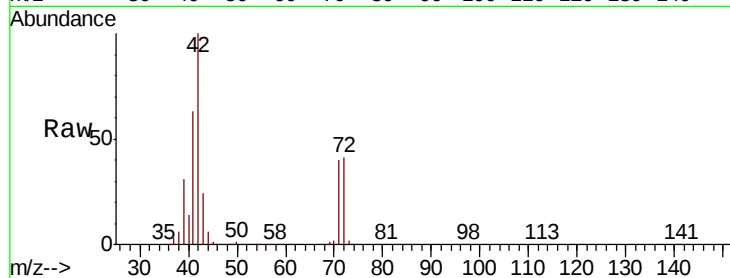
#41
Tetrahydrofuran
Concen: 11.216 ppbv
RT: 6.14 min Scan# 996
Delta R.T. -0.01 min
Lab File: VL033772.D
Acq: 23 May 2019 13:16

Instrument :
MSVOA_L
ClientSampleId :
VL0523ABS01DUP

Tot Ion	Ratio	Resp	Lower	Upper
42	100	838850		
72	40.8		32.0	48.0
71	38.7		30.4	45.6

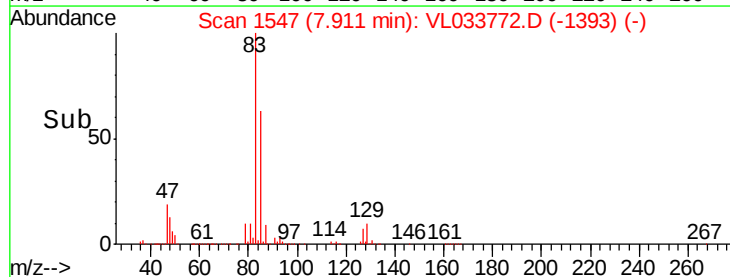
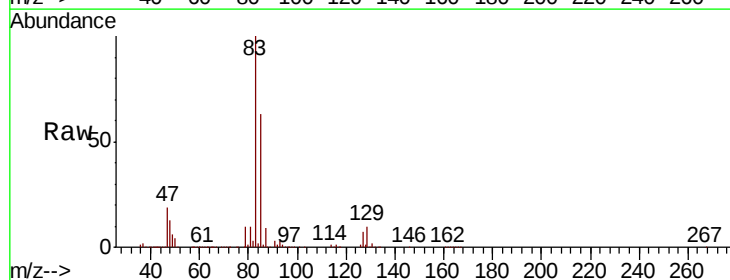
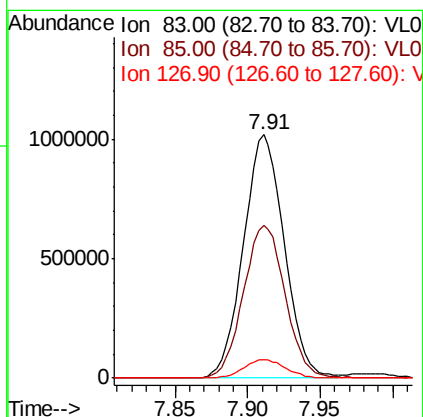
Manual Integrations
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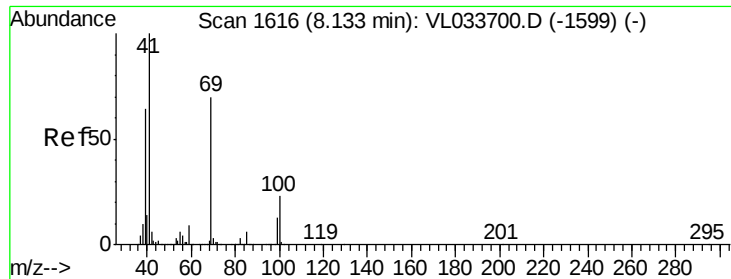
MMDadoda
5/28/2019 2:53:20 AM



#42
Bromodichloromethane
Concen: 11.550 ppbv
RT: 7.91 min Scan# 1547
Delta R.T. -0.01 min
Lab File: VL033772.D
Acq: 23 May 2019 13:16

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	1998217		
85	62.8		53.3	79.9
127	7.4		6.5	9.7





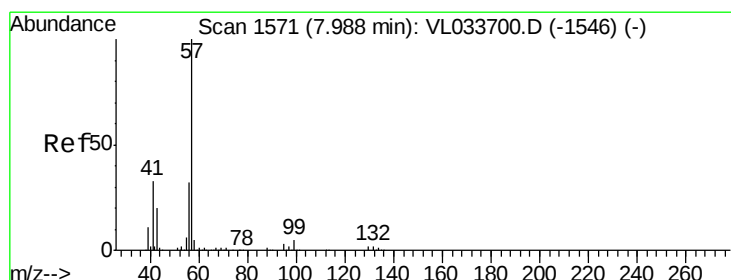
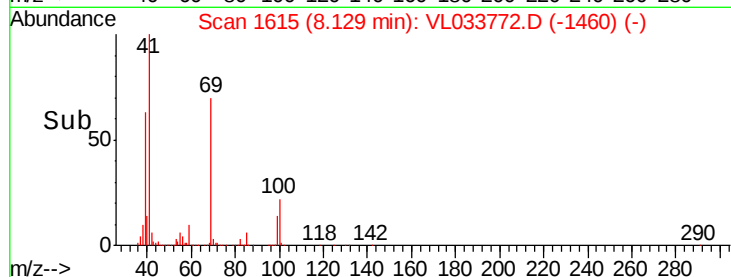
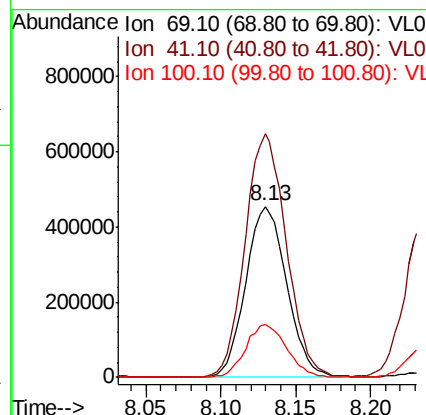
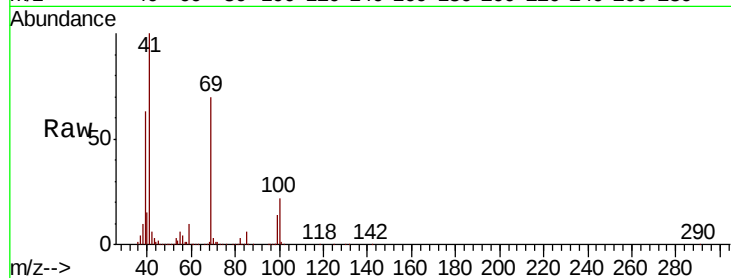
#43
Methvl Methacrylate
Concen: 12.041 ppbv
RT: 8.13 min Scan# 1615
Delta R.T. -0.00 min
Lab File: VL033772.D
Acq: 23 May 2019 13:16

Instrument :
MSVOA_L
ClientSampleId :
VL0523ABS01DUP

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	143.3	116.3	174.5	
100	30.9	25.3	37.9	

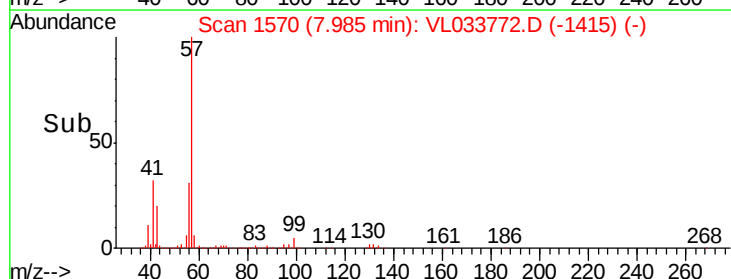
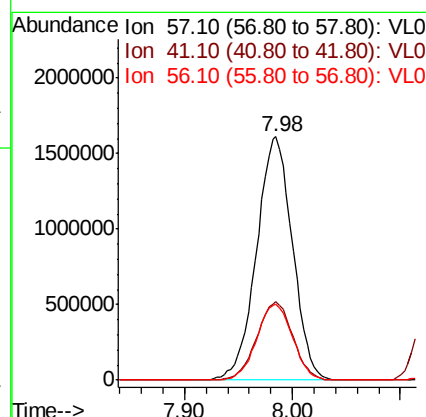
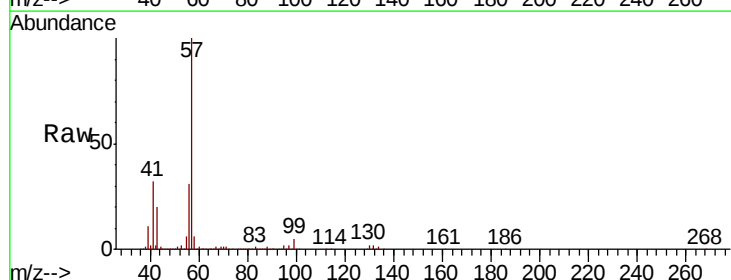
Manual Integrations
APPROVED

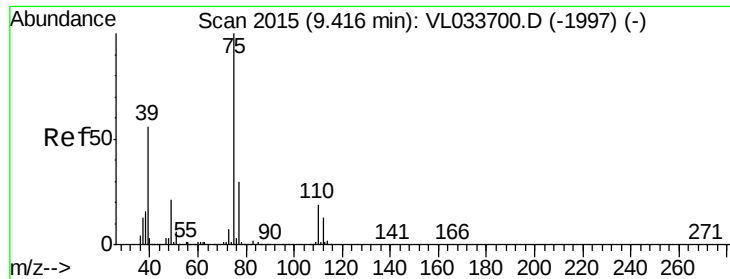
MMDadoda
5/28/2019 2:53:20 AM



#44
2,2,4-Trimethylpentane
Concen: 11.217 ppbv
RT: 7.98 min Scan# 1570
Delta R.T. -0.00 min
Lab File: VL033772.D
Acq: 23 May 2019 13:16

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	32.2	25.4	38.0	
56	31.1	24.7	37.1	





#45

t-1,3-Dichloropropene

Concen: 12.493 ppbv

RT: 9.41 min Scan# 2013

Delta R.T. -0.01 min

Lab File: VL033772.D

Acq: 23 May 2019 13:16

Instrument :

MSVOA_L

ClientSampleId :

VL0523ABS01DUP

Tot Ion: 75 Resp: 1141808

Ion Ratio Lower Upper

75 100

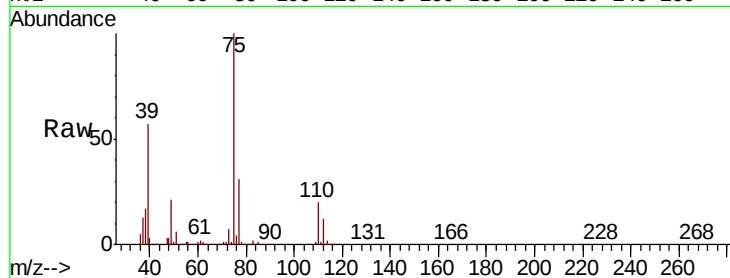
77 31.3 24.4 36.6

Manual Integrations

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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

600000

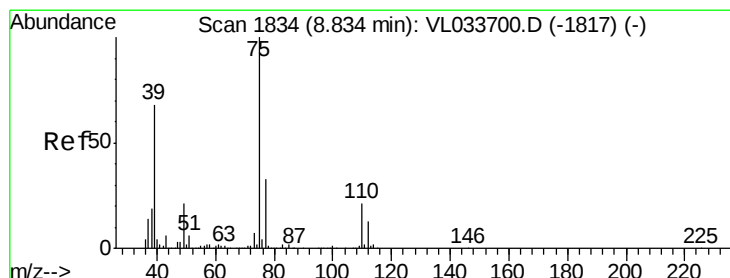
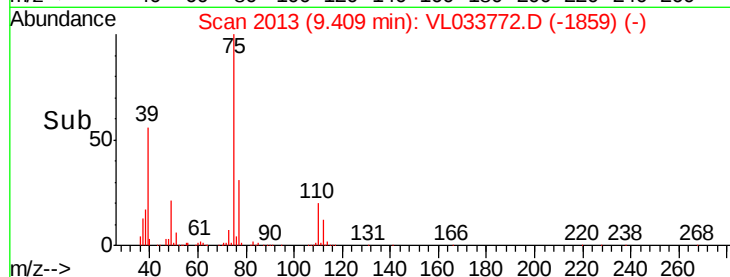
400000

200000

0

9.30 9.35 9.40 9.45 9.50

Time-->



#46

cis-1,3-Dichloropropene

Concen: 11.992 ppbv

RT: 8.83 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VL033772.D

Acq: 23 May 2019 13:16

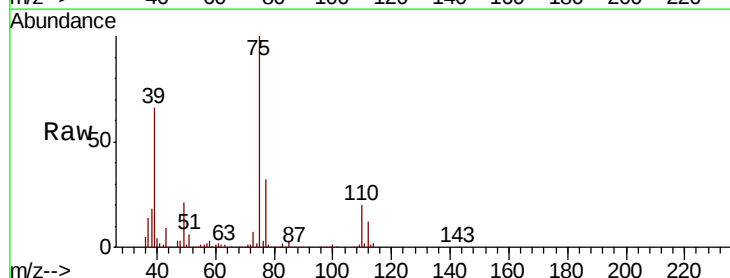
Tgt Ion: 75 Resp: 1283373

Ion Ratio Lower Upper

75 100

39 65.8 54.4 81.6

77 32.4 26.6 39.8



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

800000

600000

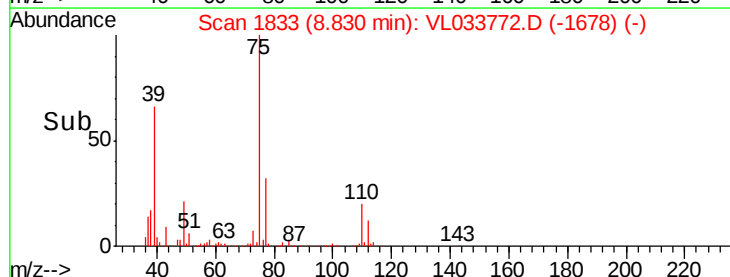
400000

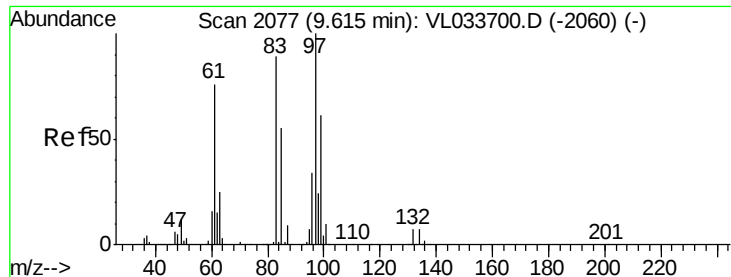
200000

0

8.75 8.80 8.85 8.90

Time-->





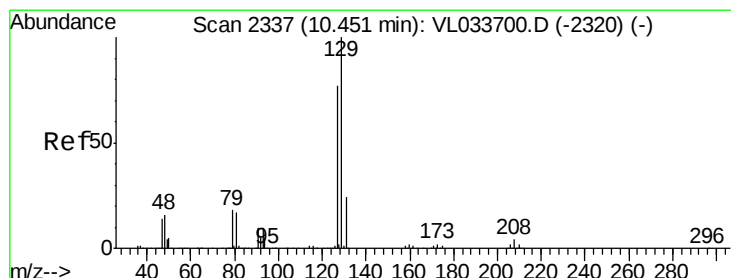
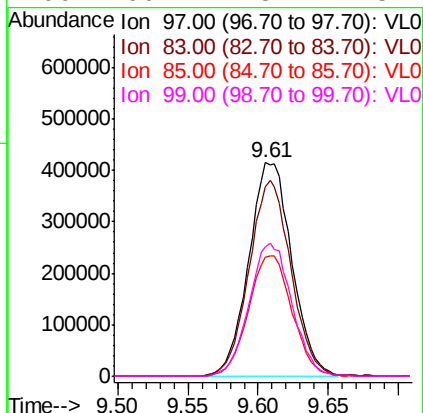
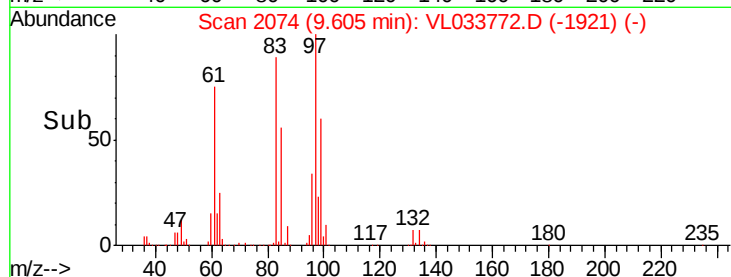
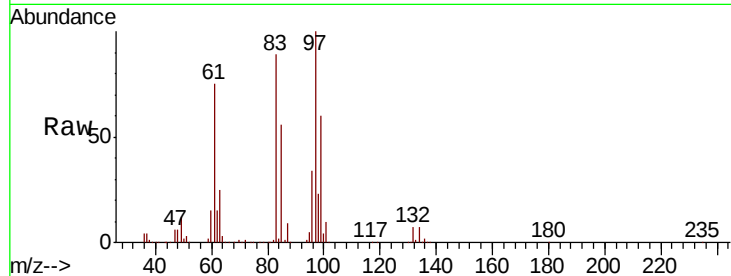
#47
 1,1,2-Trichloroethane
 Concen: 10.655 ppbv
 RT: 9.61 min Scan# 2074
 Delta R.T. -0.01 min
 Lab File: VL033772.D
 Acq: 23 May 2019 13:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0523ABS01DUP

Tot Ion	Ratio	Lower	Upper
97	100		
83	88.8	70.8	106.2
85	55.4	43.7	65.5
99	60.4	48.7	73.1

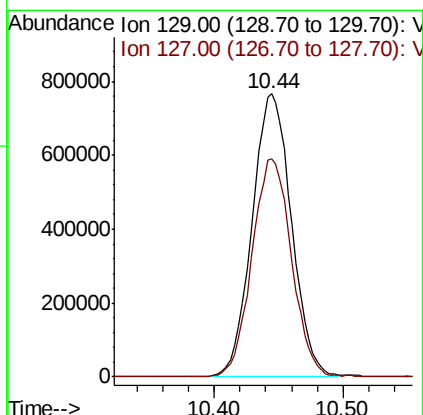
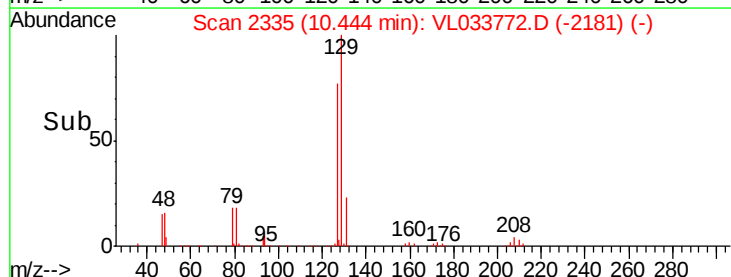
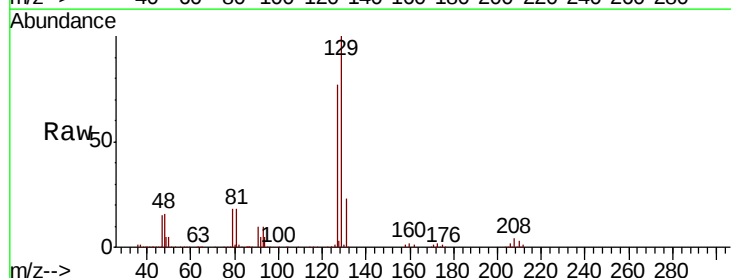
Manual Integrations
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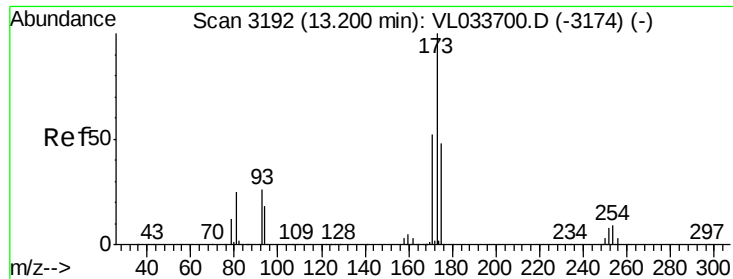
MMDadoda
 5/28/2019 2:53:20 AM



#48
 Dibromochloromethane
 Concen: 11.317 ppbv
 RT: 10.44 min Scan# 2335
 Delta R.T. -0.01 min
 Lab File: VL033772.D
 Acq: 23 May 2019 13:16

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.9	38.6	116.0





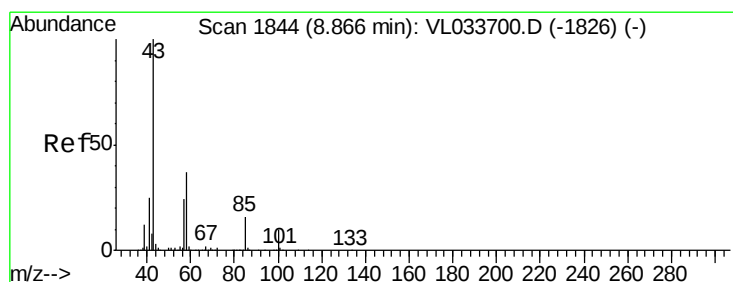
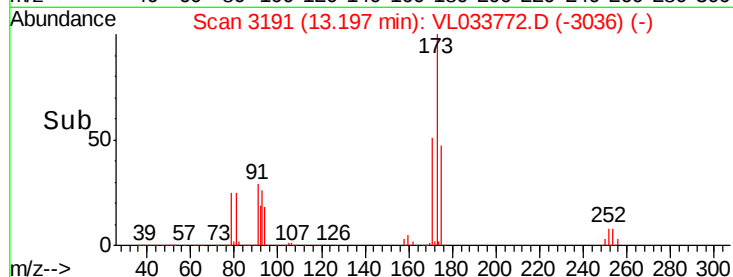
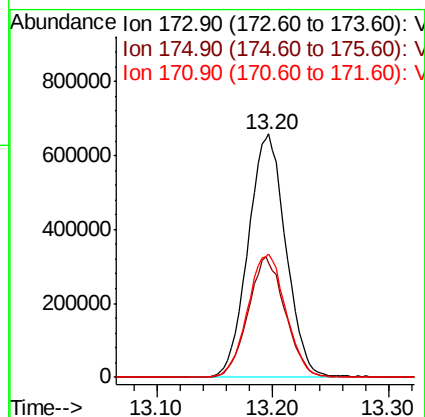
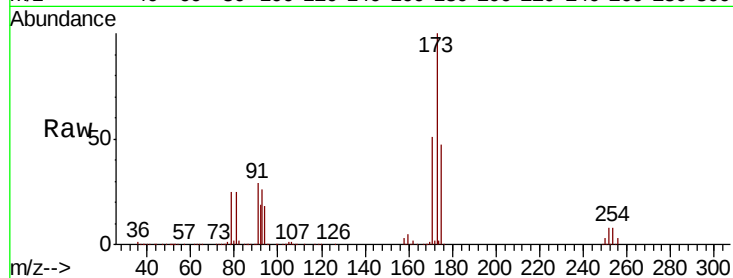
#49
Bromoform
Concen: 12.307 ppbv
RT: 13.20 min Scan# 3191
Delta R.T. -0.00 min
Lab File: VL033772.D
Acq: 23 May 2019 13:16

Instrument :
MSVOA_L
ClientSampleId :
VL0523ABS01DUP

Tot Ion:173 Resp: 1488695
Ion Ratio Lower Upper
173 100
175 48.9 38.6 58.0
171 51.4 41.5 62.3

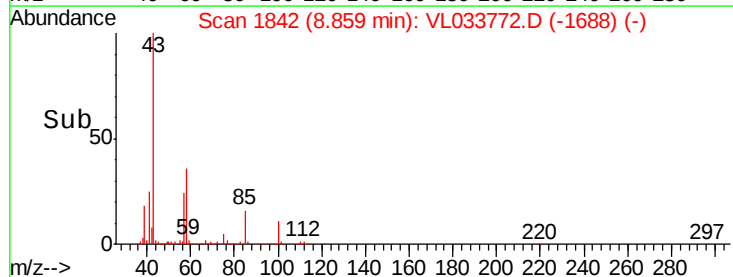
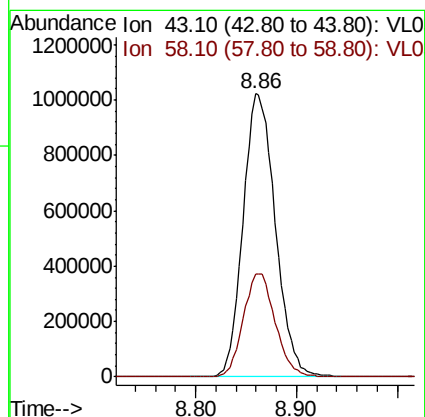
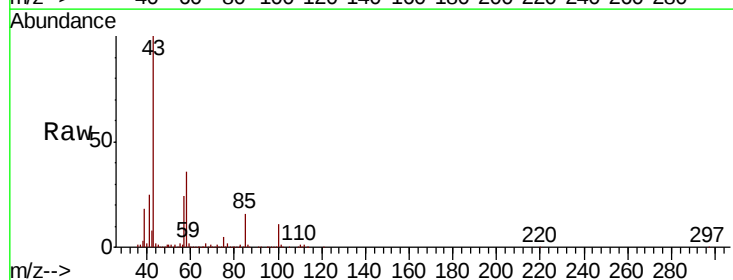
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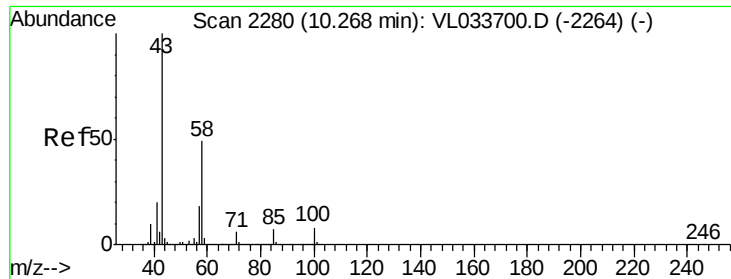
MMDadoda
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#50
4-Methyl-2-Pentanone
Concen: 11.015 ppbv
RT: 8.86 min Scan# 1842
Delta R.T. -0.01 min
Lab File: VL033772.D
Acq: 23 May 2019 13:16

Tgt Ion: 43 Resp: 2261606
Ion Ratio Lower Upper
43 100
58 36.1 28.6 43.0





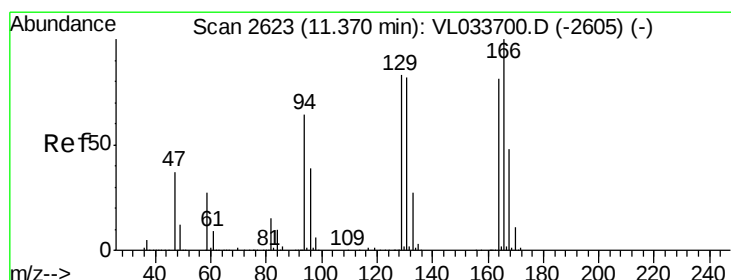
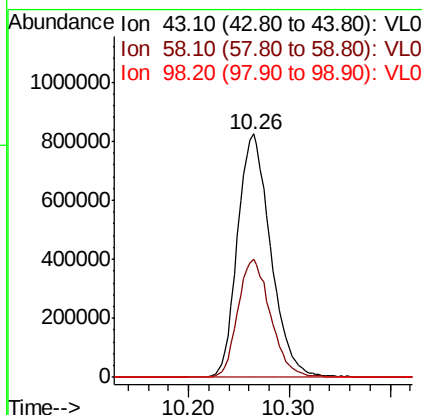
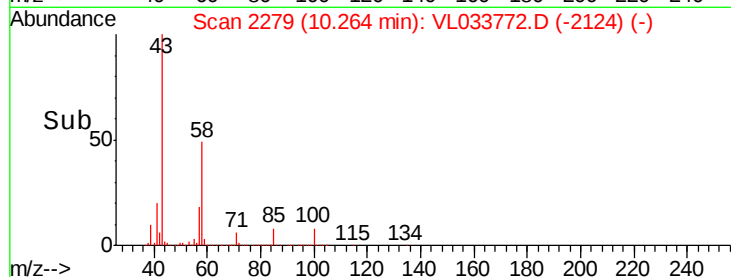
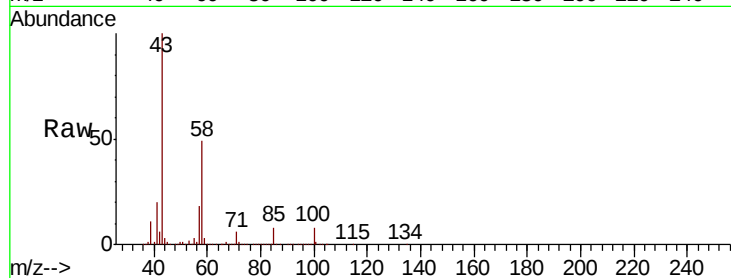
#51
2-Hexanone
Concen: 11.736 ppbv
RT: 10.26 min Scan# 2279
Delta R.T. -0.00 min
Lab File: VL033772.D
Acq: 23 May 2019 13:16

Instrument :
MSVOA_L
ClientSampleId :
VL0523ABS01DUP

Tot Ion: 43 Resp: 1880608
Ion Ratio Lower Upper
43 100
58 47.8 38.7 58.1
98 0.4 0.2 0.4#

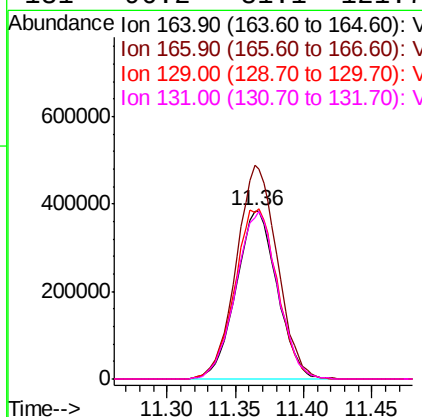
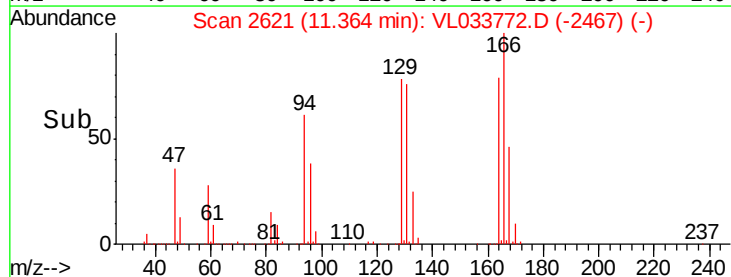
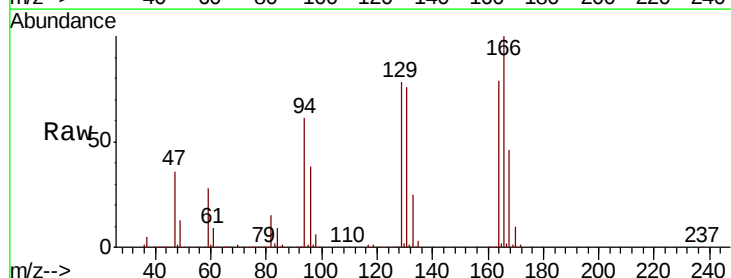
Manual Integrations
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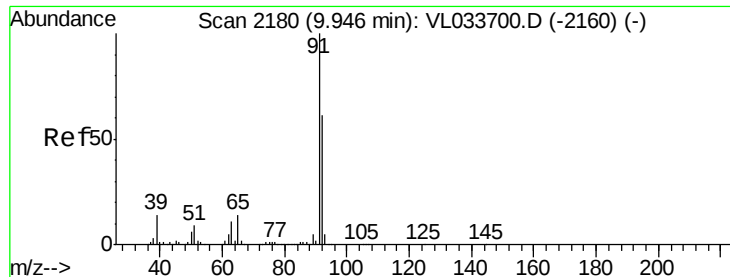
MMDadoda
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#52
Tetrachloroethene
Concen: 11.609 ppbv
RT: 11.36 min Scan# 2621
Delta R.T. -0.01 min
Lab File: VL033772.D
Acq: 23 May 2019 13:16

Tgt Ion: 164 Resp: 799425
Ion Ratio Lower Upper
164 100
166 127.0 98.9 148.3
129 98.8 81.8 122.6
131 96.2 81.1 121.7





#53

Toluene

Concen: 11.671 ppbv

RT: 9.94 min Scan# 2178

Delta R.T. -0.01 min

Lab File: VL033772.D

Acq: 23 May 2019 13:16

Instrument :

MSVOA_L

ClientSampleId :

VL0523ABS01DUP

Tot Ion: 91 Resp: 2466068

Ion Ratio Lower Upper

91 100

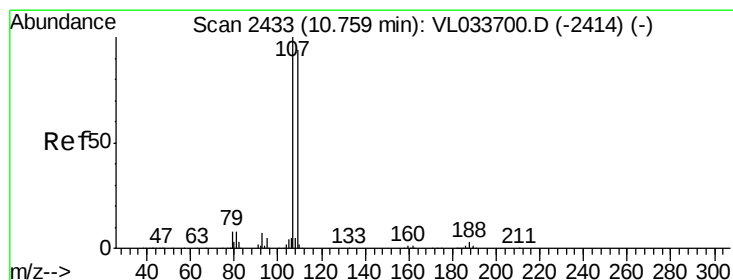
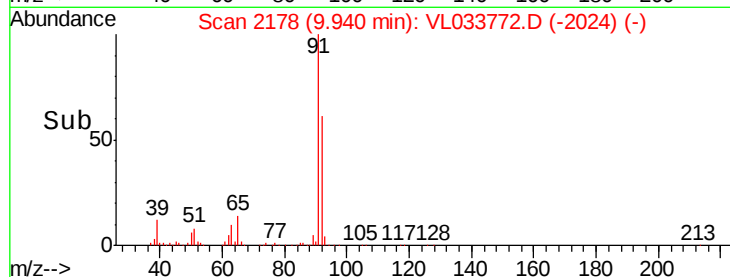
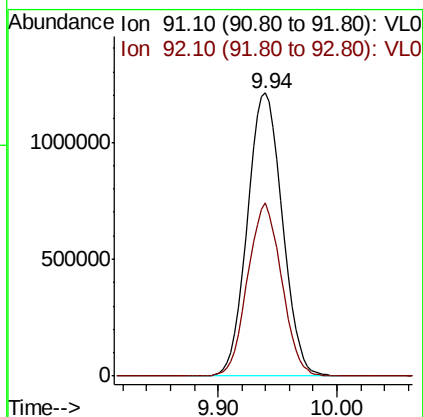
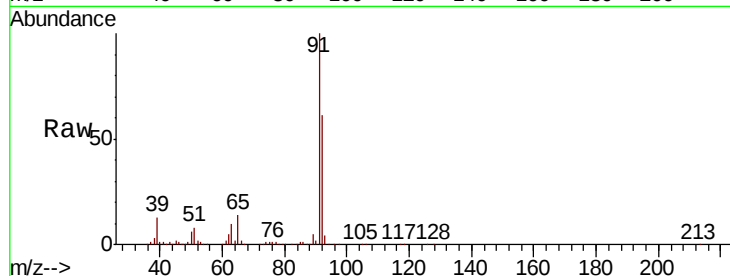
92 59.5 47.6 71.4

Manual Integrations

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#54

1,2-Dibromoethane

Concen: 11.030 ppbv

RT: 10.75 min Scan# 2431

Delta R.T. -0.01 min

Lab File: VL033772.D

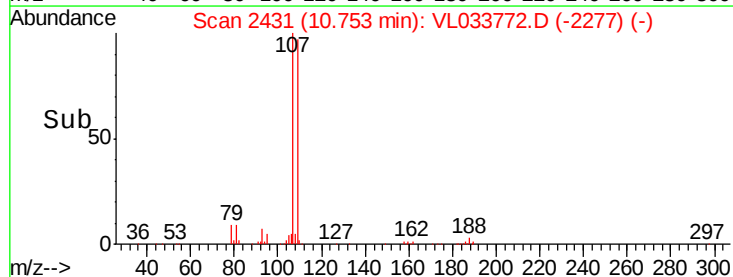
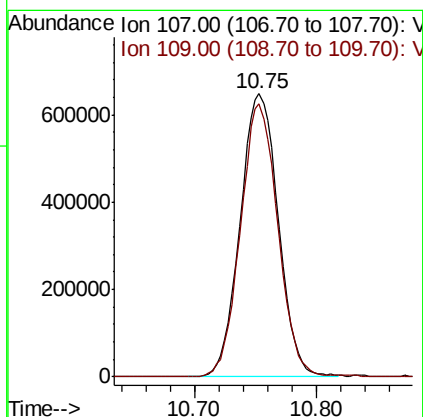
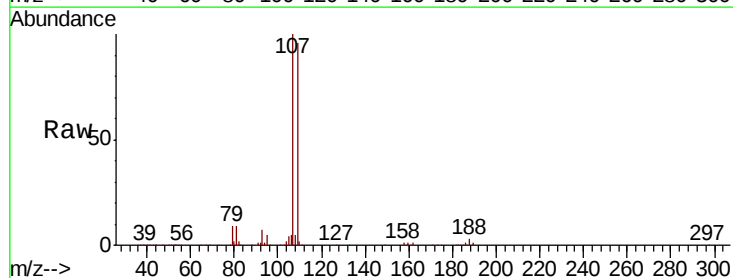
Acq: 23 May 2019 13:16

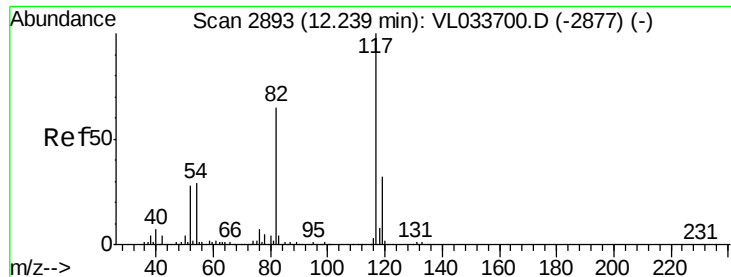
Tgt Ion:107 Resp: 1396638

Ion Ratio Lower Upper

107 100

109 96.5 75.2 112.8





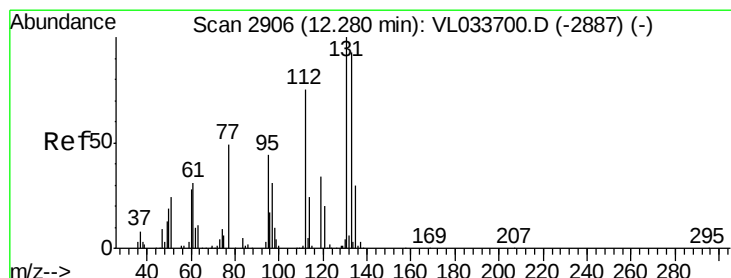
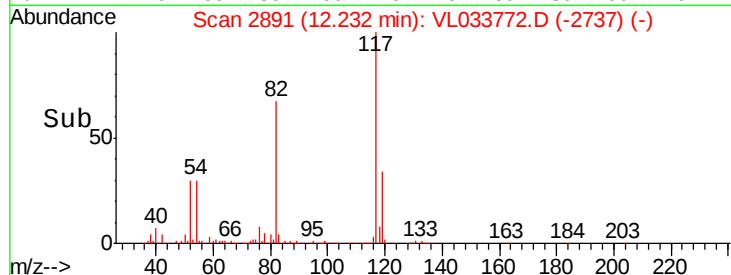
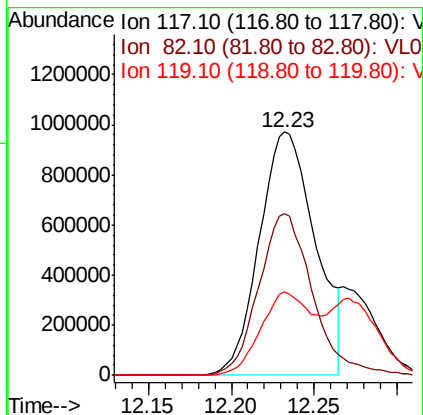
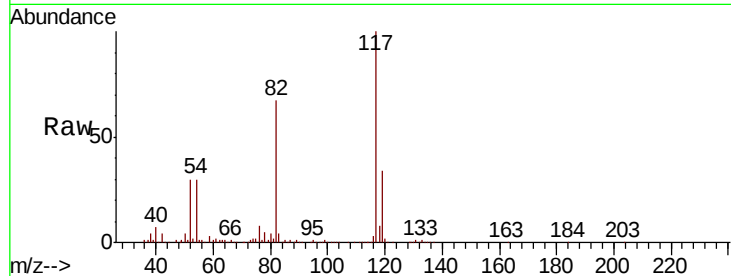
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.23 min Scan# 2891
Delta R.T. -0.01 min
Lab File: VL033772.D
Acq: 23 May 2019 13:16

Instrument :
MSVOA_L
ClientSampleId :
VL0523ABS01DUP

Tot Ion	Ratio	Lower	Upper
117	100		
82	64.8	49.4	74.0
119	28.1	24.9	37.3

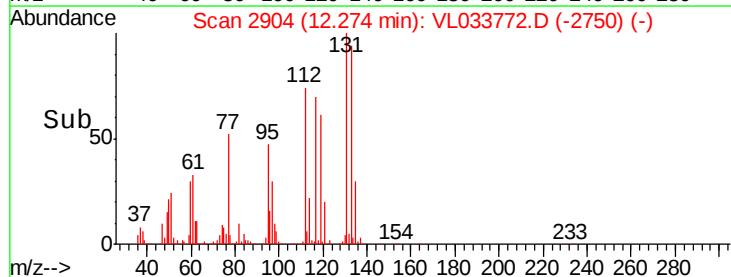
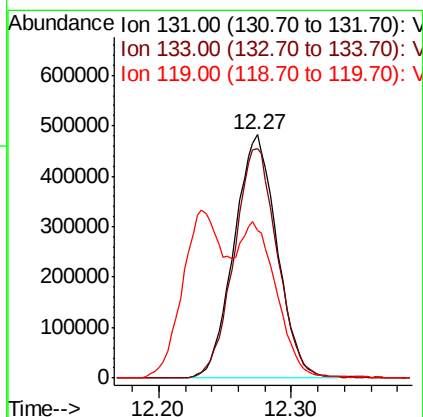
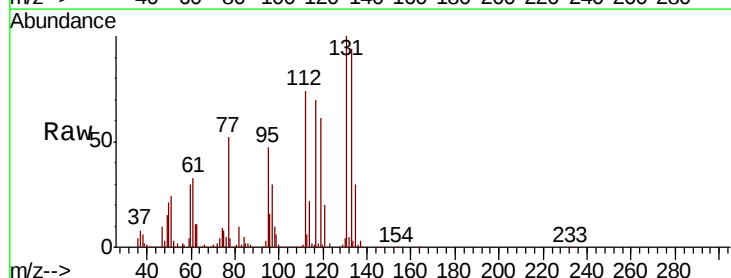
Manual Integrations
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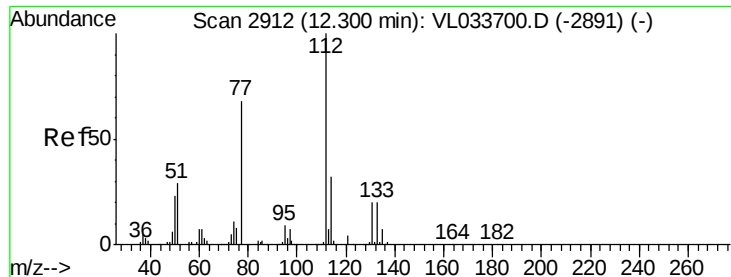
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 10.230 ppbv
RT: 12.27 min Scan# 2904
Delta R.T. -0.01 min
Lab File: VL033772.D
Acq: 23 May 2019 13:16

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.8	76.6	114.8
119	67.0	49.0	73.4





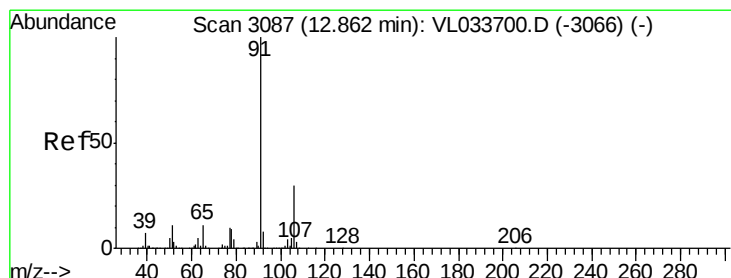
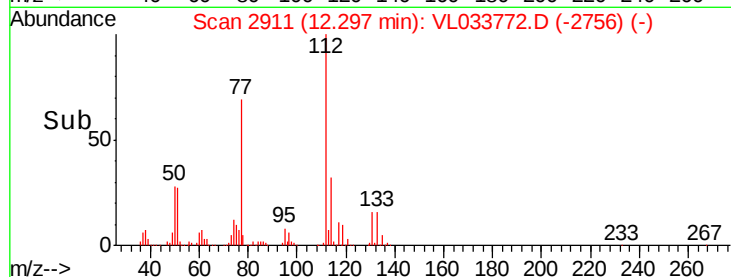
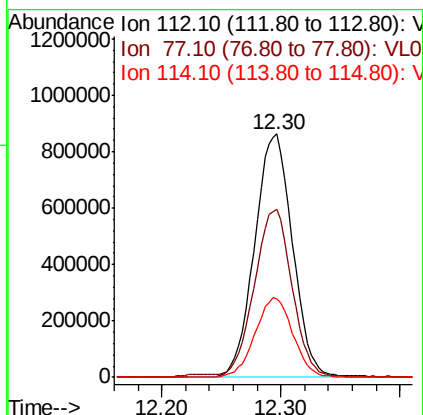
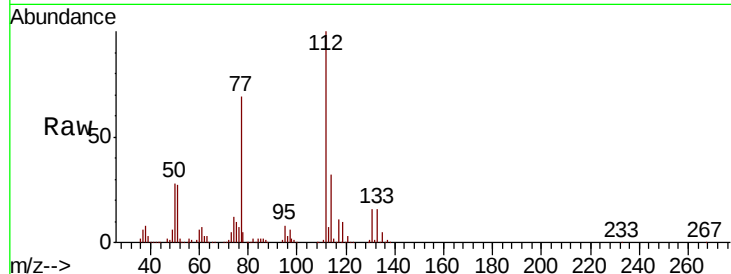
#57
Chlorobenzene
Concen: 10.086 ppbv
RT: 12.30 min Scan# 2911
Delta R.T. -0.00 min
Lab File: VL033772.D
Acq: 23 May 2019 13:16

Instrument :
MSVOA_L
ClientSampleId :
VL0523ABS01DUP

Tot Ion	Ratio	Lower	Upper
112	100		
77	68.2	55.4	83.0
114	32.2	29.3	35.8

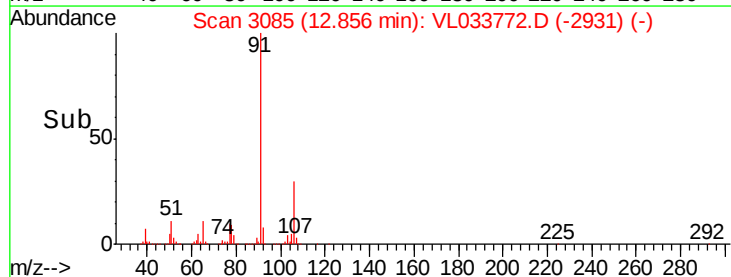
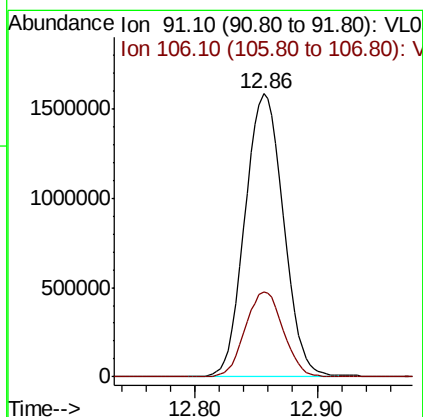
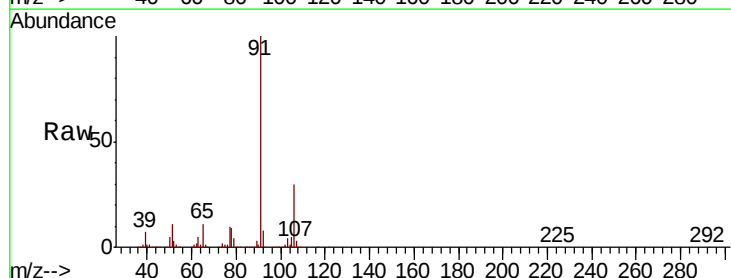
Manual Integrations
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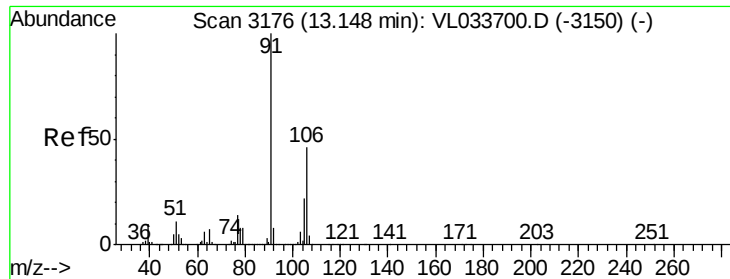
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#58
Ethyl Benzene
Concen: 11.405 ppbv
RT: 12.86 min Scan# 3085
Delta R.T. -0.01 min
Lab File: VL033772.D
Acq: 23 May 2019 13:16

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.9	23.9	35.9





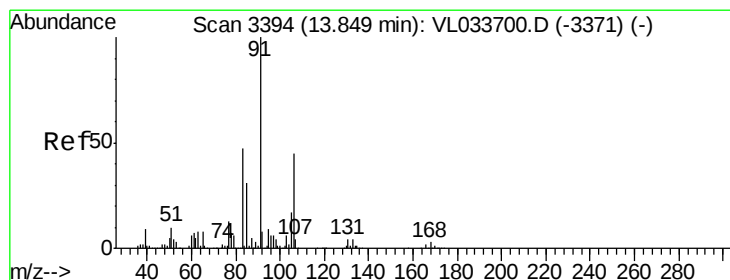
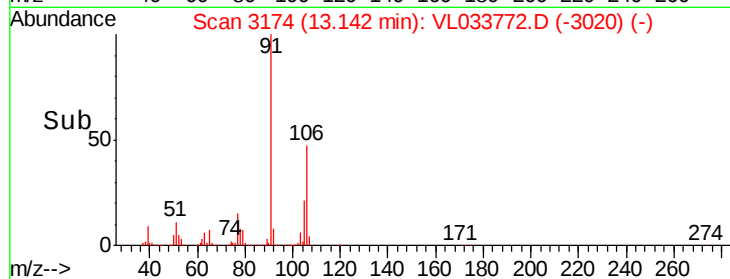
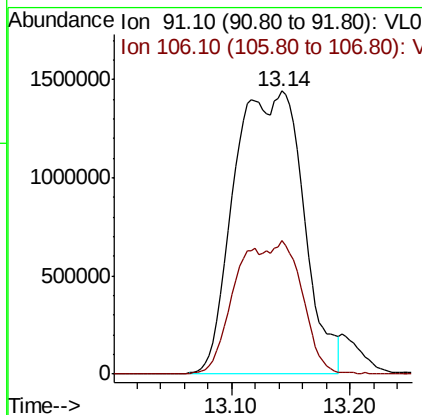
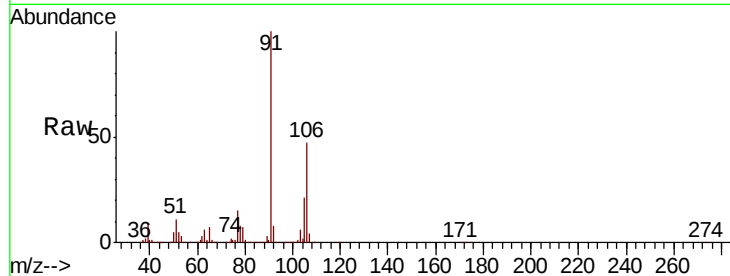
#59
m/p-Xylene
Concen: 22.043 ppbv m
RT: 13.14 min Scan# 3174
Delta R.T. -0.01 min
Lab File: VL033772.D
Acq: 23 May 2019 13:16

Instrument :
MSVOA_L
ClientSampleId :
VL0523ABS01DUP

Tot Ion: 91 Resp: 5831058
Ion Ratio Lower Upper
91 100
106 44.8 35.8 53.6

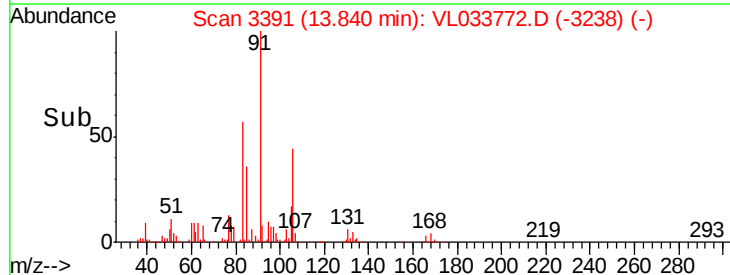
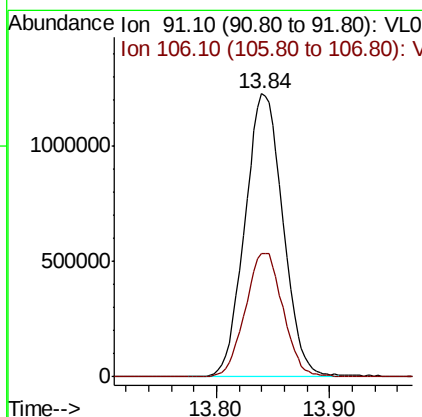
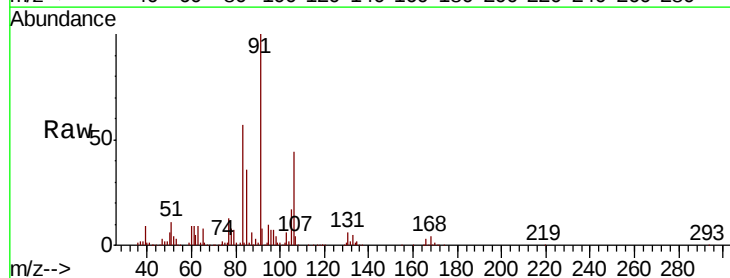
Manual Integrations
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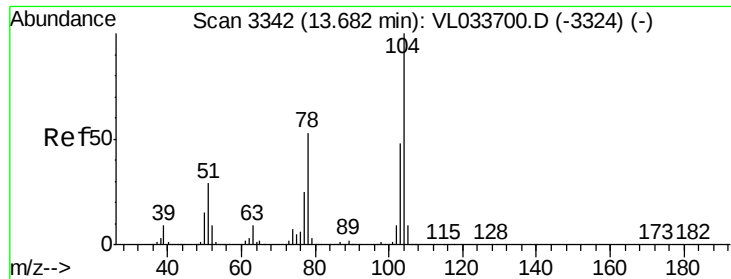
MMDadoda
5/28/2019 2:53:20 AM



#60
o-Xylene
Concen: 10.756 ppbv
RT: 13.84 min Scan# 3391
Delta R.T. -0.01 min
Lab File: VL033772.D
Acq: 23 May 2019 13:16

Tgt Ion: 91 Resp: 2868223
Ion Ratio Lower Upper
91 100
106 43.6 21.6 64.8





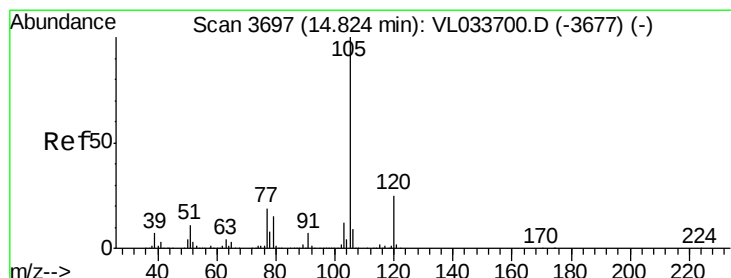
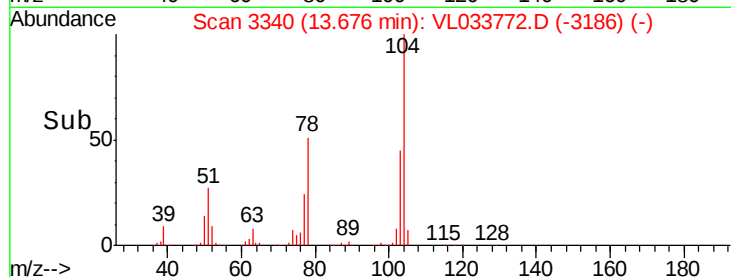
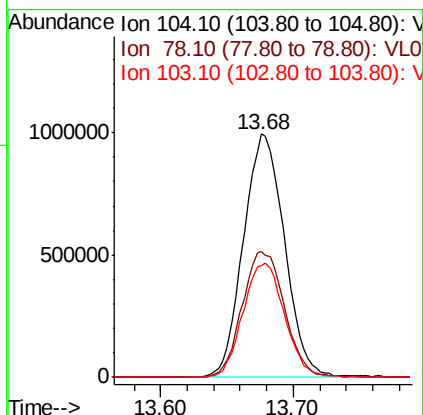
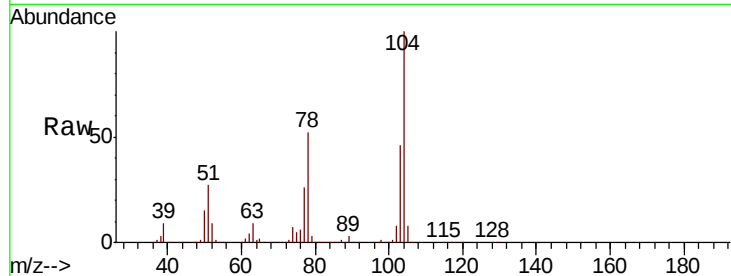
#61
Stvrene
Concen: 11.909 ppbv
RT: 13.68 min Scan# 3340
Delta R.T. -0.01 min
Lab File: VL033772.D
Acq: 23 May 2019 13:16

Instrument :
MSVOA_L
ClientSampleId :
VL0523ABS01DUP

Tot Ion	Ratio	Lower	Upper
104	100		
78	53.8	42.6	64.0
103	47.8	37.8	56.6

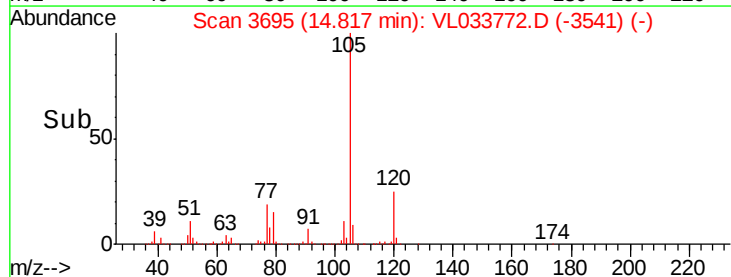
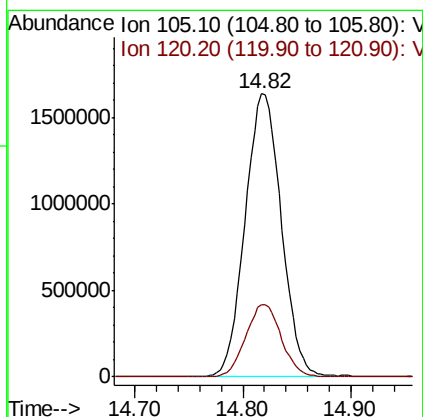
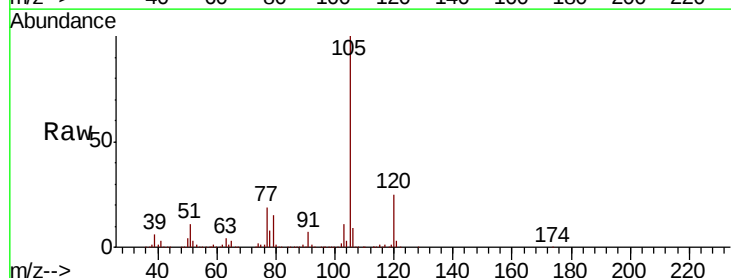
Manual Integrations
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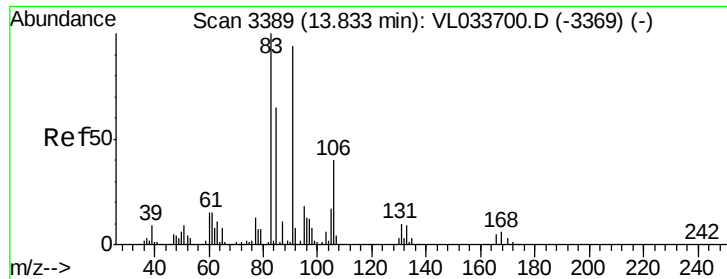
MMDadoda
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#62
Isopropylbenzene
Concen: 10.659 ppbv
RT: 14.82 min Scan# 3695
Delta R.T. -0.01 min
Lab File: VL033772.D
Acq: 23 May 2019 13:16

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.3	20.1	30.1





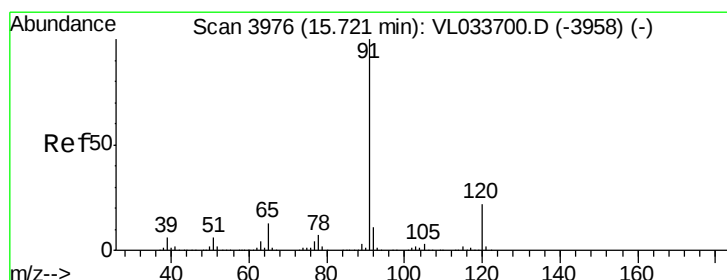
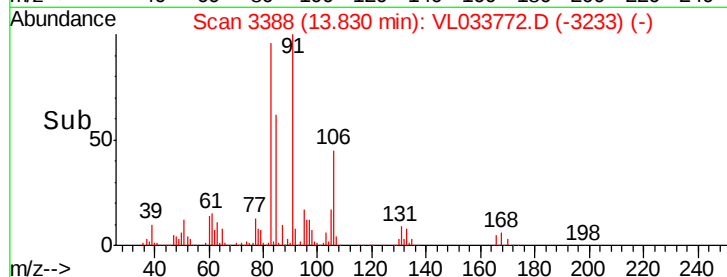
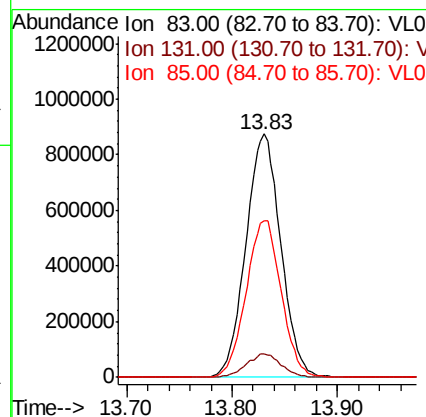
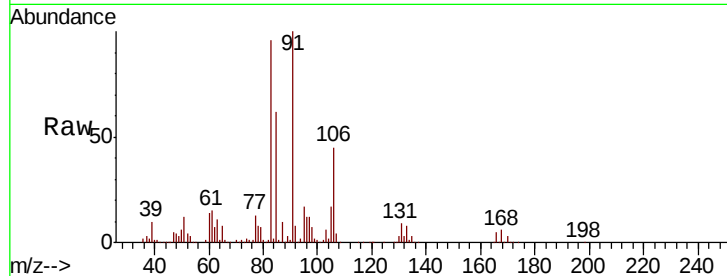
#63
 1,1,2,2-Tetrachloroethane
 Concen: 10.389 ppbv
 RT: 13.83 min Scan# 3388
 Delta R.T. -0.00 min
 Lab File: VL033772.D
 Acq: 23 May 2019 13:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0523ABS01DUP

Tot Ion	83	131	85
Resp	2014642	9.7	65.0
Lower		4.8	32.3
Upper		14.3	96.9

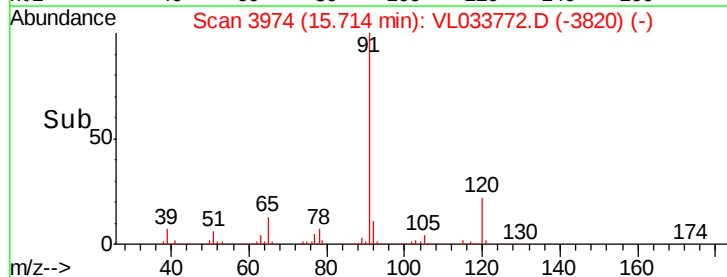
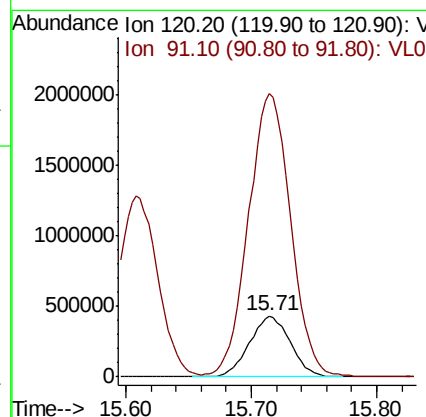
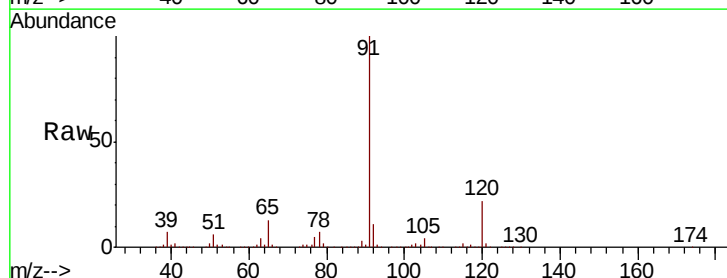
Manual Integrations
 APPROVED

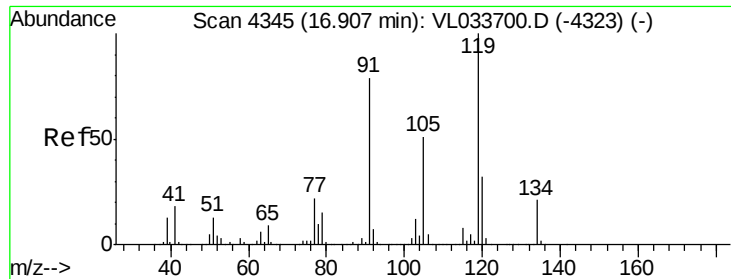
MMDadoda
 5/28/2019 2:53:20 AM



#64
 n-propylbenzene
 Concen: 10.607 ppbv
 RT: 15.71 min Scan# 3974
 Delta R.T. -0.01 min
 Lab File: VL033772.D
 Acq: 23 May 2019 13:16

Tgt Ion	120	91
Resp	985328	479.7
Lower		379.1
Upper		568.7





#65

tert-Butylbenzene

Concen: 10.715 ppbv

RT: 16.90 min Scan# 4343

Delta R.T. -0.01 min

Lab File: VL033772.D

Acq: 23 May 2019 13:16

Instrument :

MSVOA_L

ClientSampleId :

VL0523ABS01DUP

Tot Ion:119 Resp: 3513295

Ion Ratio Lower Upper

119 100

91 82.6 65.3 97.9

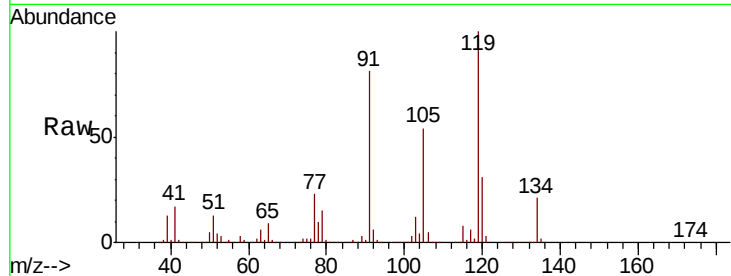
134 19.5 15.7 23.5

Manual Integrations

APPROVED

MMDadoda

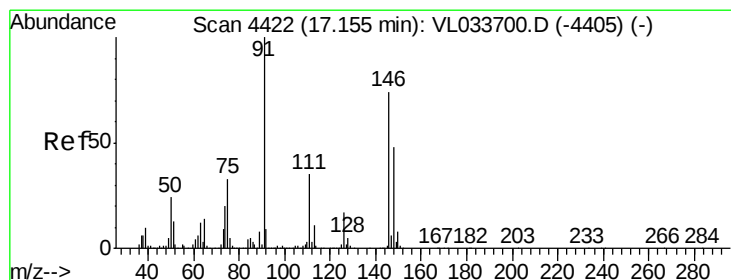
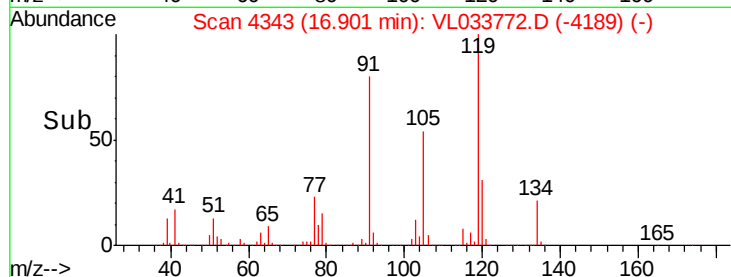
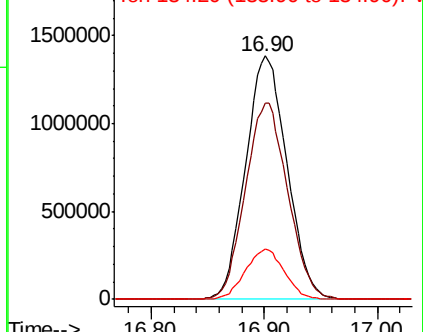
5/28/2019 2:53:20 AM



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 11.649 ppbv

RT: 17.15 min Scan# 4420

Delta R.T. -0.01 min

Lab File: VL033772.D

Acq: 23 May 2019 13:16

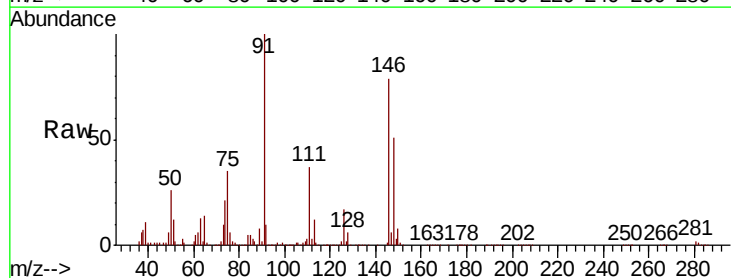
Tgt Ion: 91 Resp: 1819121

Ion Ratio Lower Upper

91 100

126 17.0 13.5 20.3

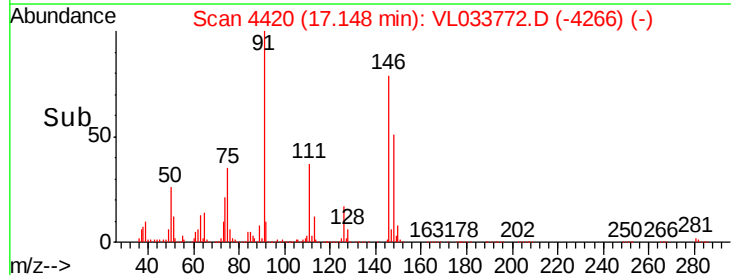
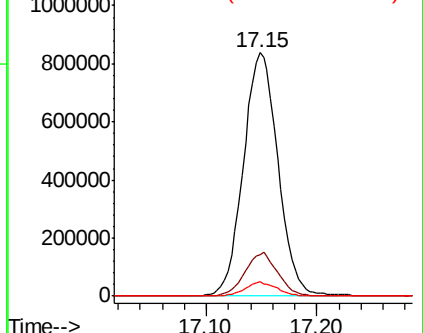
128 5.3 4.3 6.5

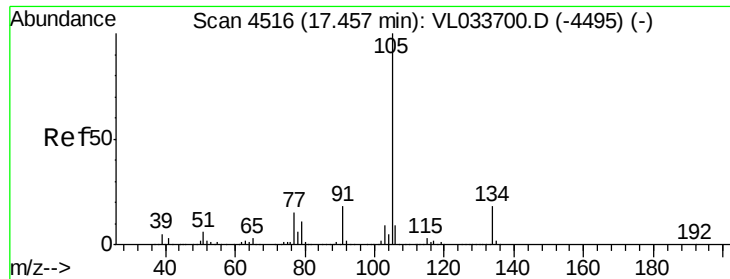


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 10.573 ppbv

RT: 17.45 min Scan# 4514

Delta R.T. -0.01 min

Lab File: VL033772.D

Acq: 23 May 2019 13:16

Instrument :

MSVOA_L

ClientSampleId :

VL0523ABS01DUP

Tot Ion:105 Resp: 4852309

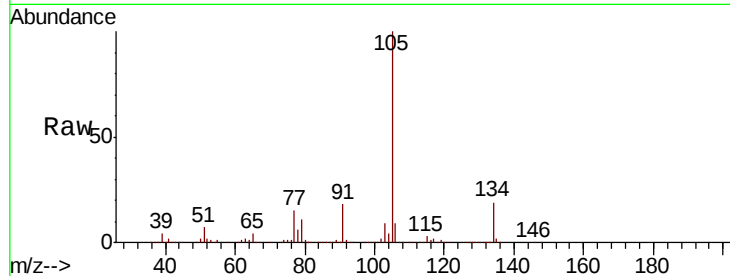
Ion Ratio Lower Upper

105 100

134 18.2 14.6 22.0

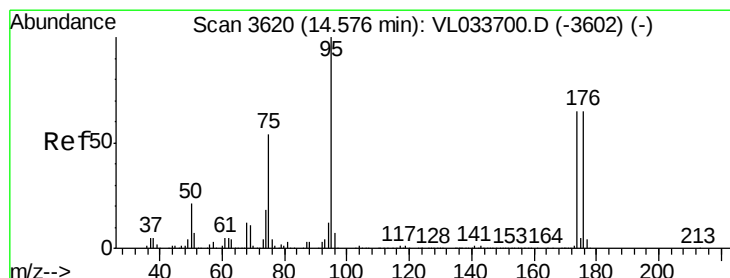
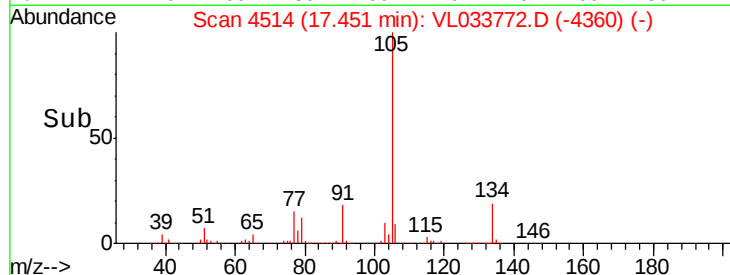
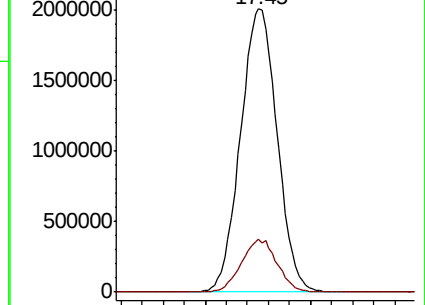
Manual Integrations
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.745 ppbv

RT: 14.57 min Scan# 3617

Delta R.T. -0.01 min

Lab File: VL033772.D

Acq: 23 May 2019 13:16

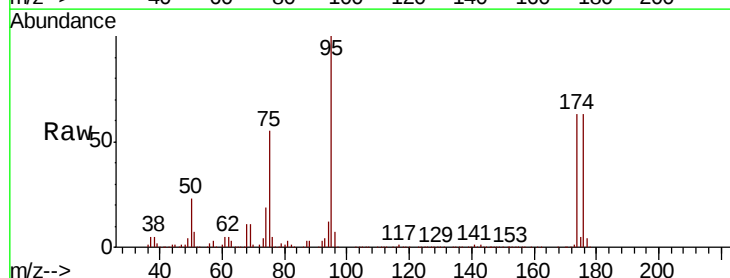
Tgt Ion: 95 Resp: 1805362

Ion Ratio Lower Upper

95 100

174 67.1 53.9 80.9

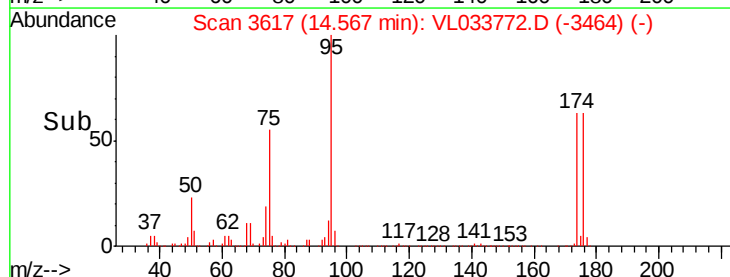
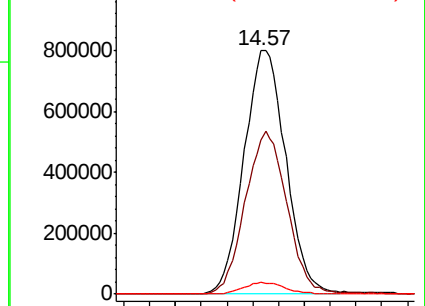
175 4.8 3.8 5.8

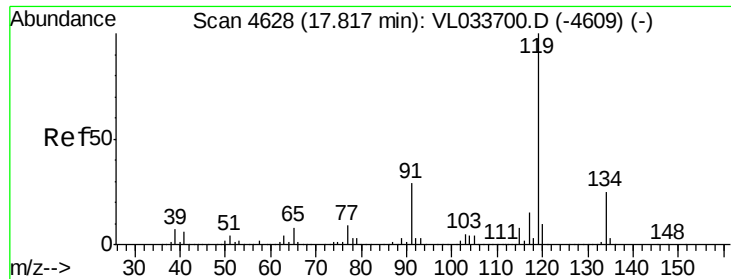


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





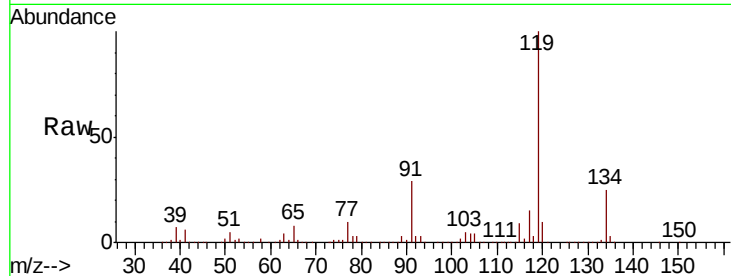
#69
 p-Isopropyltoluene
 Concen: 10.649 ppbv
 RT: 17.81 min Scan# 4625
 Delta R.T. -0.01 min
 Lab File: VL033772.D
 Acq: 23 May 2019 13:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0523ABS01DUP

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.1	20.3	30.5
91	29.1	23.1	34.7

Manual Integrations
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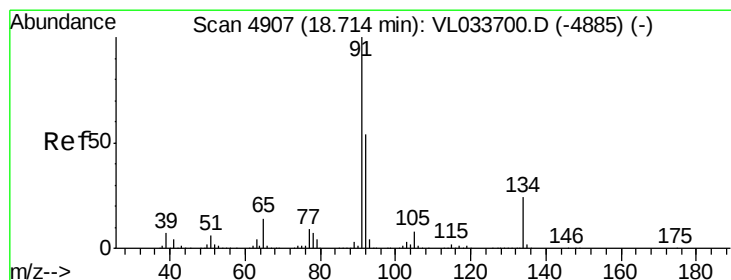
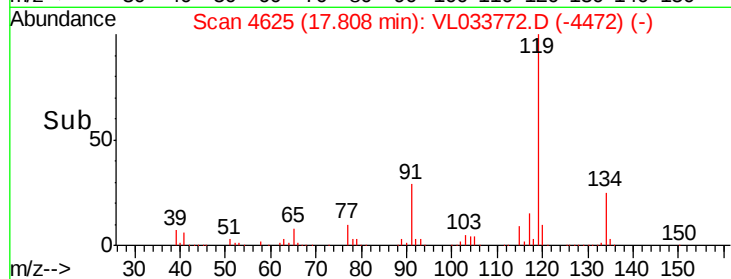
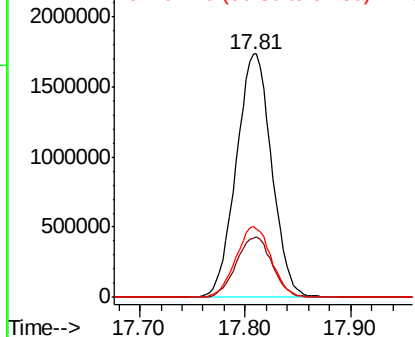


Abundance

Ion 119.10 (118.80 to 119.80): V

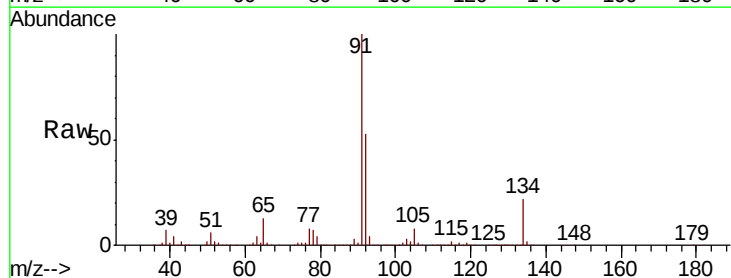
Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V



#70
 n-Butylbenzene
 Concen: 10.265 ppbv
 RT: 18.70 min Scan# 4904
 Delta R.T. -0.01 min
 Lab File: VL033772.D
 Acq: 23 May 2019 13:16

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.9	42.6	63.8
134	22.2	18.1	27.1

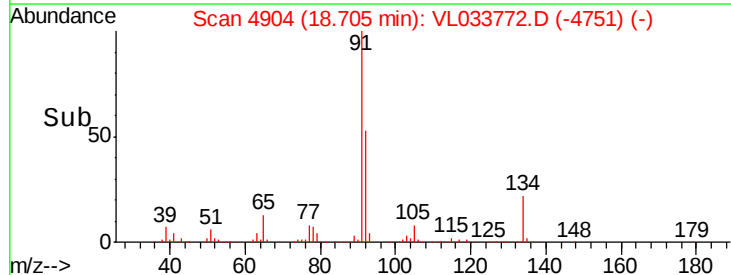
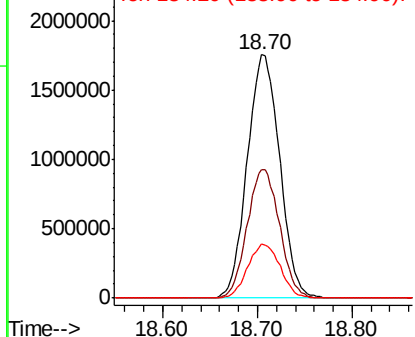


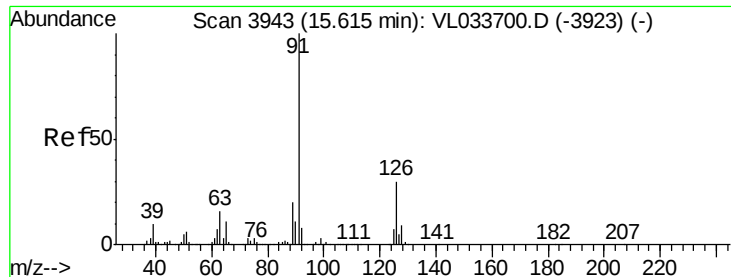
Abundance

Ion 91.10 (90.80 to 91.80): V

Ion 92.10 (91.80 to 92.80): V

Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 10.871 ppbv

RT: 15.61 min Scan# 3941

Delta R.T. -0.01 min

Lab File: VL033772.D

Acq: 23 May 2019 13:16

Instrument :

MSVOA_L

ClientSampleId :

VL0523ABS01DUP

Tot Ion: 91 Resp: 2896461

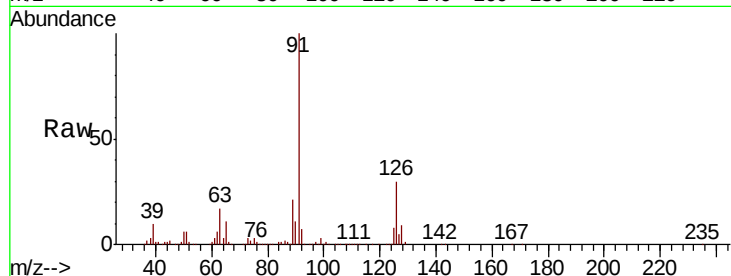
Ion Ratio Lower Upper

91 100

126 30.0 12.0 47.8

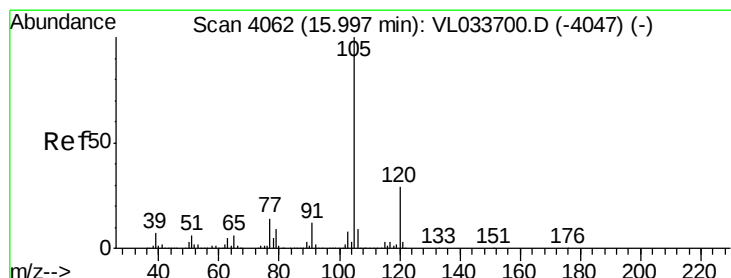
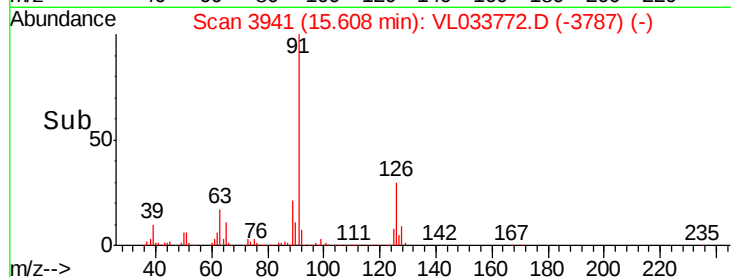
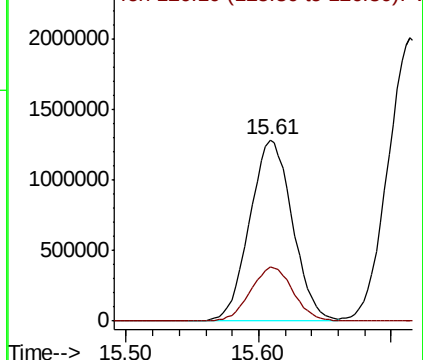
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 10.958 ppbv

RT: 15.99 min Scan# 4060

Delta R.T. -0.01 min

Lab File: VL033772.D

Acq: 23 May 2019 13:16

Tgt Ion:105 Resp: 3341168

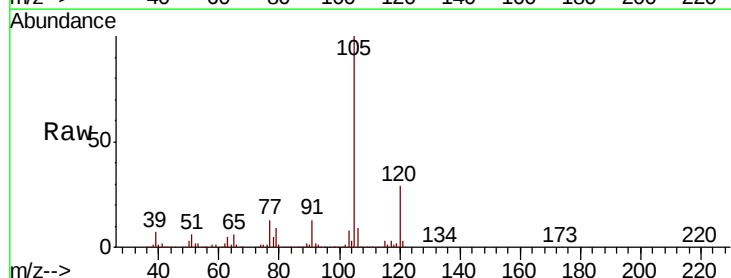
Ion Ratio Lower Upper

105 100

120 29.1 23.1 34.7

91 13.1 10.4 15.6

77 13.9 11.0 16.6

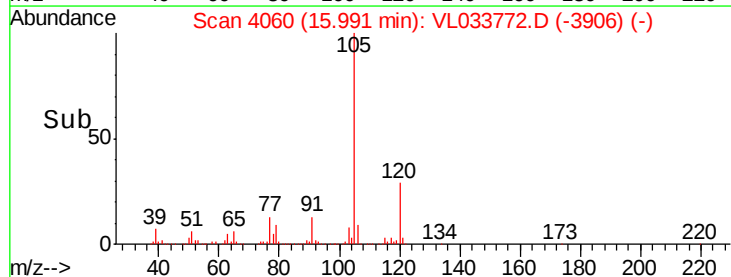
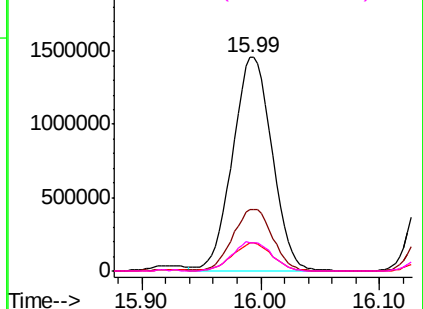


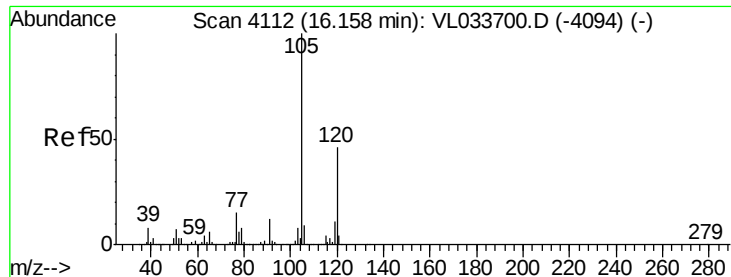
Abundance Ion 105.10 (104.80 to 105.80): V

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





#73

1,3,5-Trimethylbenzene

Concen: 10.770 ppbv

RT: 16.15 min Scan# 4110

Delta R.T. -0.01 min

Lab File: VL033772.D

Acq: 23 May 2019 13:16

Instrument :

MSVOA_L

ClientSampleId :

VL0523ABS01DUP

Tot Ion:105 Resp: 3203998

Ion Ratio Lower Upper

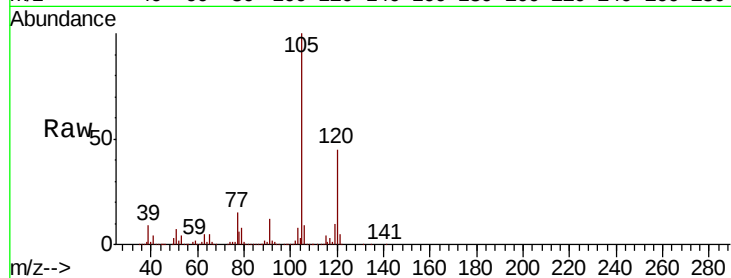
105 100

120 45.4 37.0 55.4

Manual Integrations
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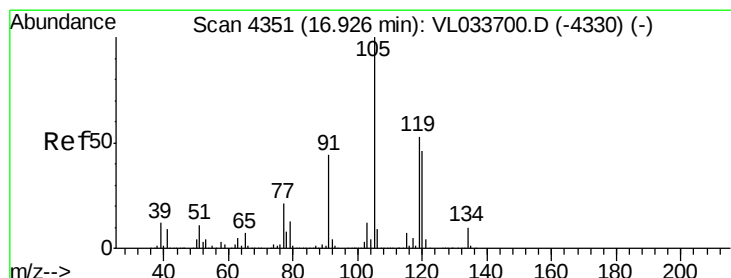
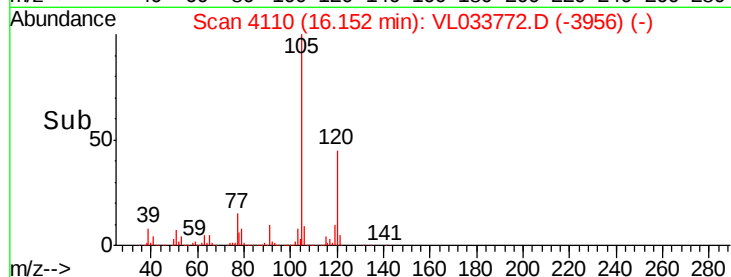
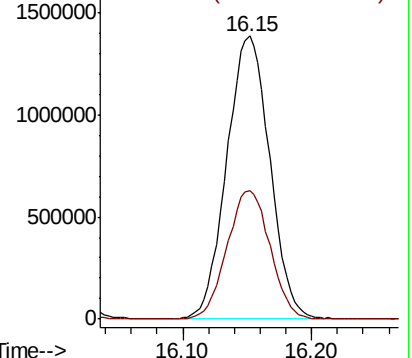
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 10.396 ppbv

RT: 16.92 min Scan# 4349

Delta R.T. -0.01 min

Lab File: VL033772.D

Acq: 23 May 2019 13:16

Tgt Ion:105 Resp: 3365812

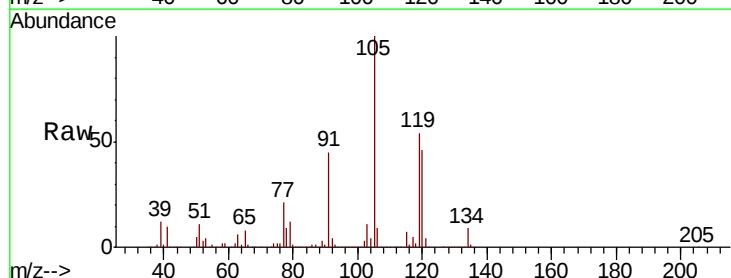
Ion Ratio Lower Upper

105 100

120 46.1 36.8 55.2

91 44.4 35.4 53.0

77 21.1 16.8 25.2

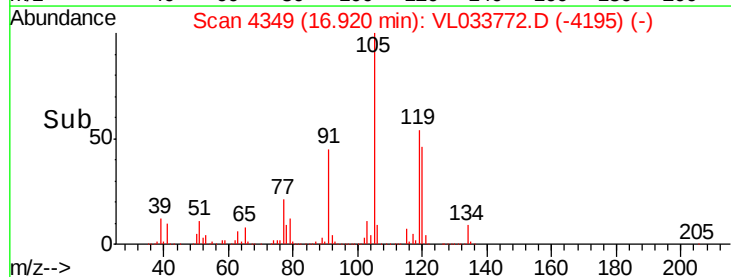
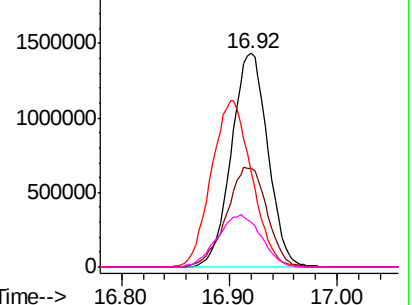


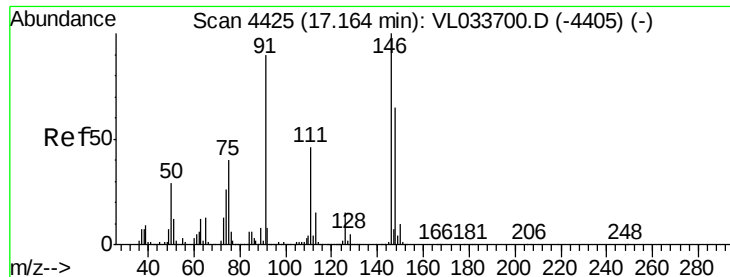
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#75

1,3-Dichlorobenzene

Concen: 9.725 ppbv

RT: 17.15 min Scan# 4422

Delta R.T. -0.01 min

Lab File: VL033772.D

Acq: 23 May 2019 13:16

Instrument :

MSVOA_L

ClientSampleId :

VL0523ABS01DUP

Tot Ion:146 Resp: 1929374

Ion Ratio Lower Upper

146 100

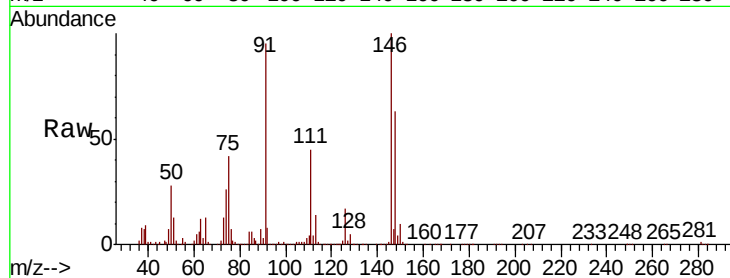
111 45.3 22.9 68.8

148 64.0 32.0 96.2

Manual Integrations
APPROVED

MMDadoda

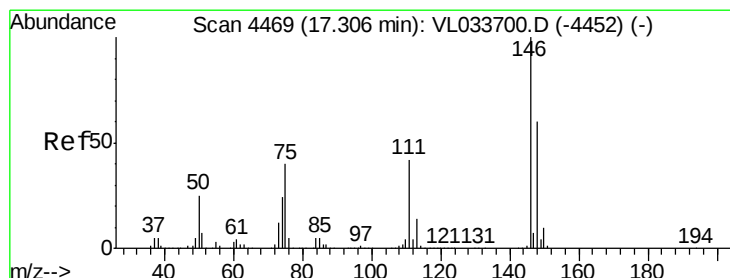
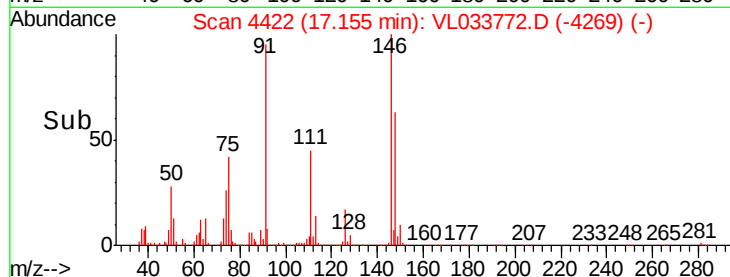
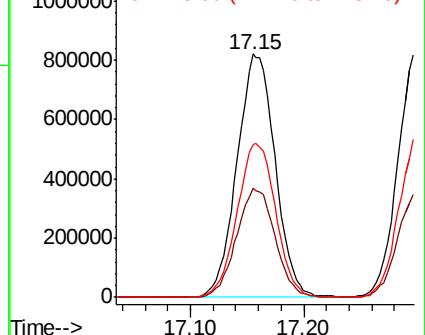
5/28/2019 2:53:20 AM



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 10.116 ppbv

RT: 17.30 min Scan# 4467

Delta R.T. -0.01 min

Lab File: VL033772.D

Acq: 23 May 2019 13:16

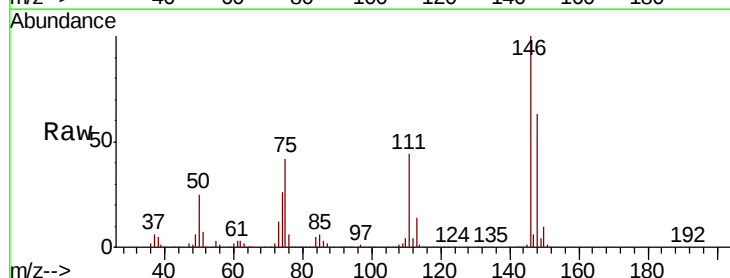
Tgt Ion:146 Resp: 1907536

Ion Ratio Lower Upper

146 100

111 43.5 21.9 65.8

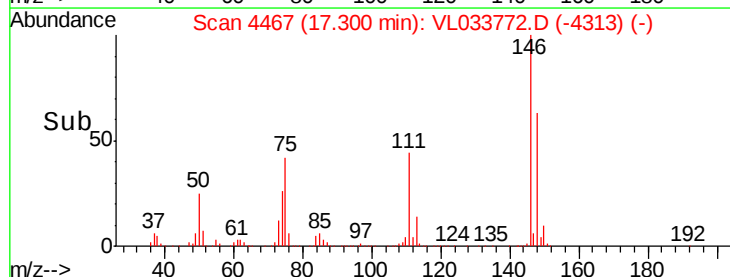
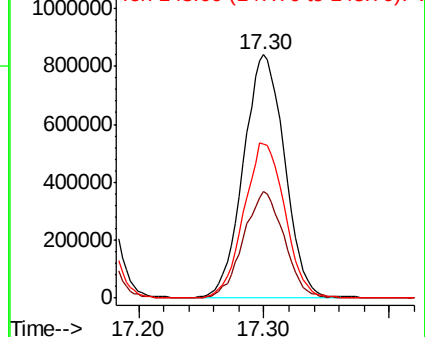
148 63.9 32.1 96.3

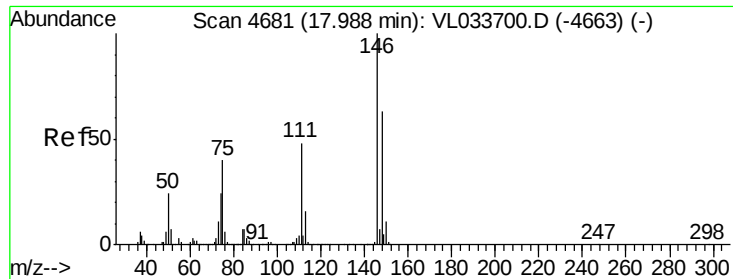


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





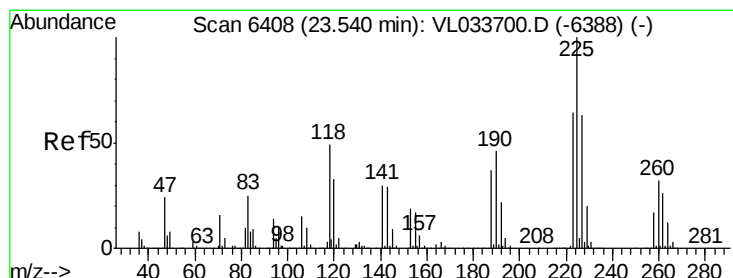
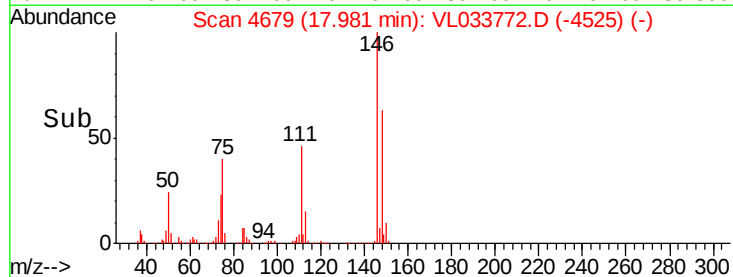
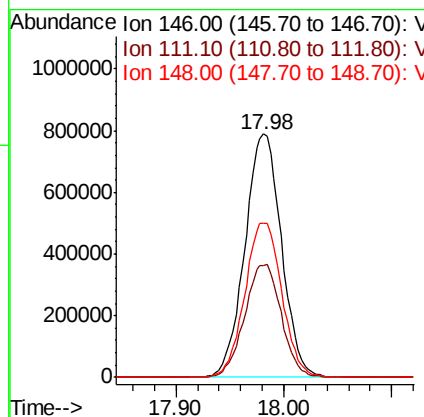
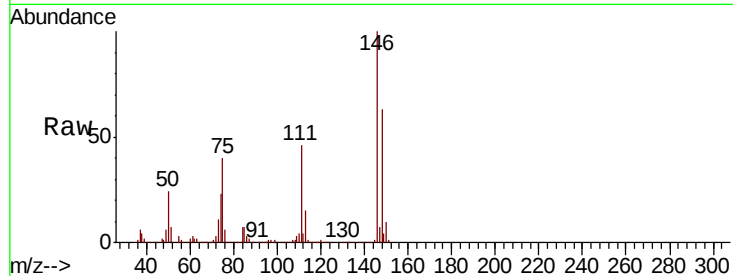
#77
 1,2-Dichlorobenzene
 Concen: 9.981 ppbv
 RT: 17.98 min Scan# 4679
 Delta R.T. -0.01 min
 Lab File: VL033772.D
 Acq: 23 May 2019 13:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0523ABS01DUP

Tot Ion	Ratio	Lower	Upper
146	100		
111	46.6	23.5	70.5
148	64.3	32.1	96.3

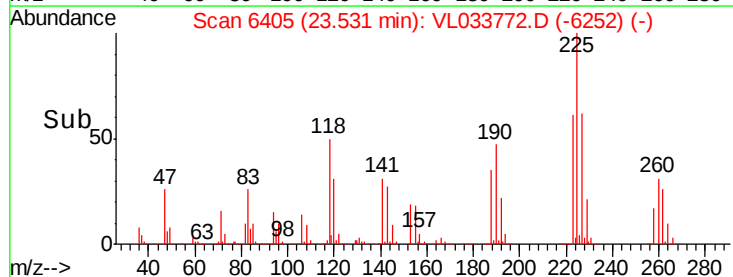
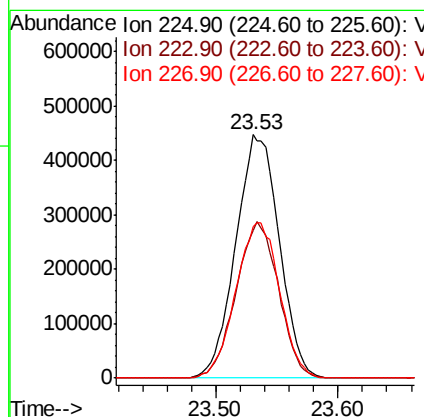
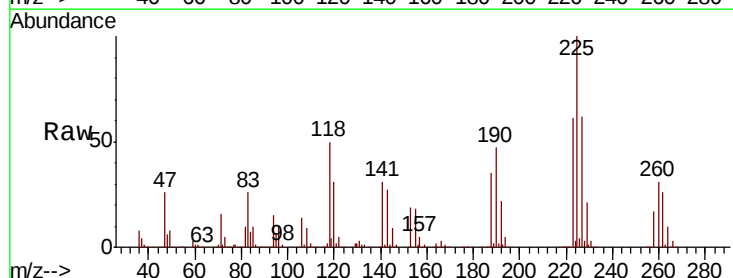
Manual Integrations
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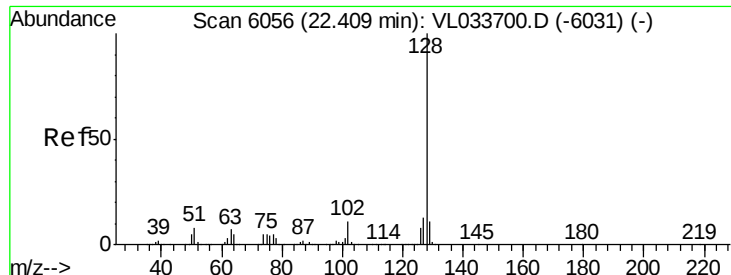
MMDadoda
 5/28/2019 2:53:20 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 7.824 ppbv
 RT: 23.53 min Scan# 6405
 Delta R.T. -0.01 min
 Lab File: VL033772.D
 Acq: 23 May 2019 13:16

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.8	50.2	75.4
227	64.3	50.7	76.1





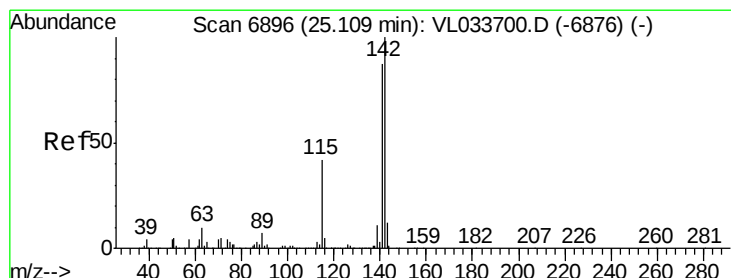
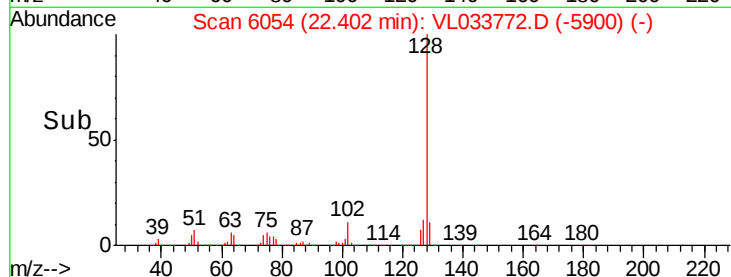
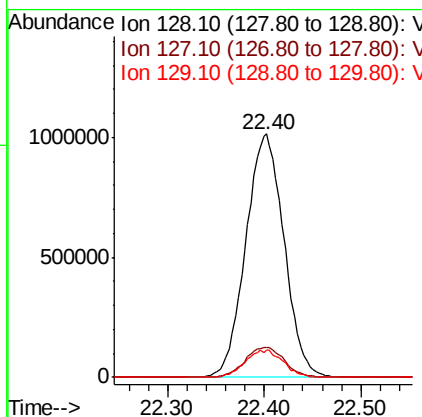
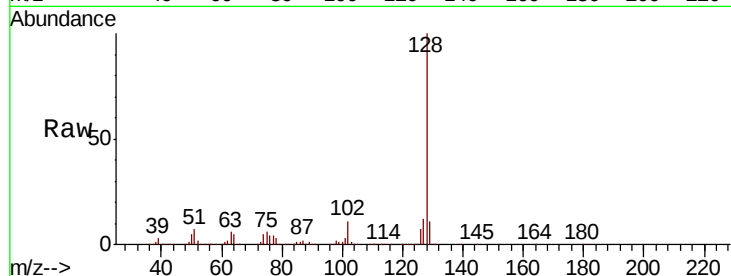
#79
Naphthalene
Concen: 9.249 ppbv
RT: 22.40 min Scan# 6054
Delta R.T. -0.01 min
Lab File: VL033772.D
Acq: 23 May 2019 13:16

Instrument :
MSVOA_L
ClientSampleId :
VL0523ABS01DUP

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.3	10.6	16.0
129	11.0	8.9	13.3

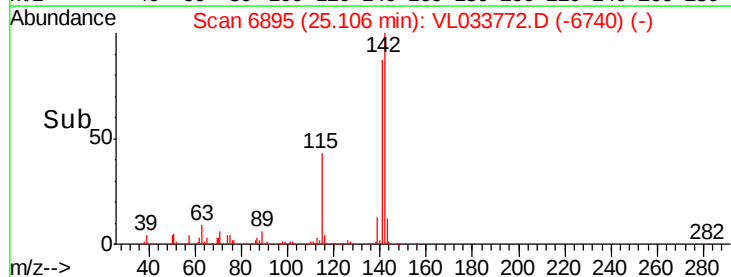
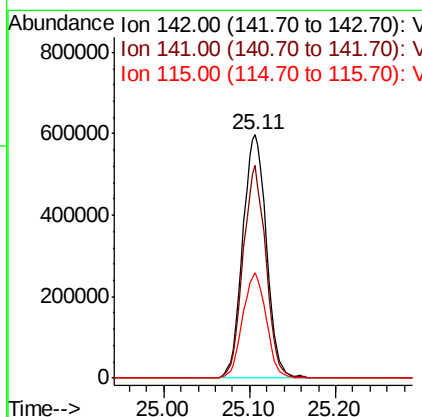
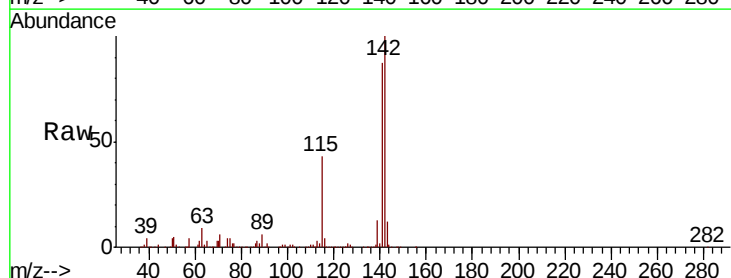
Manual Integrations
APPROVED

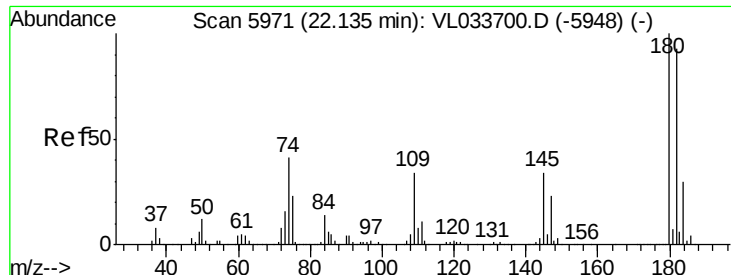
MMDadoda
5/28/2019 2:53:20 AM



#80
Naphthalene, 2-methyl-
Concen: 9.997 ppbv
RT: 25.11 min Scan# 6895
Delta R.T. -0.00 min
Lab File: VL033772.D
Acq: 23 May 2019 13:16

Tgt Ion	Ratio	Lower	Upper
142	100		
141	83.9	67.2	100.8
115	43.1	34.1	51.1





#81
 1,2,4-Trichlorobenzene
 Concen: 8.910 ppbv
 RT: 22.13 min Scan# 5968
 Delta R.T. -0.01 min
 Lab File: VL033772.D
 Acq: 23 May 2019 13:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0523ABS01DUP

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.5	76.1	114.1
184	30.9	24.6	37.0

Manual Integrations
 APPROVED

MMDadoda
 5/28/2019 2:53:20 AM

