

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120418\
 Data File : VL032902.D
 Acq On : 5 Dec 2018 7:51
 Operator : SY/AP
 Sample : VL1204ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1204ABS01

Manual Integrations
 APPROVED

MMDadoda
 12/10/2018 1:02:12 PM

Quant Time: Dec 05 09:44:51 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 07:00:23 2018
 QLast Update : Wed Nov 14 07:00:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1394213	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3546972	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3799595m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2679876	9.43	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1755538	8.760	ppbv	100
3) Chlorodifluoromethane	3.02	51	1058998	9.581	ppbv	96
4) Chloromethane	3.17	50	600445	9.797	ppbv	98
5) Vinyl Chloride	3.30	62	626603	9.648	ppbv	99
6) Bromomethane	3.52	94	389374	9.801	ppbv	92
7) Chloroethane	3.61	64	230267	9.837	ppbv	93
8) Dichlorotetrafluoroethane	3.22	85	1450022	9.182	ppbv	95
9) Propene	3.04	41	501201	11.331	ppbv	100
10) Heptane	8.25	43	1923457	11.390	ppbv	98
11) Trichlorofluoromethane	4.01	101	2027858	10.737	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.56	101	1429810	9.268	ppbv	95
13) Ethanol	3.65	45	126276	8.716	ppbv	98
14) Bromoethene	3.79	108	496050	9.692	ppbv	98
15) Acetone	3.90	43	1096777	8.614	ppbv	99
16) 1,3-Butadiene	3.37	39	512862	10.401	ppbv	92
17) tert-Butyl alcohol	4.36	59	333641	8.355	ppbv	99
18) 1,1-Dichloroethene	4.35	96	538670	7.101	ppbv	98
19) Isopropyl Alcohol	4.03	45	1151871	13.580	ppbv	# 99
20) Methylene Chloride	4.41	84	461164	6.996	ppbv	99
21) Allyl Chloride	4.48	41	874172	8.170	ppbv	98
22) trans-1,2-Dichloroethene	4.97	96	740194	9.992	ppbv	98
23) Vinyl Acetate	5.16	43	2370597	10.214	ppbv	99
24) 1,1-Dichloroethane	5.10	63	1736164	9.409	ppbv	99
25) Ethyl Acetate	5.78	43	3237950	10.911	ppbv	100
26) Hexane	5.79	57	1490498	11.283	ppbv	99
27) Carbon Disulfide	4.62	76	1884260	11.249	ppbv	99
28) Methyl tert-Butyl Ether	5.12	73	2243240	10.649	ppbv	99
29) Chloroform	5.86	83	2324337	9.872	ppbv	96
30) Cyclohexane	7.25	84	1306747	11.310	ppbv	96
31) cis-1,2-Dichloroethene	5.65	61	1313473	9.890	ppbv	97
32) 1,1,1-Trichloroethane	6.62	97	2337801	9.059	ppbv	98
34) 2-Butanone	5.34	43	1886305	10.253	ppbv	99
35) Carbon Tetrachloride	7.14	117	2477295	8.688	ppbv	99
36) Benzene	7.01	78	3085330	10.923	ppbv	97
37) 1,2-Dichloroethane	6.42	62	1708866	8.988	ppbv	97
38) Trichloroethene	7.97	130	1244542	10.888	ppbv	97
39) 1,2-Dichloropropane	7.75	63	1175710	10.925	ppbv	92
40) 1,4-Dioxane	7.96	88	449184	11.686	ppbv	80
41) Tetrahydrofuran	6.15	42	1256420	11.906	ppbv	98
42) Bromodichloromethane	7.93	83	2524312	9.794	ppbv	98
43) Methyl Methacrylate	8.15	69	1221406	11.583	ppbv	96

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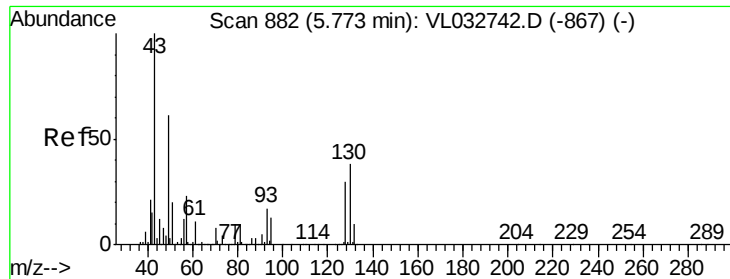
Manual Integrations
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Quant Time: Dec 05 09:44:51 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 07:00:23 2018
 QLast Update : Wed Nov 14 07:00:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	5150492	10.912	ppbv	98
45) t-1,3-Dichloropropene	9.42	75	1693279	11.967	ppbv	100
46) cis-1,3-Dichloropropene	8.84	75	1891024	11.062	ppbv	96
47) 1,1,2-Trichloroethane	9.62	97	1274878	10.019	ppbv	97
48) Dibromochloromethane	10.46	129	2319830	10.726	ppbv	99
49) Bromoform	13.21	173	2080586	11.648	ppbv	99
50) 4-Methyl-2-Pentanone	8.88	43	2956930	10.291	ppbv	100
51) 2-Hexanone	10.28	43	2244267	12.123	ppbv	99
52) Tetrachloroethene	11.38	164	1127495	11.475	ppbv	98
53) Toluene	9.95	91	3621179	12.289	ppbv	100
54) 1,2-Dibromoethane	10.77	107	1968425	10.943	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.29	131	1735836	9.795	ppbv	98
57) Chlorobenzene	12.31	112	2952935	10.153	ppbv	98
58) Ethyl Benzene	12.87	91	5198749	11.369	ppbv	98
59) m/p-Xylene	13.16	91	8454786m	20.770	ppbv	
60) o-Xylene	13.86	91	4107831	10.036	ppbv	97
61) Styrene	13.70	104	3266111	12.258	ppbv	96
62) Isopropylbenzene	14.83	105	6075753	10.982	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	2798652	8.771	ppbv	98
64) n-propylbenzene	15.73	120	1522363	10.462	ppbv	90
65) tert-Butylbenzene	16.92	119	4910223	9.901	ppbv	95
66) Benzyl Chloride	17.16	91	2741049	9.997	ppbv	99
67) sec-Butylbenzene	17.47	105	6849274	9.583	ppbv	99
69) p-Isopropyltoluene	17.82	119	5559700	9.783	ppbv	97
70) n-Butylbenzene	18.72	91	5389070	9.339	ppbv	99
71) 2-Chlorotoluene	15.62	91	4416926	10.705	ppbv	97
72) 4-Ethyltoluene	16.01	105	4506958	10.046	ppbv	98
73) 1,3,5-Trimethylbenzene	16.16	105	4270418	9.736	ppbv	99
74) 1,2,4-Trimethylbenzene	16.94	105	4254693	9.064	ppbv	93
75) 1,3-Dichlorobenzene	17.17	146	2422291	8.997	ppbv	99
76) 1,4-Dichlorobenzene	17.32	146	2377119	9.452	ppbv	99
77) 1,2-Dichlorobenzene	18.00	146	2348238	9.427	ppbv	98
78) Hexachloro-1,3-Butadiene	23.55	225	1009449	7.509	ppbv	100
79) Naphthalene	22.42	128	3323063	10.777	ppbv	100
80) Naphthalene, 2-methyl-	25.12	142	768805	9.955	ppbv	96
81) 1,2,4-Trichlorobenzene	22.14	180	1648264	10.644	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.01 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

Instrument :

MSVOA_L

ClientSampleId :

VL1204ABS01

Tot Ion: 49 Resp: 1394213

Ion Ratio Lower Upper

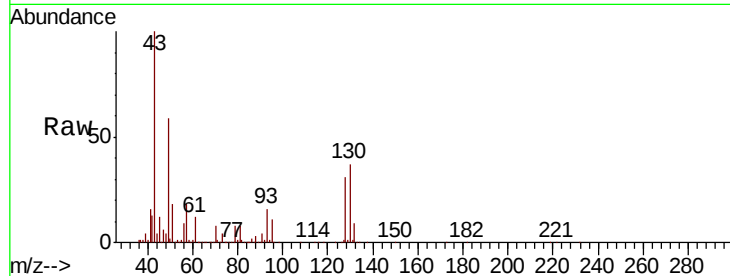
49 100

128 52.0 24.9 74.6

130 66.7 31.4 94.2

Manual Integrations
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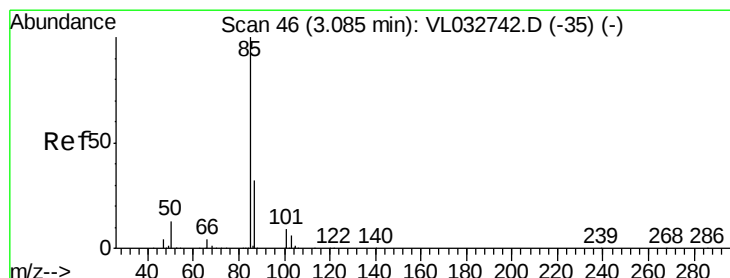
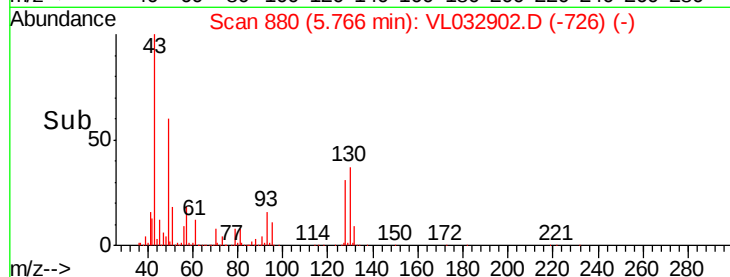
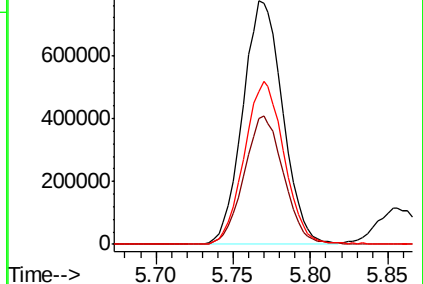
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 8.760 ppbv

RT: 3.08 min Scan# 45

Delta R.T. -0.00 min

Lab File: VL032902.D

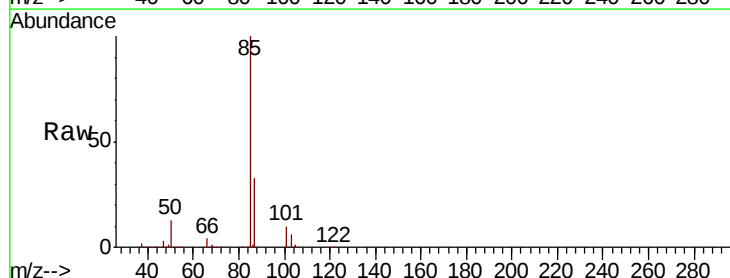
Acq: 5 Dec 2018 7:51

Tgt Ion: 85 Resp: 1755538

Ion Ratio Lower Upper

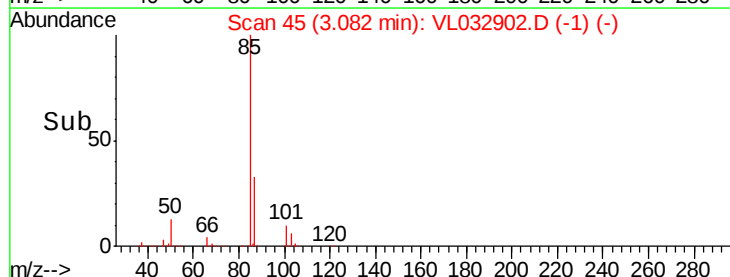
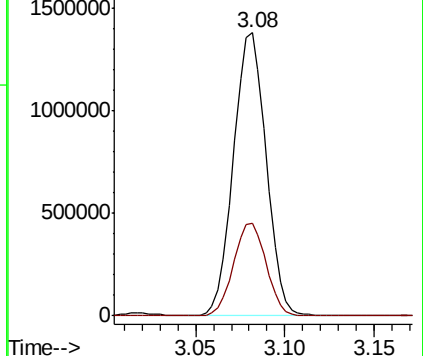
85 100

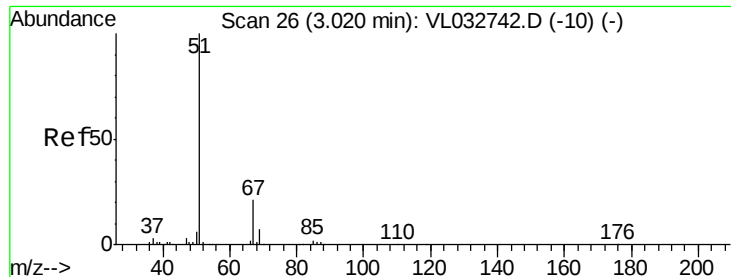
87 32.6 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.581 ppbv

RT: 3.02 min Scan# 25

Delta R.T. -0.00 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

Instrument :

MSVOA_L

ClientSampleId :

VL1204ABS01

Tot Ion: 51 Resp: 1058998

Ion Ratio Lower Upper

51 100

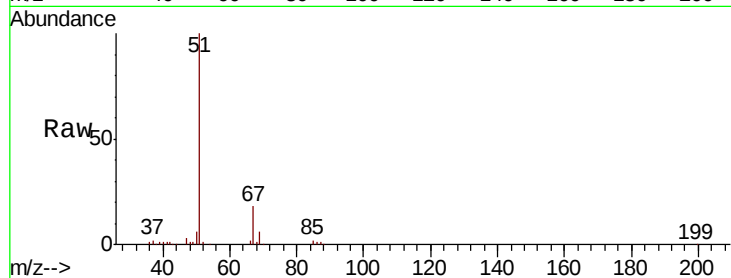
67 18.1 16.1 24.1

Manual Integrations

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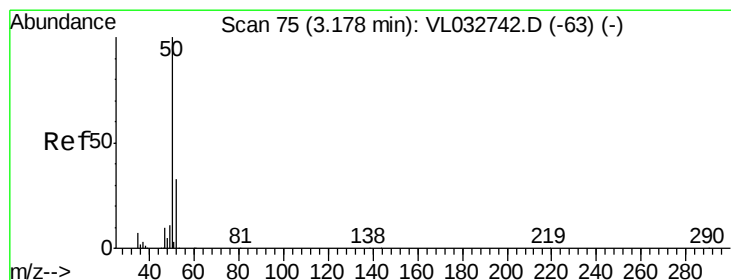
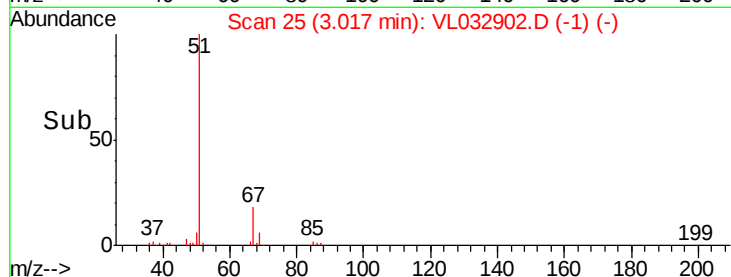
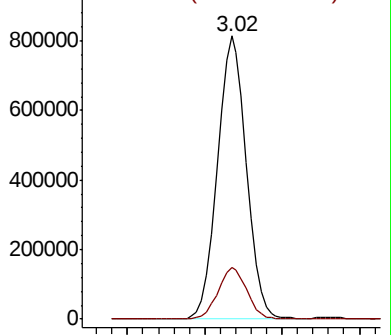
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.797 ppbv

RT: 3.17 min Scan# 74

Delta R.T. -0.00 min

Lab File: VL032902.D

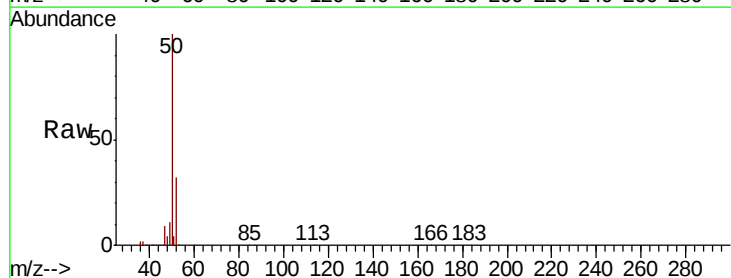
Acq: 5 Dec 2018 7:51

Tgt Ion: 50 Resp: 600445

Ion Ratio Lower Upper

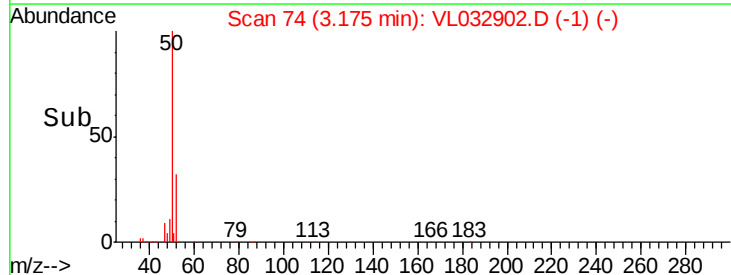
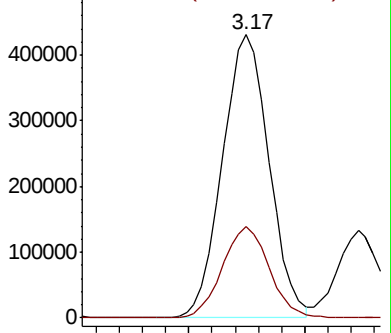
50 100

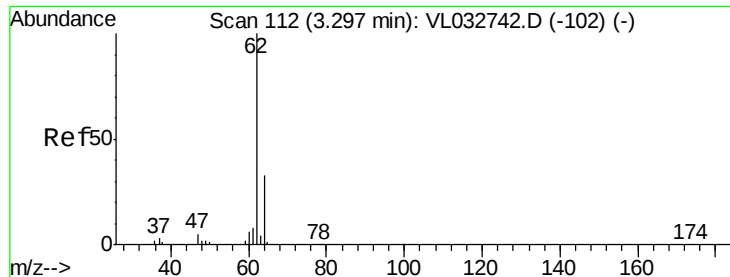
52 32.2 26.6 40.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.648 ppbv

RT: 3.30 min Scan# 112

Delta R.T. 0.00 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

Instrument :

MSVOA_L

ClientSampleId :

VL1204ABS01

Tot Ion: 62 Resp: 626603

Ion Ratio Lower Upper

62 100

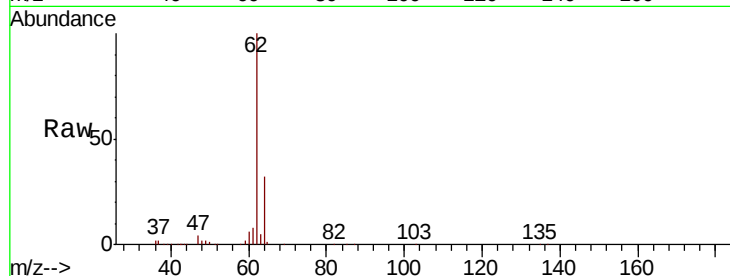
64 32.3 26.2 39.4

Manual Integrations

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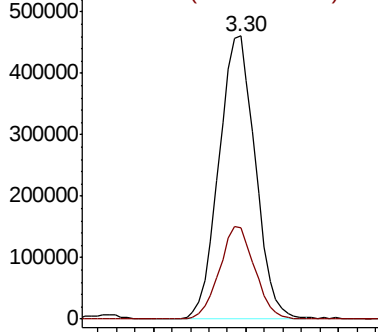
MMDadoda

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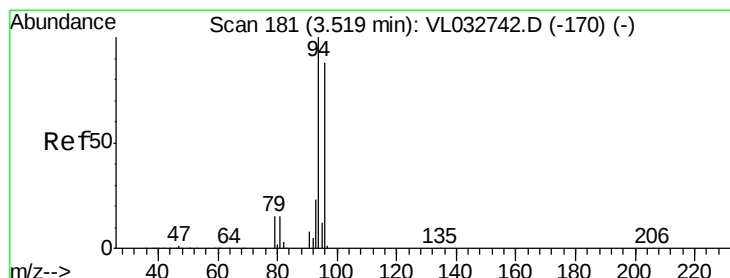
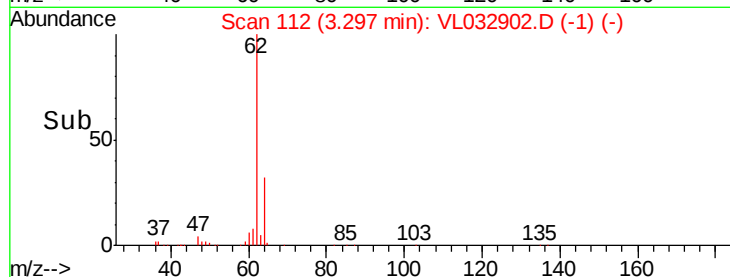


Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



Time-->



#6

Bromomethane

Concen: 9.801 ppbv

RT: 3.52 min Scan# 181

Delta R.T. 0.00 min

Lab File: VL032902.D

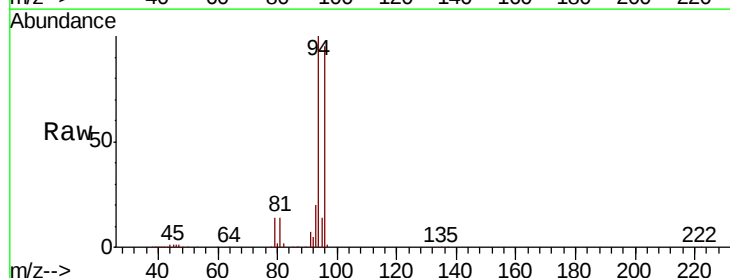
Acq: 5 Dec 2018 7:51

Tgt Ion: 94 Resp: 389374

Ion Ratio Lower Upper

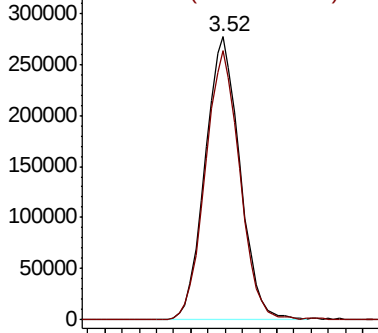
94 100

96 95.1 70.2 105.2

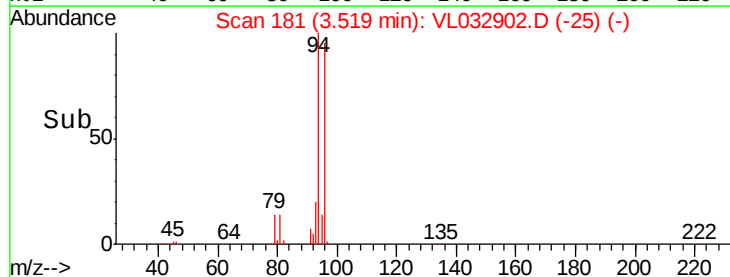


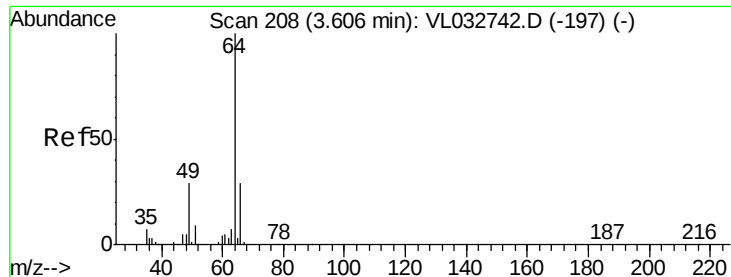
Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0



Time-->





#7

Chloroethane

Concen: 9.837 ppbv

RT: 3.61 min Scan# 208

Delta R.T. 0.00 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

Instrument :

MSVOA_L

ClientSampleId :

VL1204ABS01

Tot Ion: 64 Resp: 230267

Ion Ratio Lower Upper

64 100

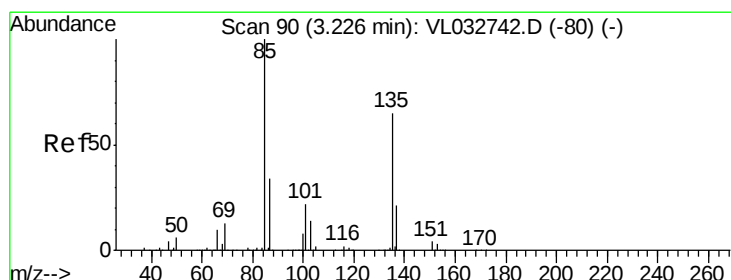
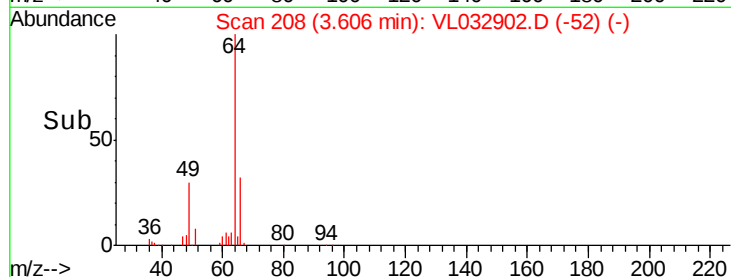
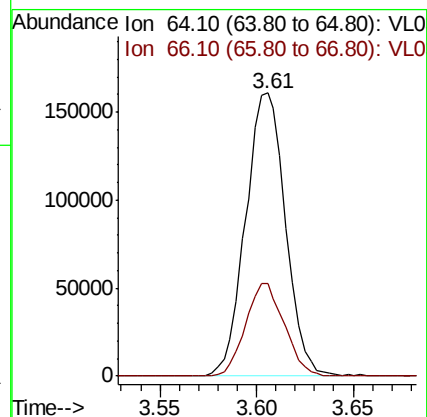
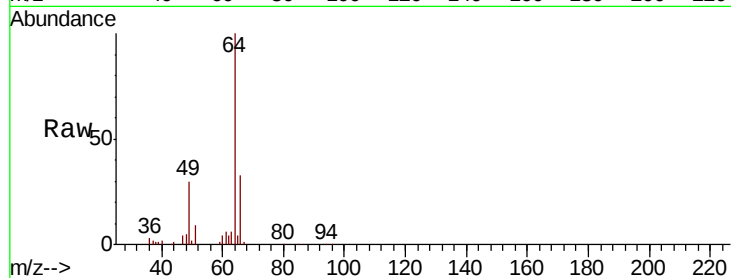
66 32.6 23.2 34.8

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 9.182 ppbv

RT: 3.22 min Scan# 89

Delta R.T. -0.00 min

Lab File: VL032902.D

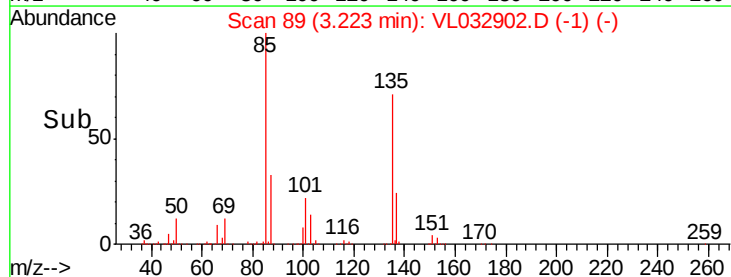
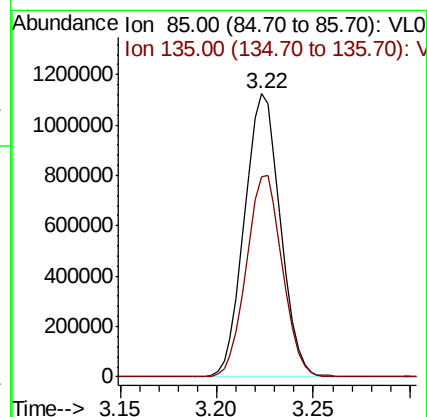
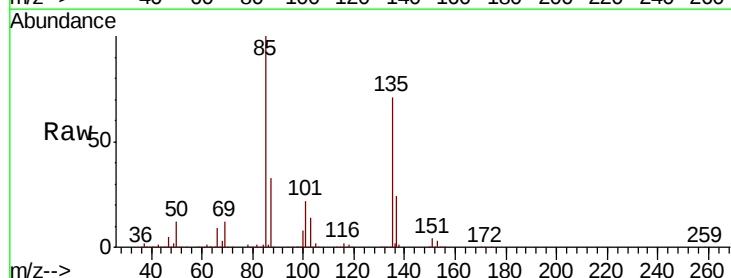
Acq: 5 Dec 2018 7:51

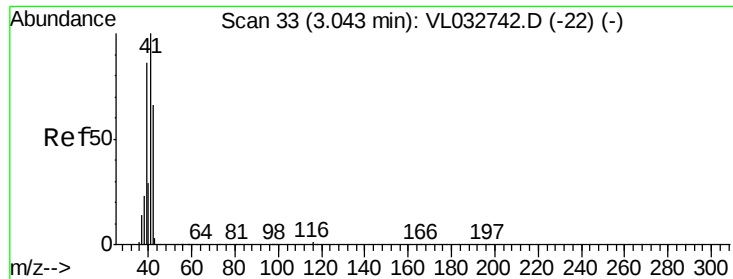
Tgt Ion: 85 Resp: 1450022

Ion Ratio Lower Upper

85 100

135 71.7 53.8 80.8





#9

Propene

Concen: 11.331 ppbv

RT: 3.04 min Scan# 32

Delta R.T. -0.00 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

Instrument :

MSVOA_L

ClientSampleId :

VL1204ABS01

Tot Ion: 41 Resp: 501201

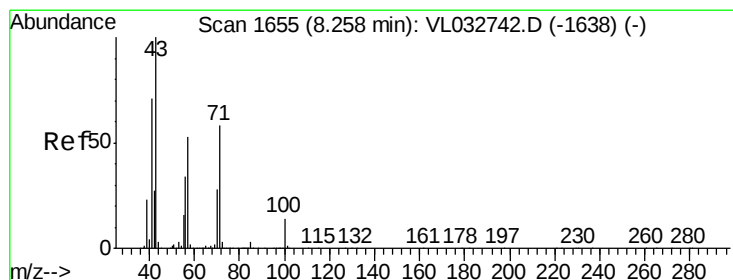
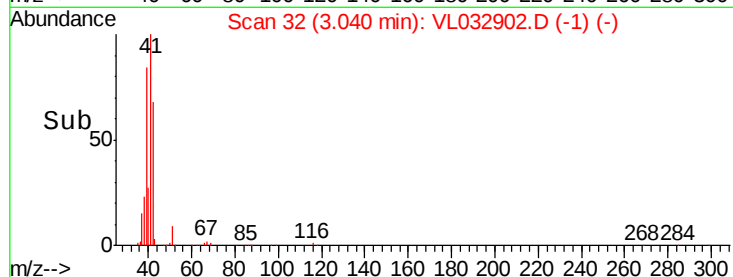
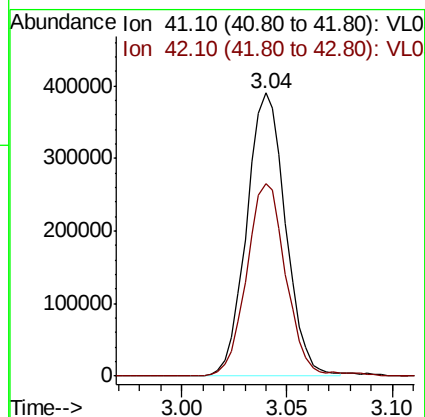
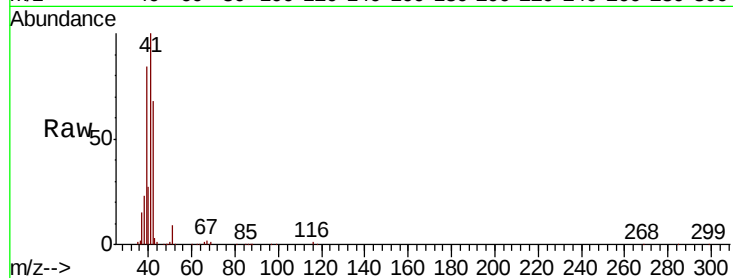
Ion Ratio Lower Upper

41 100

42 69.0 55.0 82.6

Manual Integrations
APPROVED

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12/10/2018 1:02:12 PM



#10

Heptane

Concen: 11.390 ppbv

RT: 8.25 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VL032902.D

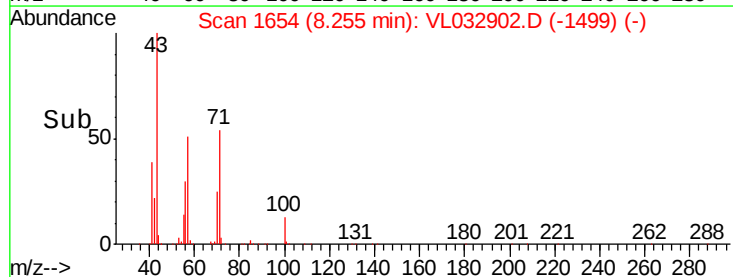
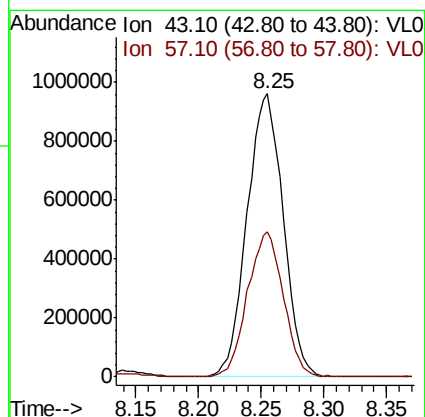
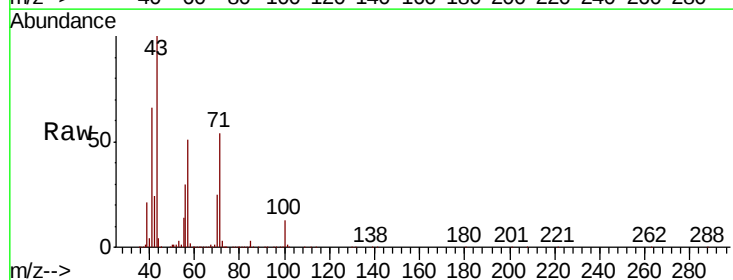
Acq: 5 Dec 2018 7:51

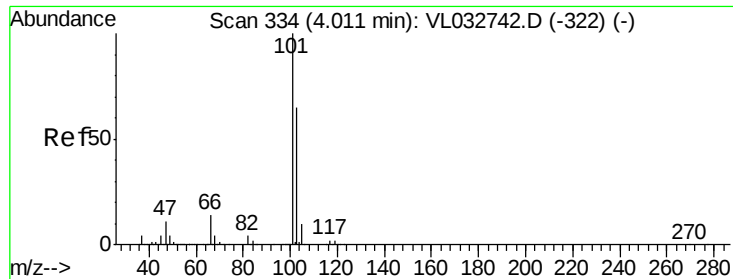
Tgt Ion: 43 Resp: 1923457

Ion Ratio Lower Upper

43 100

57 50.7 41.8 62.8





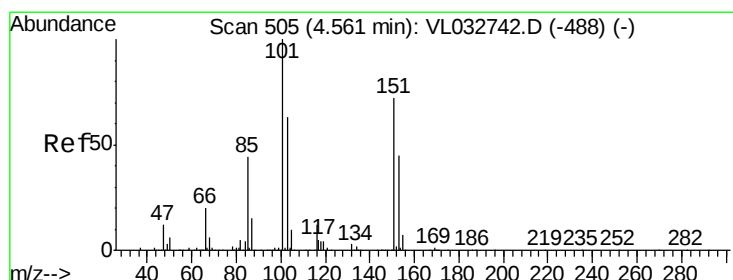
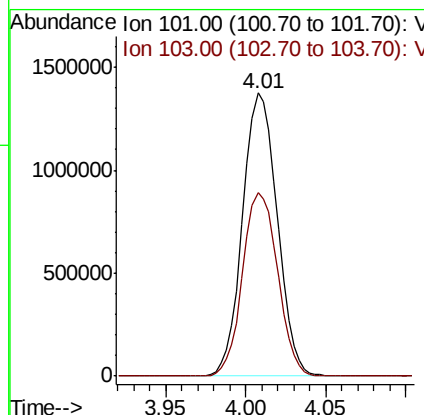
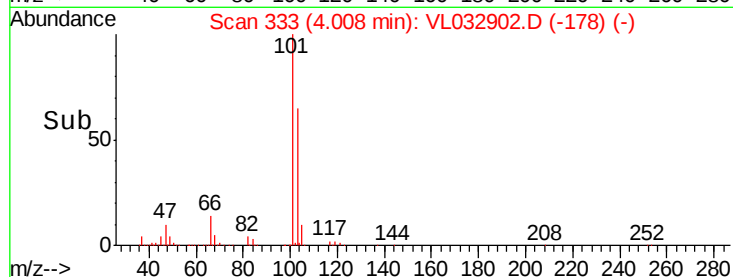
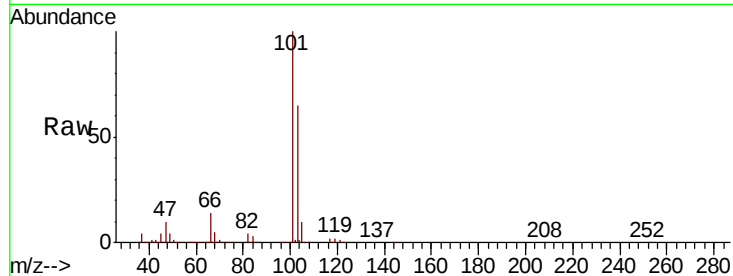
#11
 Trichlorofluoromethane
 Concen: 10.737 ppbv
 RT: 4.01 min Scan# 333
 Delta R.T. -0.00 min
 Lab File: VL032902.D
 Acq: 5 Dec 2018 7:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1204ABS01

Tot Ion:101 Resp: 2027858
 Ion Ratio Lower Upper
 101 100
 103 64.9 51.6 77.4

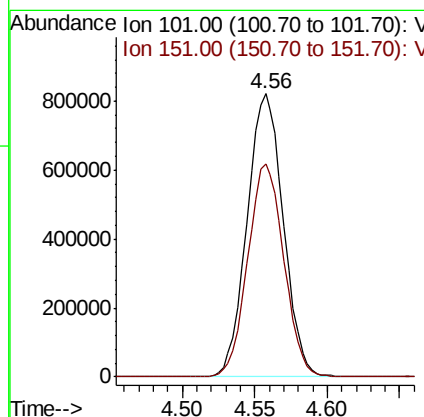
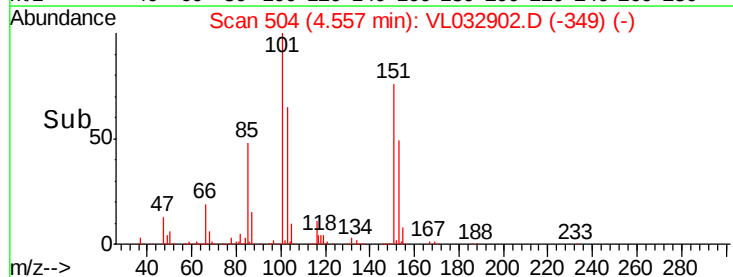
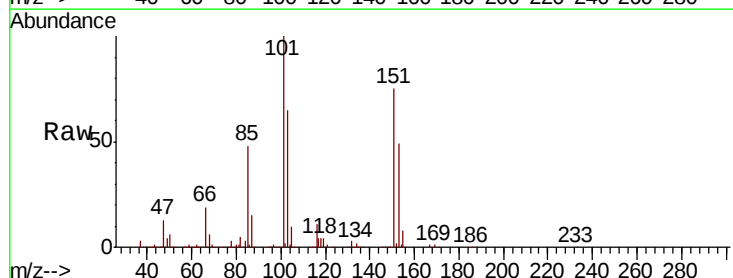
Manual Integrations
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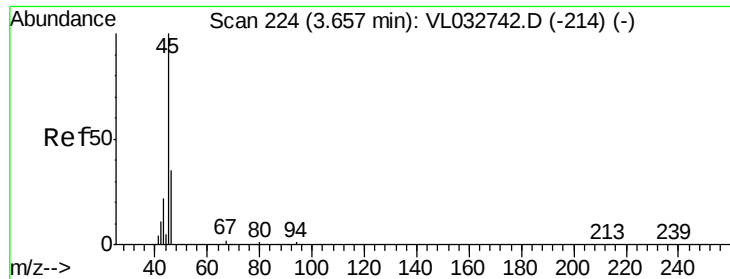
MMDadoda
 12/10/2018 1:02:12 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.268 ppbv
 RT: 4.56 min Scan# 504
 Delta R.T. -0.00 min
 Lab File: VL032902.D
 Acq: 5 Dec 2018 7:51

Tgt Ion:101 Resp: 1429810
 Ion Ratio Lower Upper
 101 100
 151 75.0 56.7 85.1





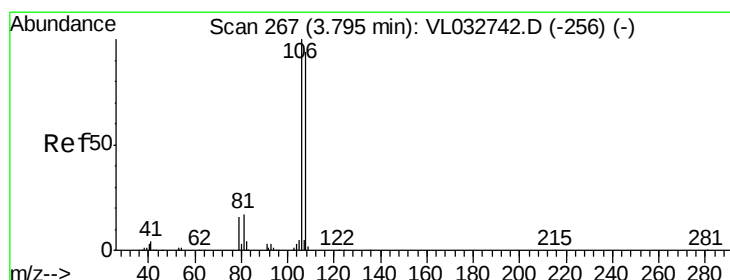
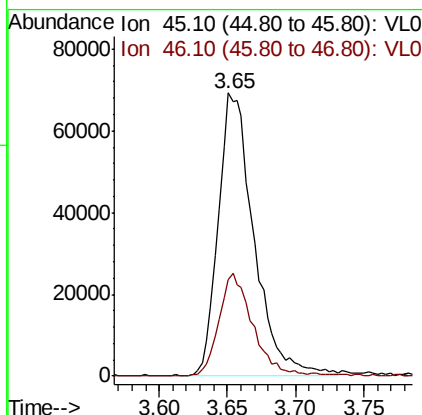
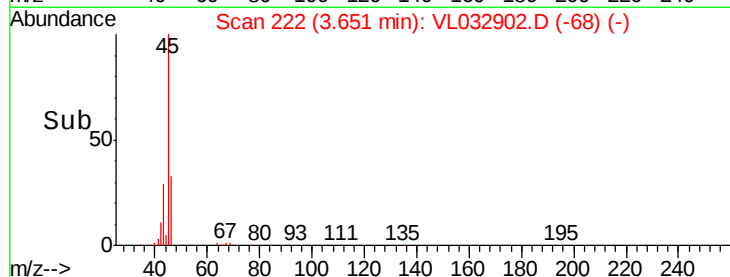
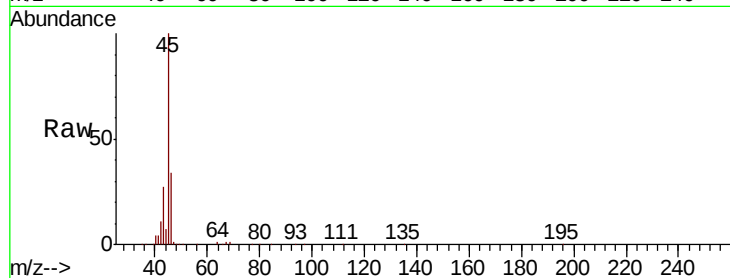
#13
Ethanol
Concen: 8.716 ppbv
RT: 3.65 min Scan# 222
Delta R.T. -0.01 min
Lab File: VL032902.D
Acq: 5 Dec 2018 7:51

Instrument :
MSVOA_L
ClientSampleId :
VL1204ABS01

Tot Ion	Ratio	Lower	Upper
45	100		
46	34.9	14.5	57.9

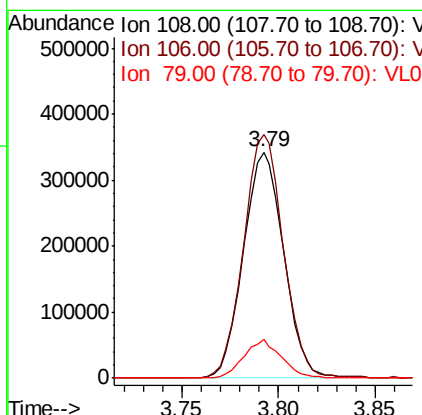
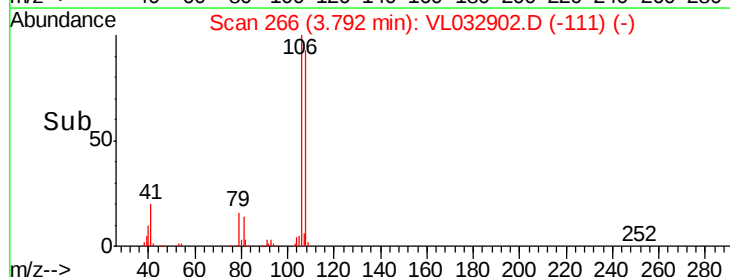
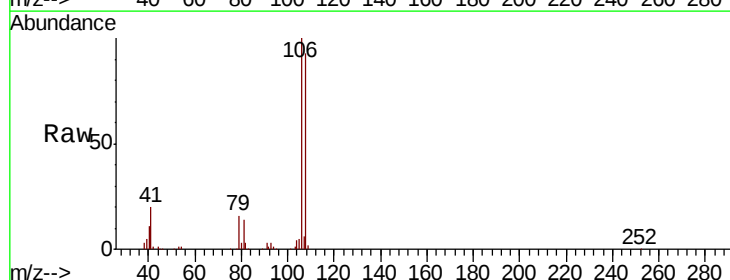
Manual Integrations
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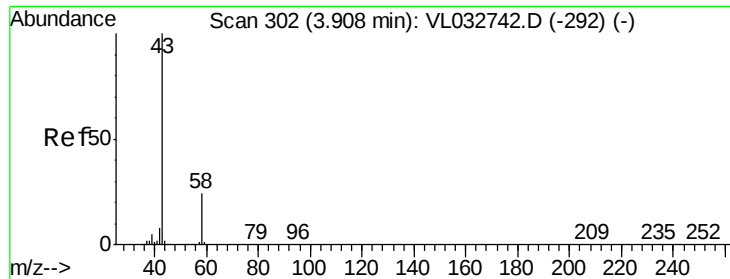
MMDadoda
12/10/2018 1:02:12 PM



#14
Bromoethene
Concen: 9.692 ppbv
RT: 3.79 min Scan# 266
Delta R.T. -0.00 min
Lab File: VL032902.D
Acq: 5 Dec 2018 7:51

Tgt Ion	Ratio	Lower	Upper
108	100		
106	107.4	84.9	127.3
79	16.3	14.2	21.4





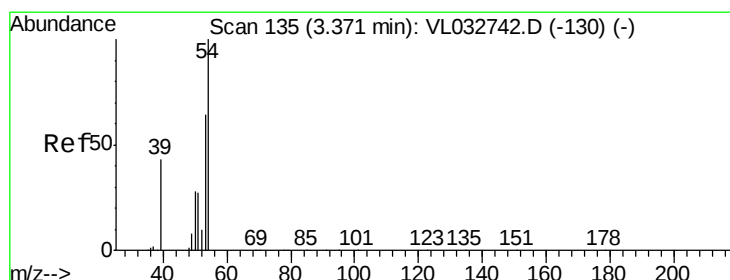
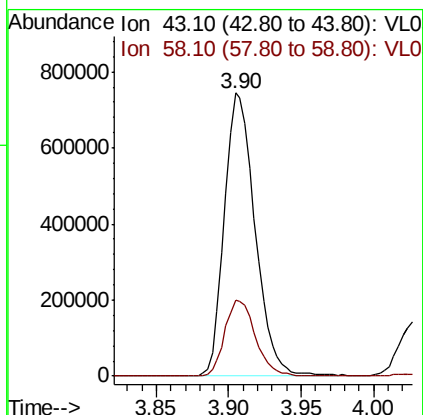
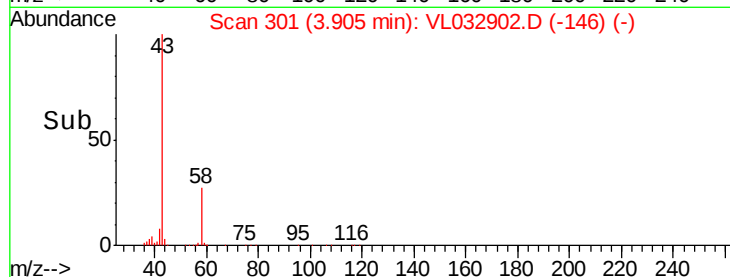
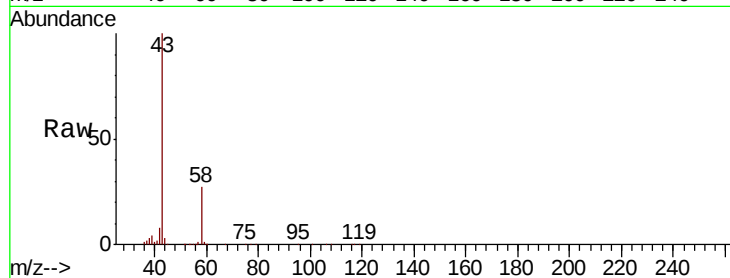
#15
Acetone
Concen: 8.614 ppbv
RT: 3.90 min Scan# 301
Delta R.T. -0.00 min
Lab File: VL032902.D
Acq: 5 Dec 2018 7:51

Instrument :
MSVOA_L
ClientSampleId :
VL1204ABS01

Tot Ion: 43 Resp: 1096777
Ion Ratio Lower Upper
43 100
58 26.8 21.1 31.7

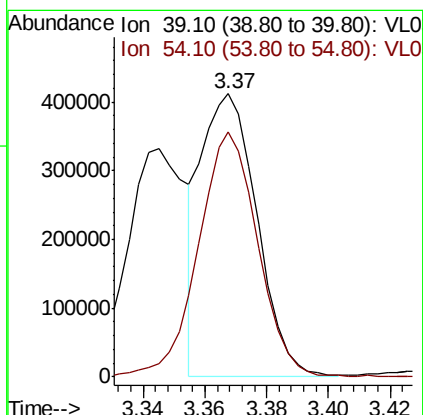
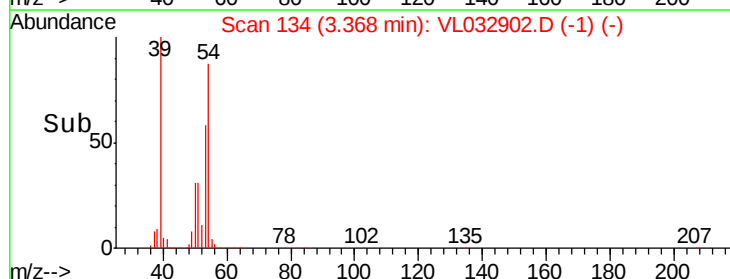
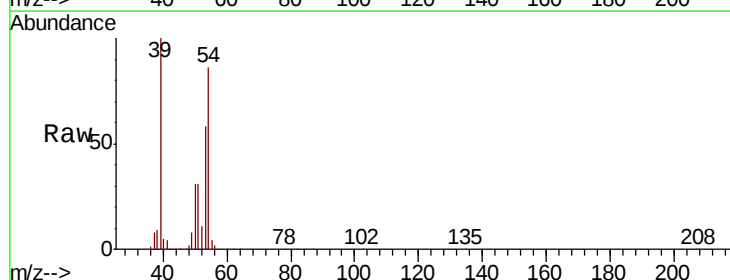
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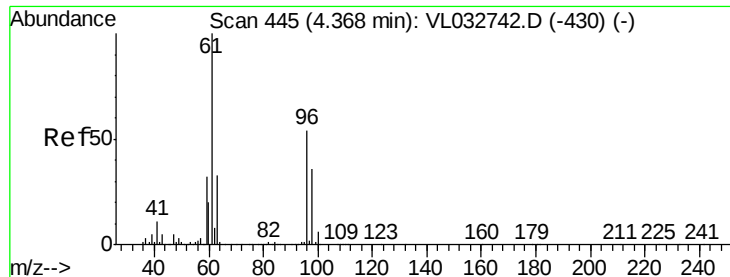
MMDadoda
12/10/2018 1:02:12 PM



#16
1,3-Butadiene
Concen: 10.401 ppbv
RT: 3.37 min Scan# 134
Delta R.T. -0.00 min
Lab File: VL032902.D
Acq: 5 Dec 2018 7:51

Tgt Ion: 39 Resp: 512862
Ion Ratio Lower Upper
39 100
54 93.4 68.9 103.3





#17

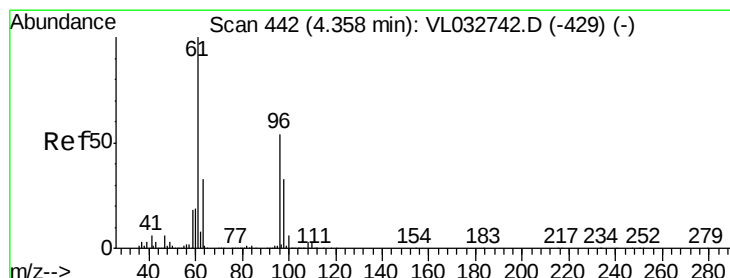
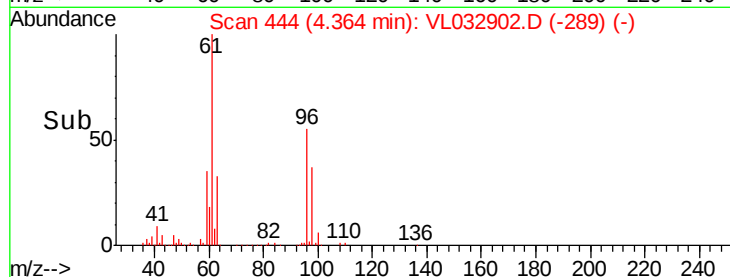
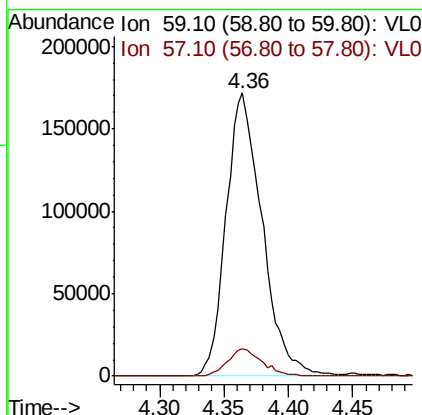
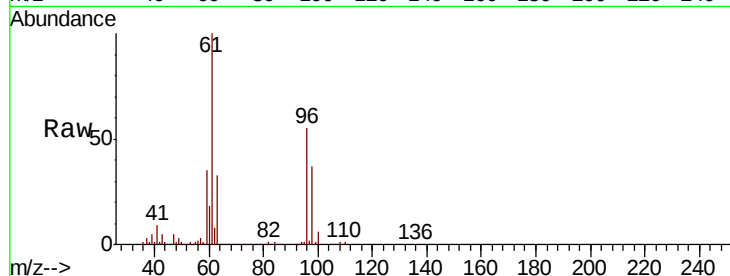
tert-Butyl alcohol
Concen: 8.355 ppbv
RT: 4.36 min Scan# 444
Delta R.T. -0.00 min
Lab File: VL032902.D
Acq: 5 Dec 2018 7:51

Instrument :
MSVOA_L
ClientSampleId :
VL1204ABS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.4	7.8	11.8

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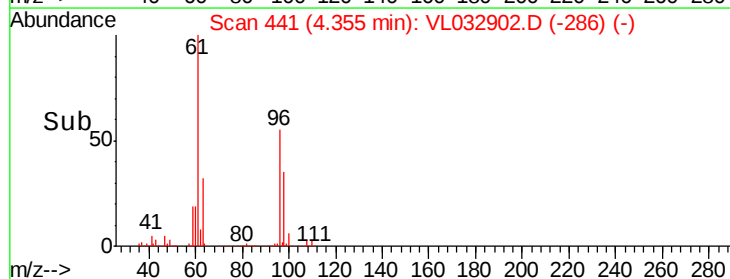
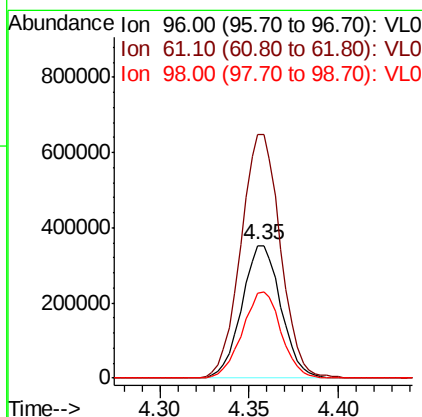
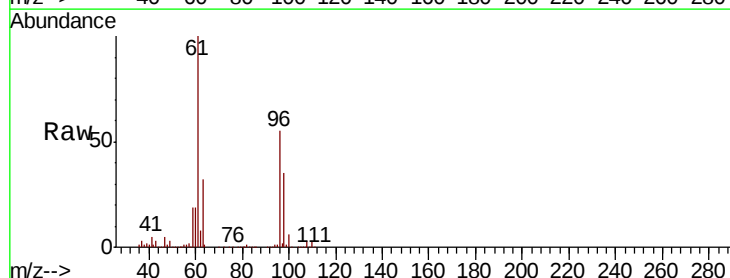
MMDadoda
12/10/2018 1:02:12 PM

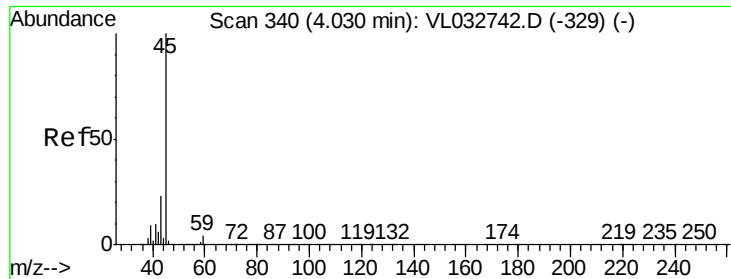


#18

1,1-Dichloroethene
Concen: 7.101 ppbv
RT: 4.35 min Scan# 441
Delta R.T. -0.00 min
Lab File: VL032902.D
Acq: 5 Dec 2018 7:51

Tgt Ion	Ratio	Lower	Upper
96	100		
61	183.4	148.5	222.7
98	64.0	48.6	72.8





#19

Isopropyl Alcohol

Concen: 13.580 ppbv

RT: 4.03 min Scan# 340

Delta R.T. 0.00 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

Instrument :

MSVOA_L

ClientSampleId :

VL1204ABS01

Tot Ion: 45 Resp: 1151871

Ion Ratio Lower Upper

45 100

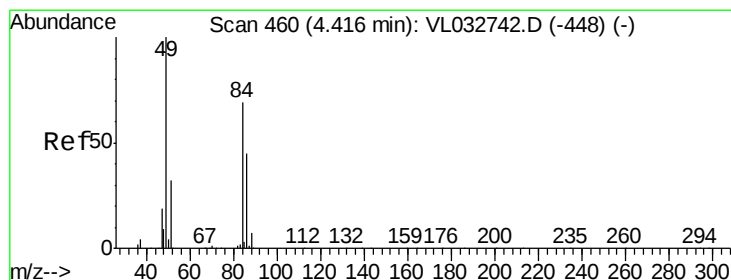
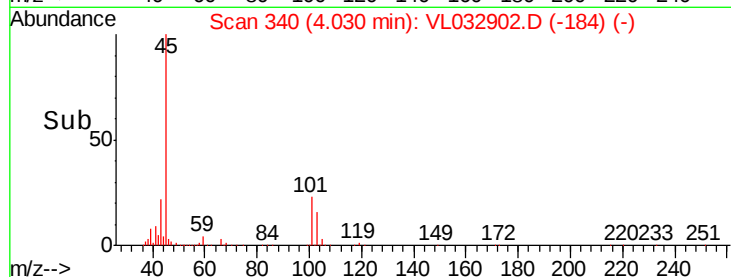
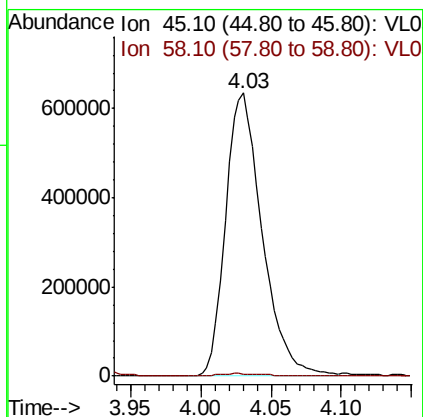
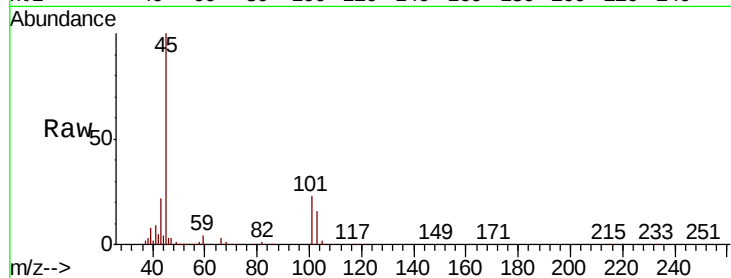
58 1.2 1.4 2.0#

Manual Integrations

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#20

Methylene Chloride

Concen: 6.996 ppbv

RT: 4.41 min Scan# 459

Delta R.T. -0.00 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

Tgt Ion: 84 Resp: 461164

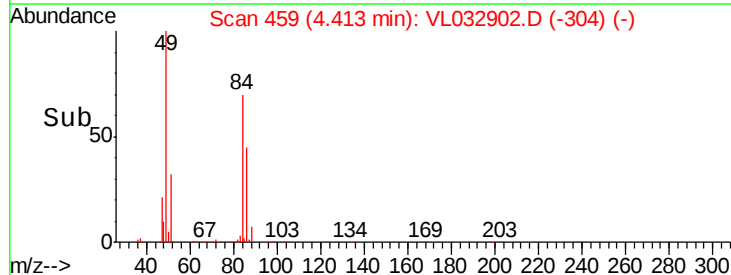
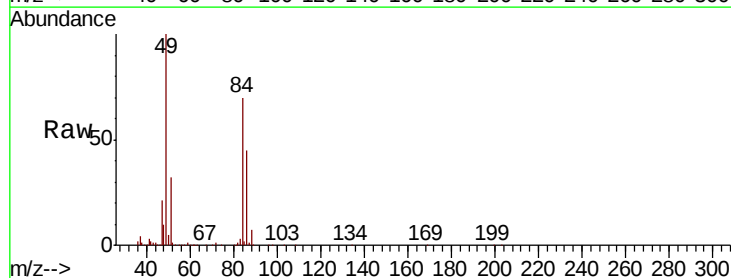
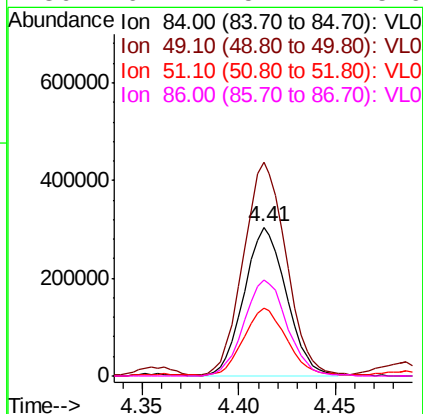
Ion Ratio Lower Upper

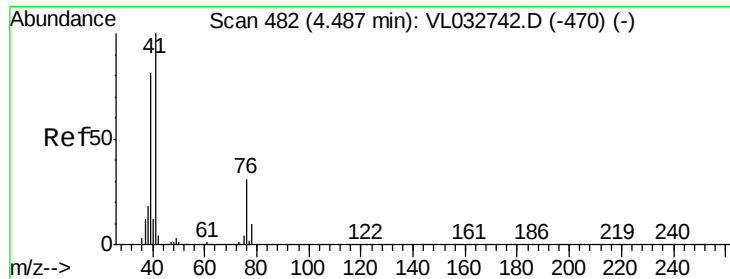
84 100

49 143.1 115.8 173.6

51 45.1 36.9 55.3

86 64.7 52.4 78.6





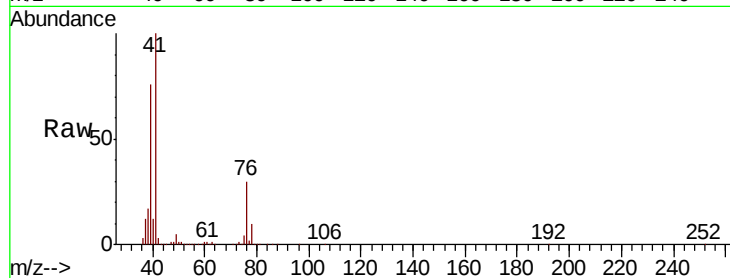
#21
Allvl Chloride
Concen: 8.170 ppbv
RT: 4.48 min Scan# 481
Delta R.T. -0.00 min
Lab File: VL032902.D
Acq: 5 Dec 2018 7:51

Instrument :
MSVOA_L
ClientSampleId :
VL1204ABS01

Tot Ion	Ratio	Lower	Upper
41	100		
76	30.5	24.4	36.6
39	77.2	63.5	95.3

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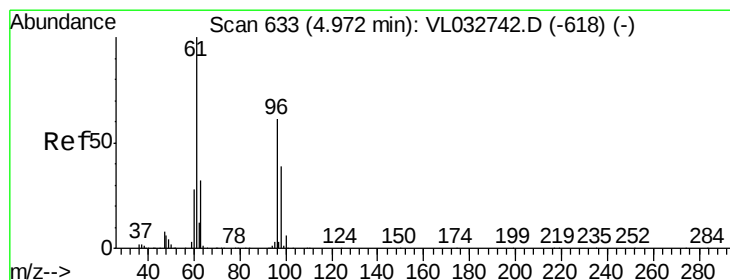
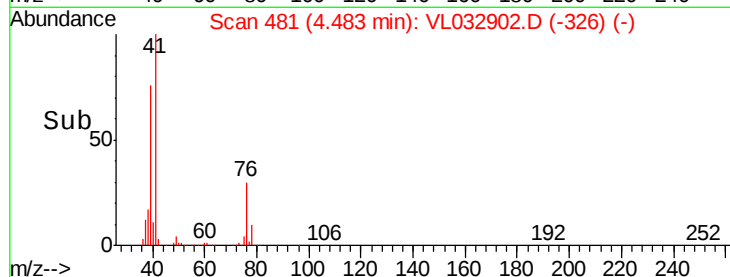
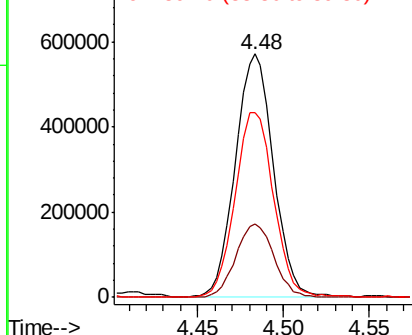


Abundance

Ion 41.10 (40.80 to 41.80): VL0

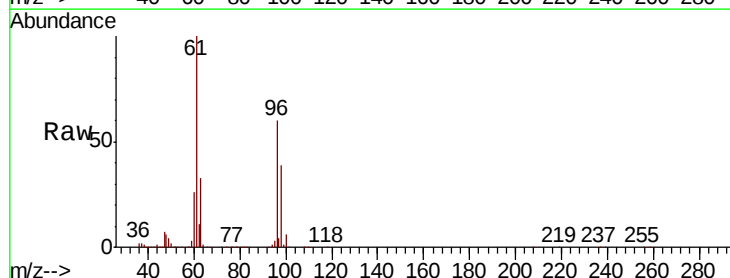
Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0



#22
trans-1,2-Dichloroethene
Concen: 9.992 ppbv
RT: 4.97 min Scan# 632
Delta R.T. -0.00 min
Lab File: VL032902.D
Acq: 5 Dec 2018 7:51

Tgt Ion	Ratio	Lower	Upper
96	100		
61	165.7	130.2	195.2
98	64.0	50.2	75.2

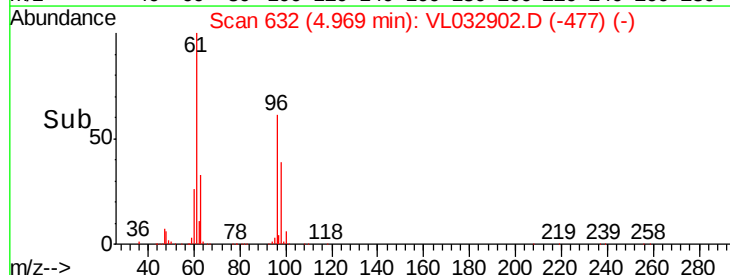
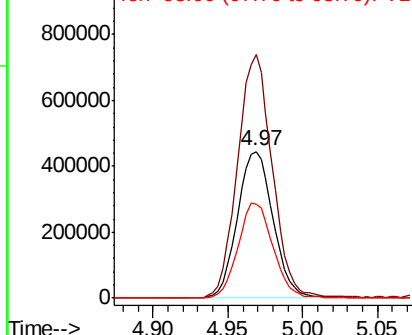


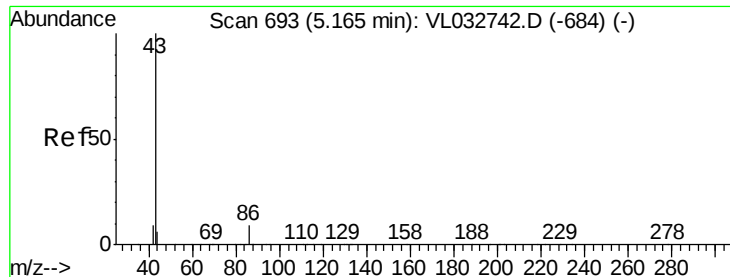
Abundance

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: 10.214 ppbv

RT: 5.16 min Scan# 692

Delta R.T. -0.00 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

Instrument :

MSVOA_L

ClientSampleId :

VL1204ABS01

Tot Ion: 43 Resp: 2370597

Ion Ratio Lower Upper

43 100

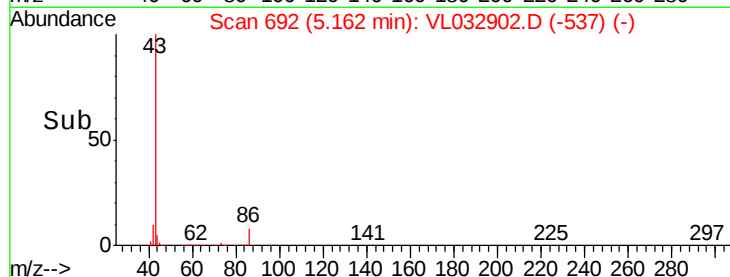
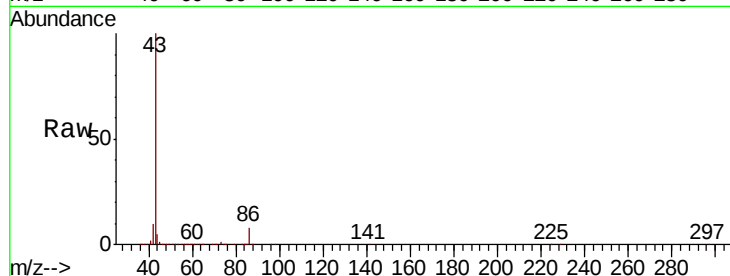
86 8.0 6.2 9.4

42 9.9 7.8 11.6

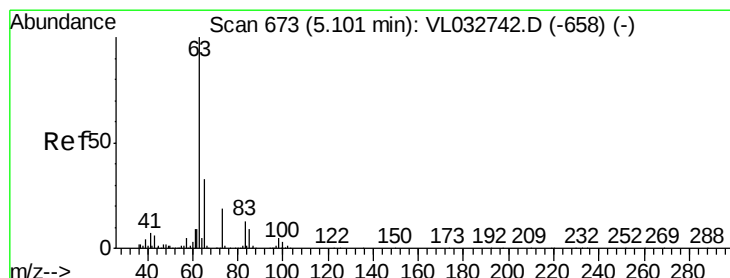
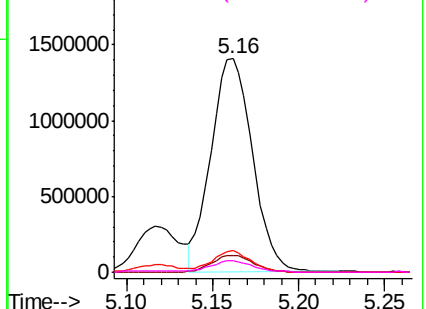
44 5.3 4.4 6.6

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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: 9.409 ppbv

RT: 5.10 min Scan# 672

Delta R.T. -0.00 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

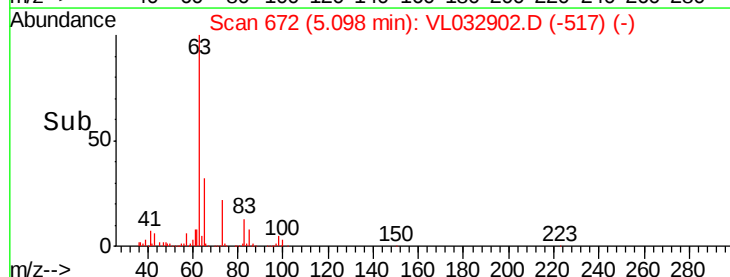
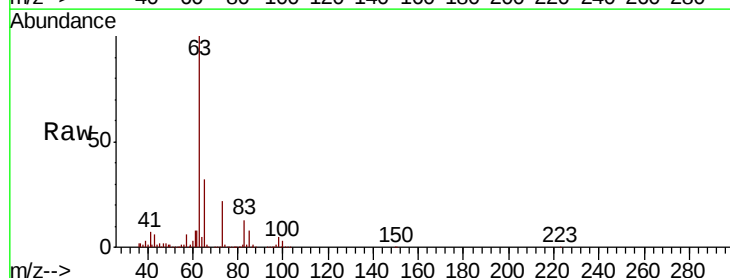
Tgt Ion: 63 Resp: 1736164

Ion Ratio Lower Upper

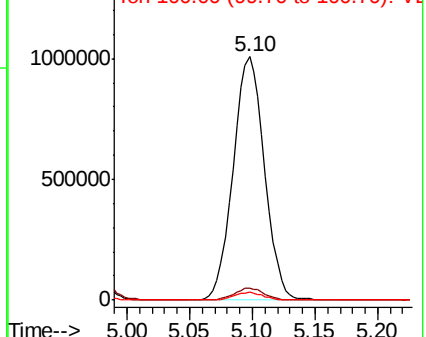
63 100

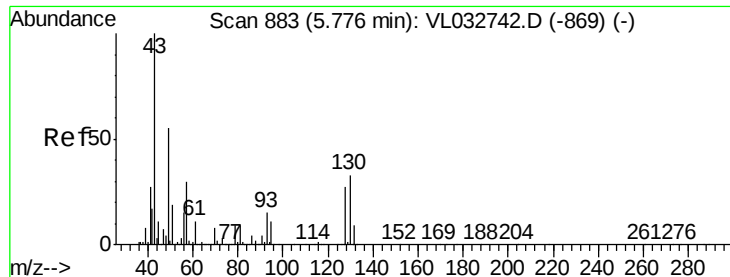
98 4.7 2.3 6.8

100 3.2 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





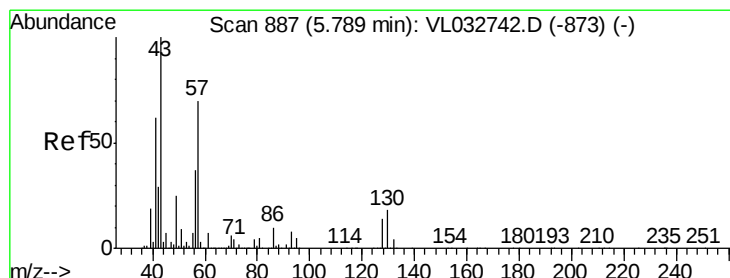
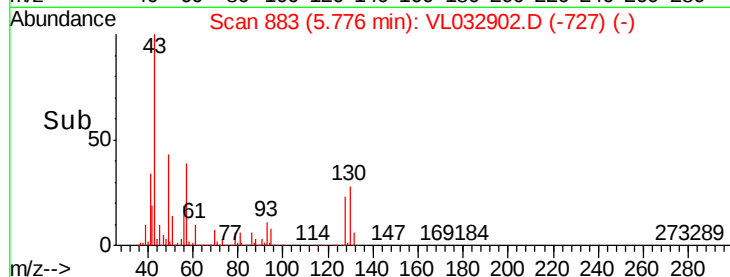
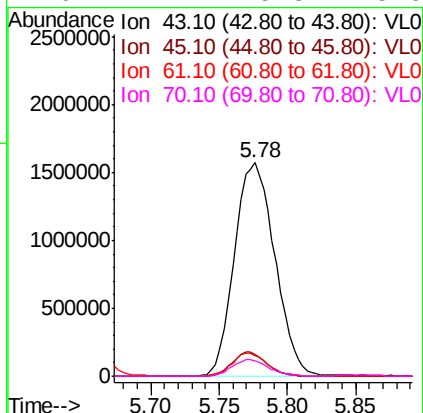
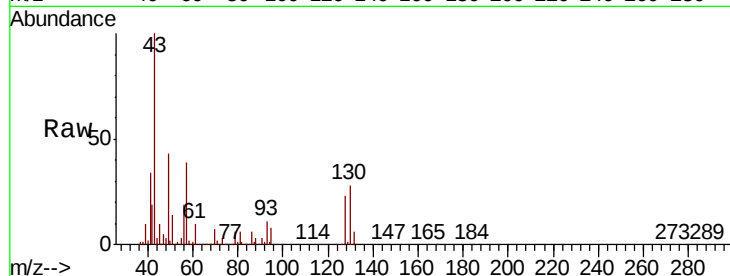
#25
Ethyl Acetate
Concen: 10.911 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.00 min
Lab File: VL032902.D
Acq: 5 Dec 2018 7:51

Instrument :
MSVOA_L
ClientSampleId :
VL1204ABS01

Tot Ion	43	Resp	3237950
Ion	Ratio	Lower	Upper
43	100		
45	9.7	7.9	11.9
61	9.6	7.8	11.6
70	7.1	5.8	8.6

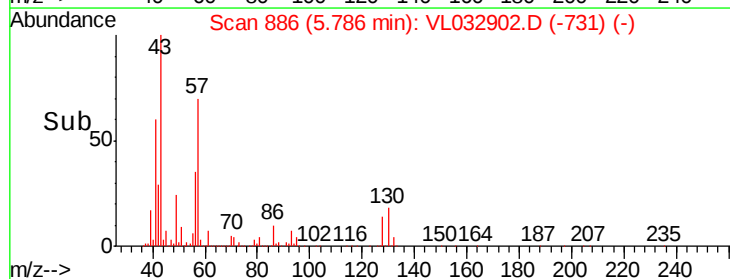
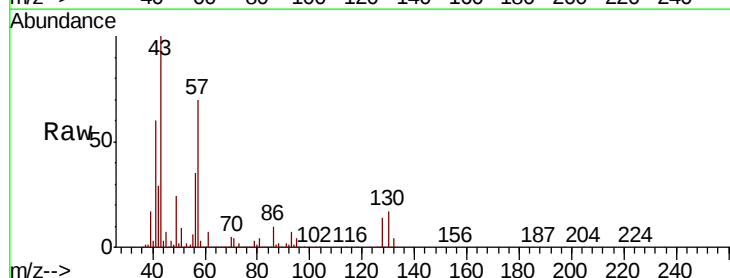
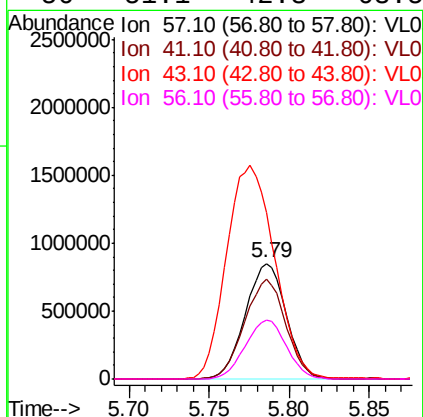
Manual Integrations
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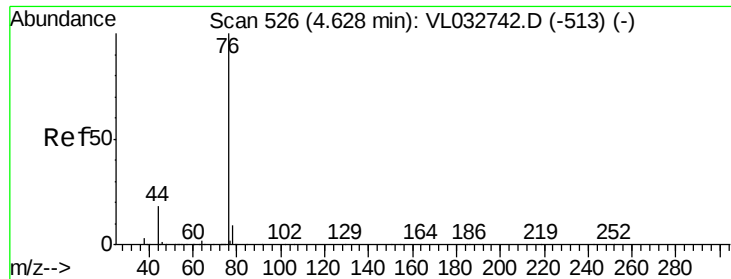
MMDadoda
12/10/2018 1:02:12 PM



#26
Hexane
Concen: 11.283 ppbv
RT: 5.79 min Scan# 886
Delta R.T. -0.00 min
Lab File: VL032902.D
Acq: 5 Dec 2018 7:51

Tgt Ion	57	Resp	1490498
Ion	Ratio	Lower	Upper
57	100		
41	87.0	70.3	105.5
43	217.7	174.0	261.0
56	51.1	42.3	63.5





#27

Carbon Disulfide

Concen: 11.249 ppbv

RT: 4.62 min Scan# 525

Delta R.T. -0.00 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

Instrument :

MSVOA_L

ClientSampleId :

VL1204ABS01

Tot Ion: 76 Resp: 1884260

Ion Ratio Lower Upper

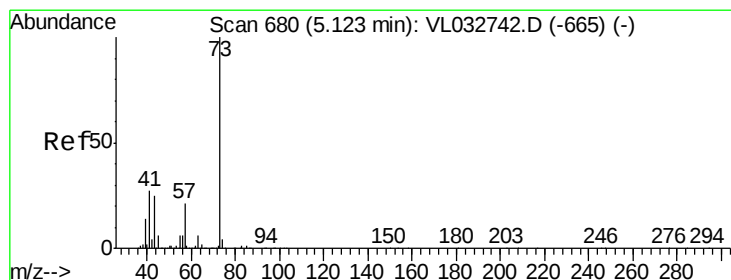
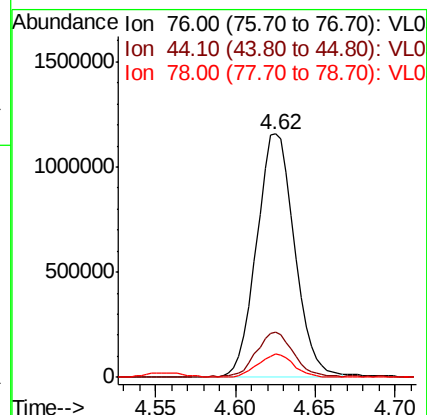
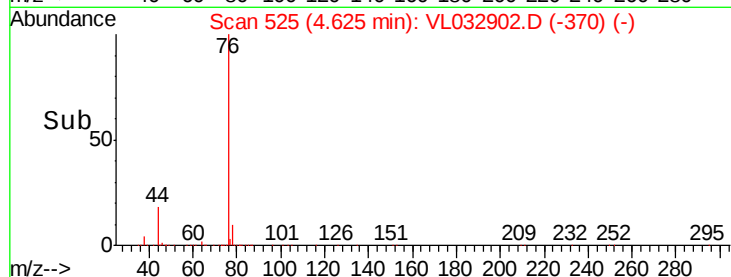
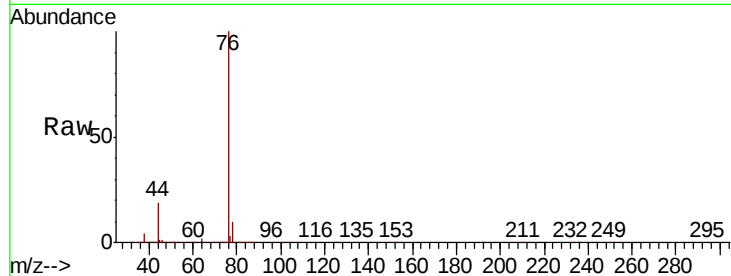
76 100

44 18.3 14.4 21.6

78 9.5 7.7 11.5

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#28

Methyl tert-Butyl Ether

Concen: 10.649 ppbv

RT: 5.12 min Scan# 679

Delta R.T. -0.00 min

Lab File: VL032902.D

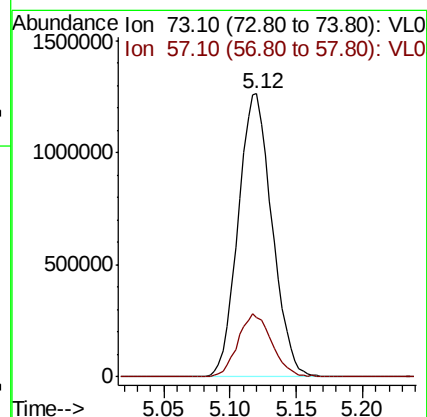
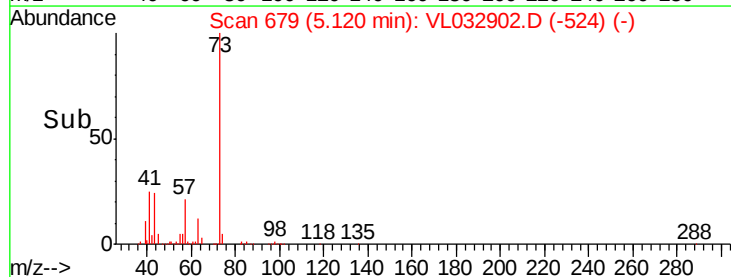
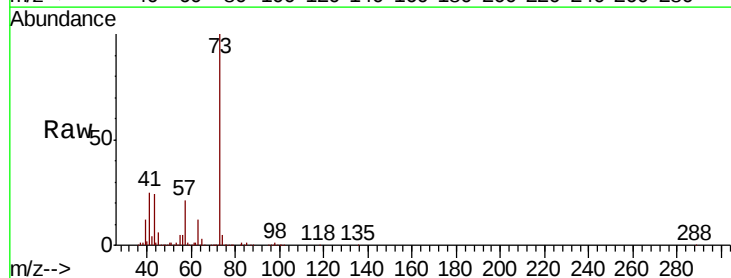
Acq: 5 Dec 2018 7:51

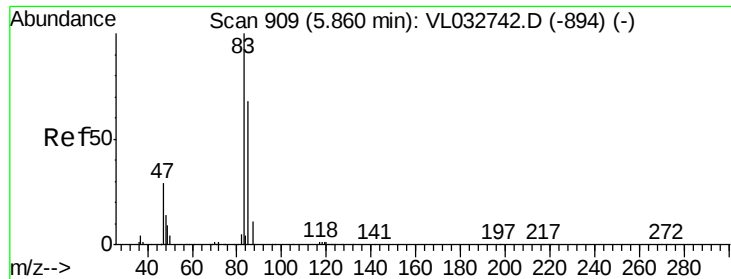
Tgt Ion: 73 Resp: 2243240

Ion Ratio Lower Upper

73 100

57 22.4 17.5 26.3





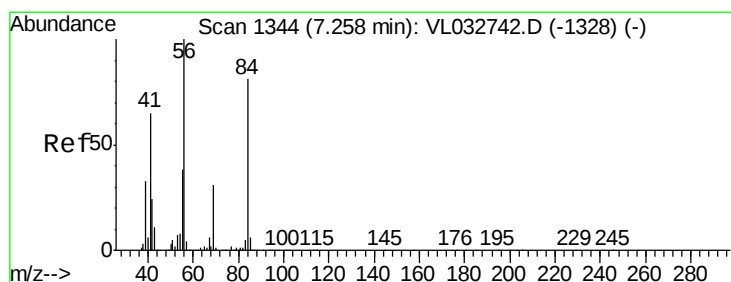
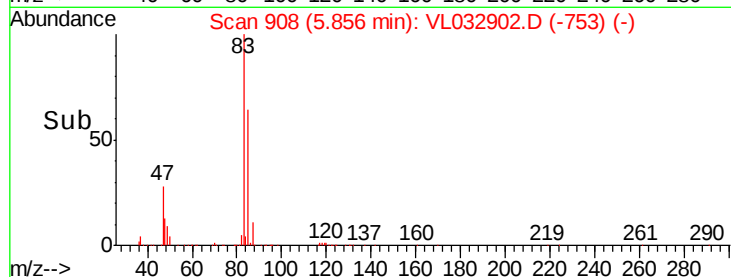
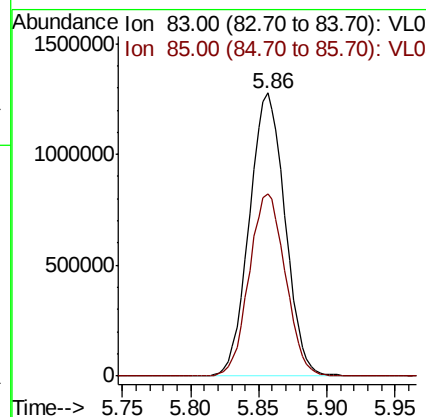
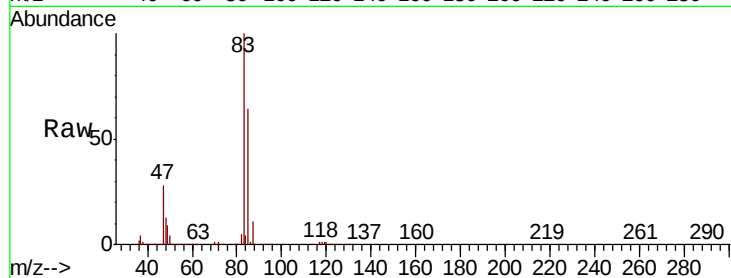
#29
Chloroform
Concen: 9.872 ppbv
RT: 5.86 min Scan# 908
Delta R.T. -0.00 min
Lab File: VL032902.D
Acq: 5 Dec 2018 7:51

Instrument :
MSVOA_L
ClientSampleId :
VL1204ABS01

Tot Ion: 83 Resp: 2324337
Ion Ratio Lower Upper
83 100
85 64.4 54.2 81.4

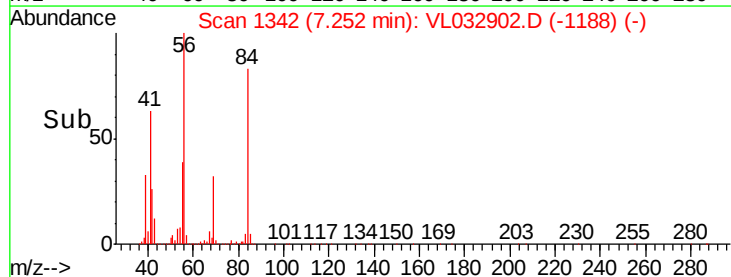
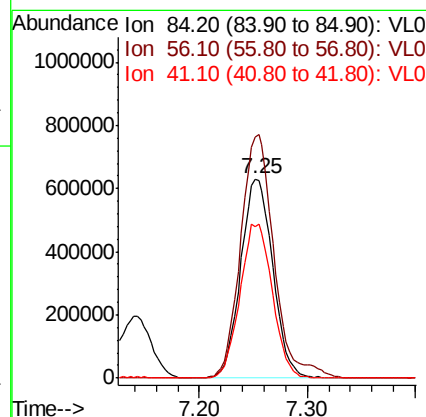
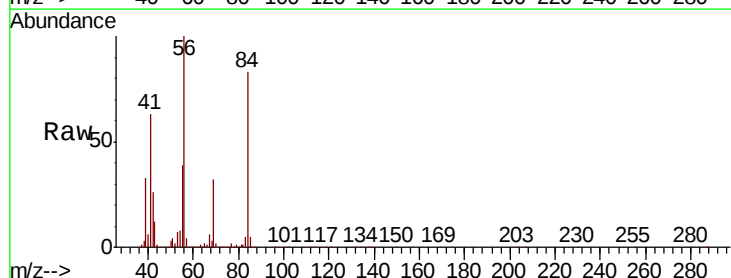
Manual Integrations
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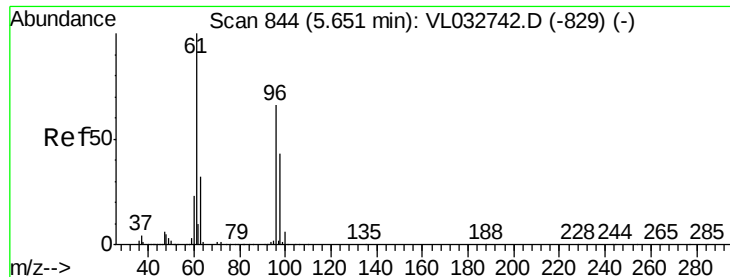
MMDadoda
12/10/2018 1:02:12 PM



#30
Cyclohexane
Concen: 11.310 ppbv
RT: 7.25 min Scan# 1342
Delta R.T. -0.01 min
Lab File: VL032902.D
Acq: 5 Dec 2018 7:51

Tgt Ion: 84 Resp: 1306747
Ion Ratio Lower Upper
84 100
56 127.5 105.0 157.4
41 77.9 65.3 97.9





#31

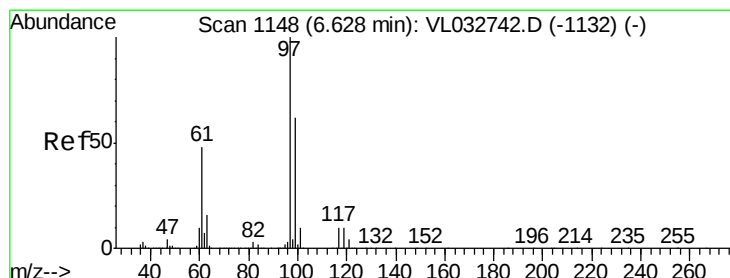
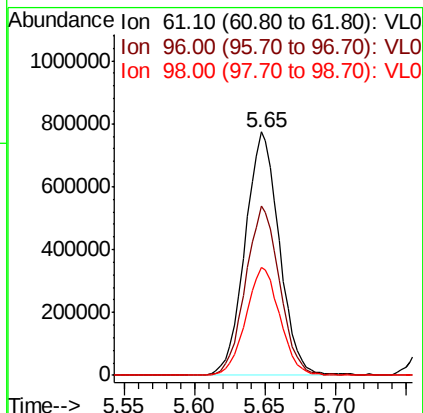
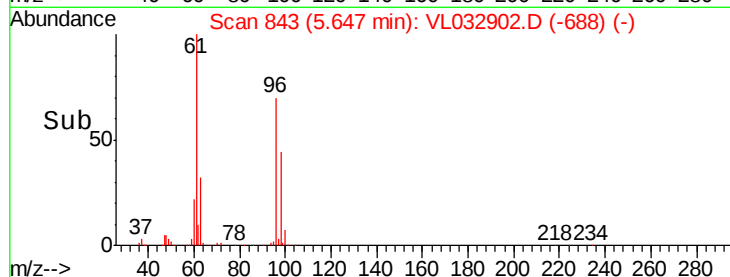
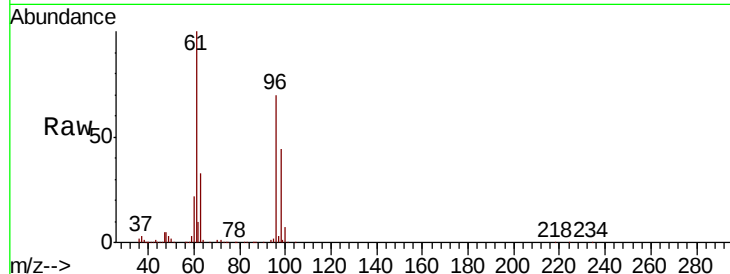
cis-1,2-Dichloroethene
Concen: 9.890 ppbv
RT: 5.65 min Scan# 843
Delta R.T. -0.00 min
Lab File: VL032902.D
Acq: 5 Dec 2018 7:51

Instrument :
MSVOA_L
ClientSampleId :
VL1204ABS01

Tot Ion	Ratio	Lower	Upper
61	100		
96	69.5	53.2	79.8
98	44.3	34.4	51.6

Manual Integrations
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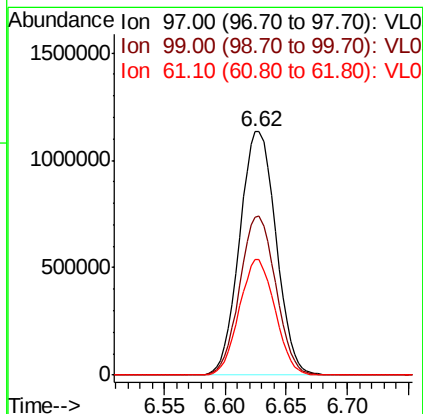
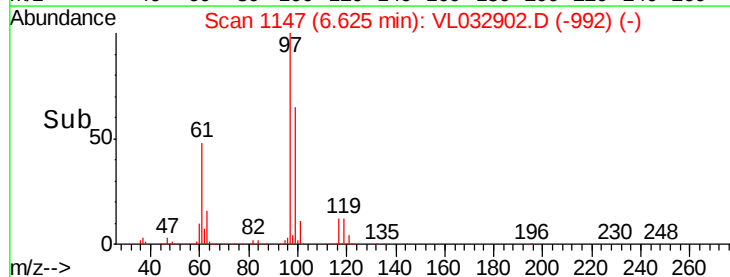
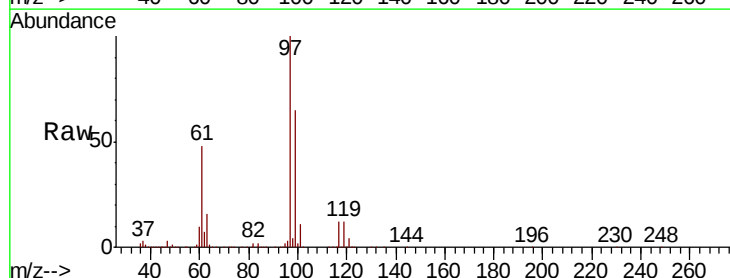
MMDadoda
12/10/2018 1:02:12 PM

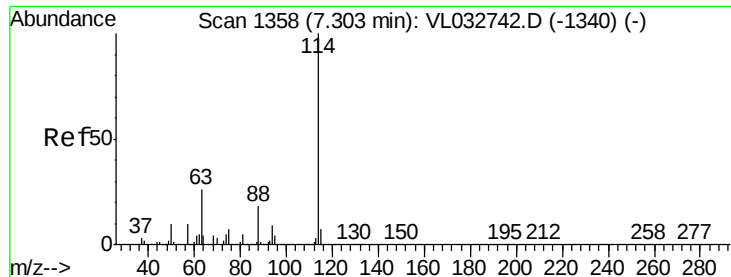


#32

1,1,1-Trichloroethane
Concen: 9.059 ppbv
RT: 6.62 min Scan# 1147
Delta R.T. -0.00 min
Lab File: VL032902.D
Acq: 5 Dec 2018 7:51

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.8	51.8	77.6
61	46.7	39.7	59.5





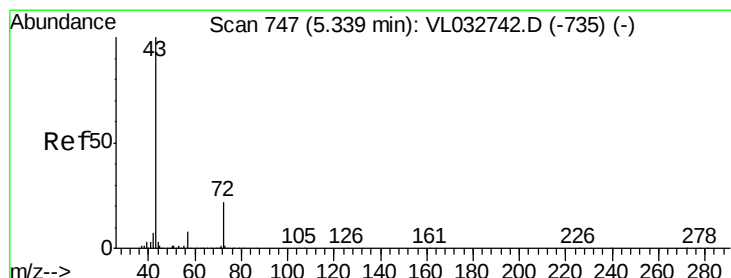
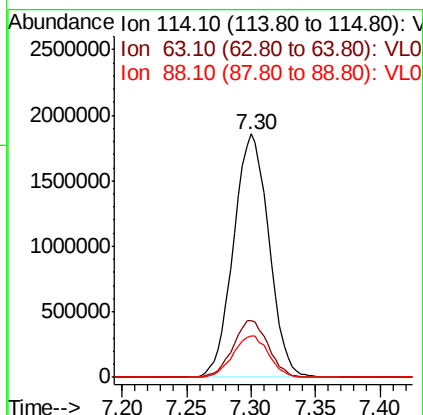
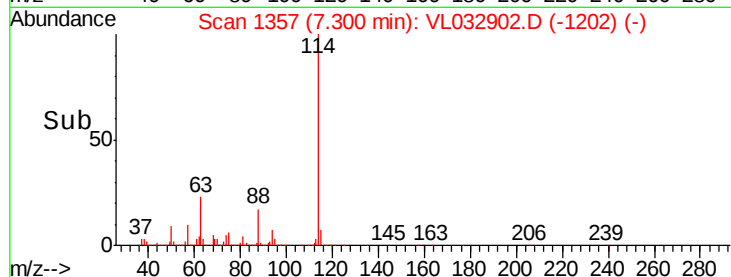
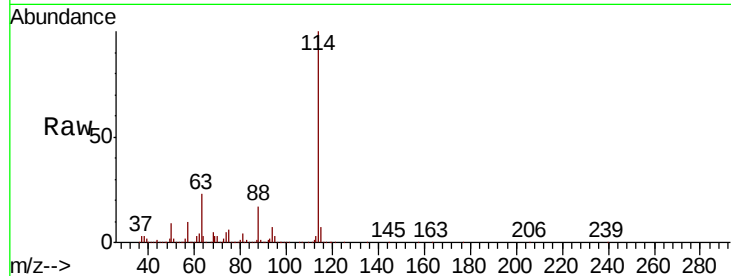
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1357
 Delta R.T. -0.00 min
 Lab File: VL032902.D
 Acq: 5 Dec 2018 7:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1204ABS01

Tot Ion	Ratio	Lower	Upper
114	100		
63	23.6	20.9	31.3
88	17.2	14.4	21.6

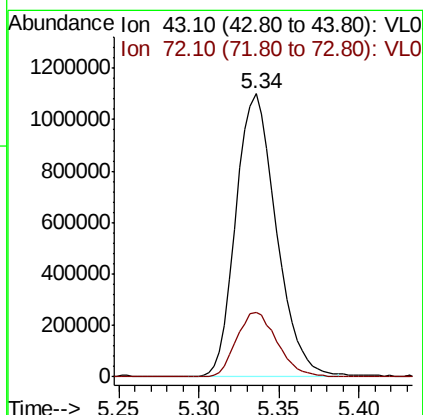
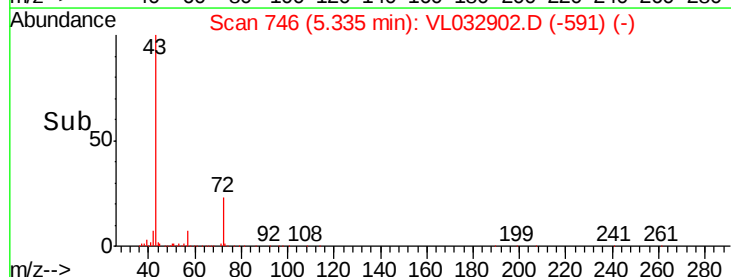
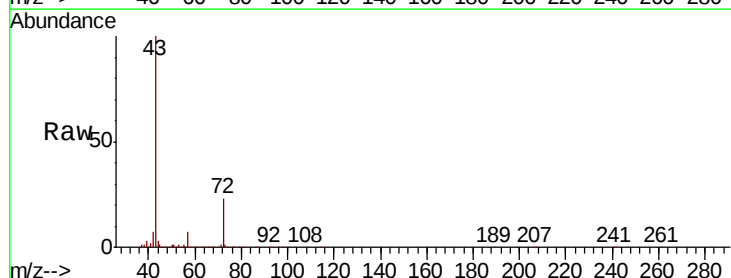
Manual Integrations
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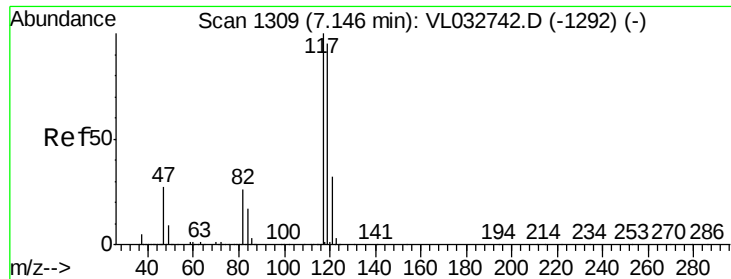
MMDadoda
 12/10/2018 1:02:12 PM



#34
 2-Butanone
 Concen: 10.253 ppbv
 RT: 5.34 min Scan# 746
 Delta R.T. -0.00 min
 Lab File: VL032902.D
 Acq: 5 Dec 2018 7:51

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.3	18.4	27.6





#35

Carbon Tetrachloride

Concen: 8.688 ppbv

RT: 7.14 min Scan# 1307

Delta R.T. -0.01 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

Instrument :

MSVOA_L

ClientSampleId :

VL1204ABS01

Tot Ion:117 Resp: 2477295

Ion Ratio Lower Upper

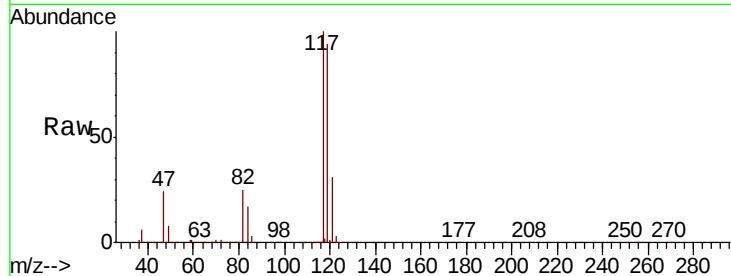
117 100

119 94.2 76.1 114.1

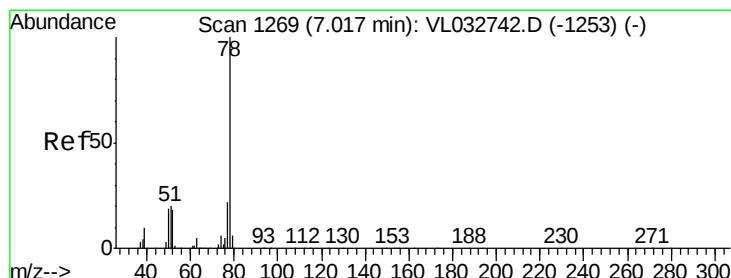
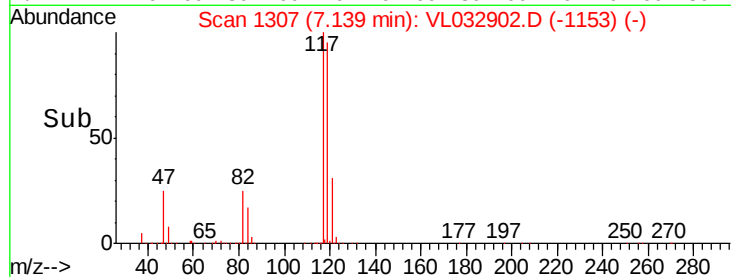
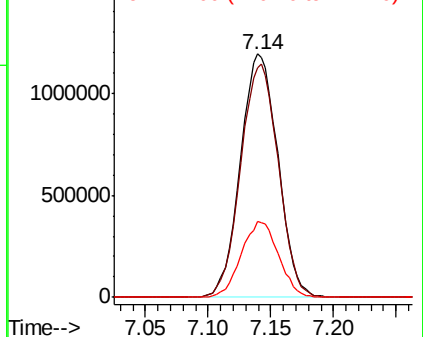
121 31.3 25.4 38.0

Manual Integrations
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MMDadoda
12/10/2018 1:02:12 PM



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 10.923 ppbv

RT: 7.01 min Scan# 1268

Delta R.T. -0.00 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

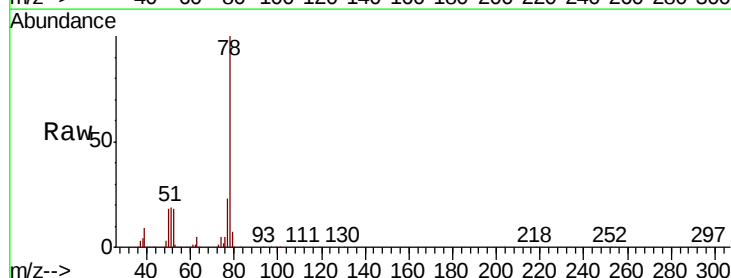
Tgt Ion: 78 Resp: 3085330

Ion Ratio Lower Upper

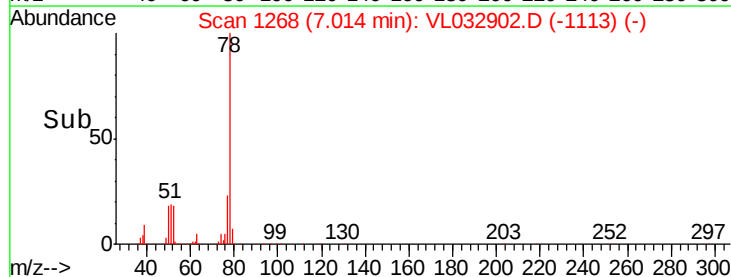
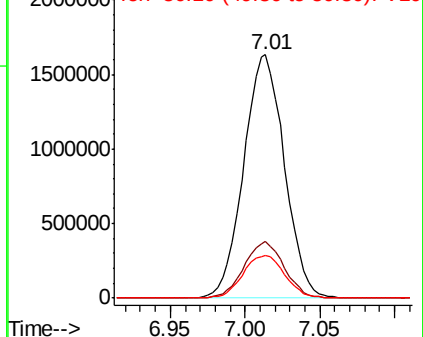
78 100

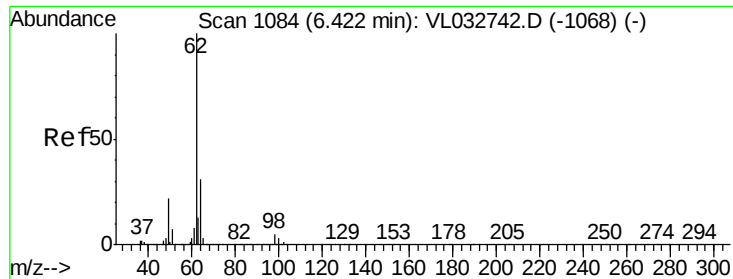
77 23.1 17.8 26.8

50 17.6 15.4 23.0



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0





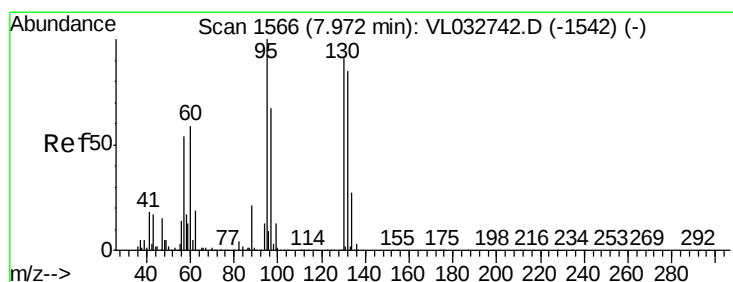
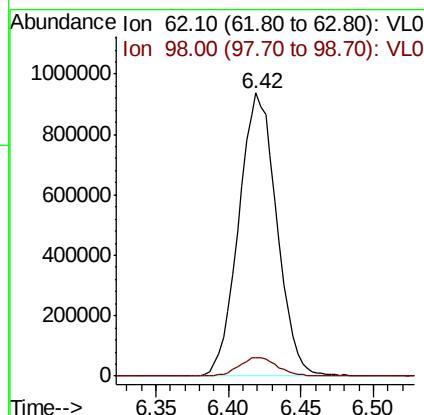
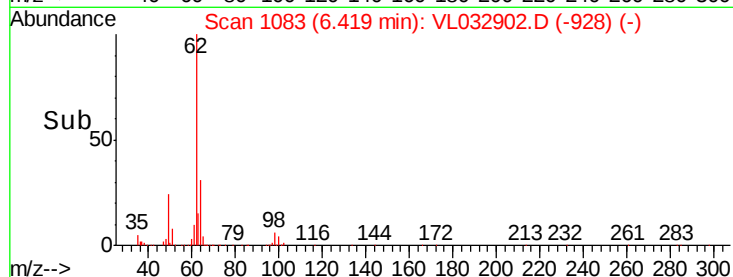
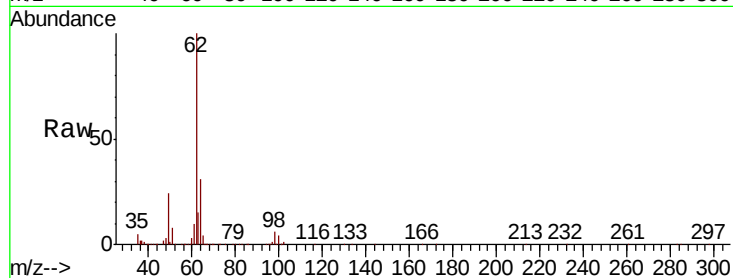
#37
 1,2-Dichloroethane
 Concen: 8.988 ppbv
 RT: 6.42 min Scan# 1083
 Delta R.T. -0.00 min
 Lab File: VL032902.D
 Acq: 5 Dec 2018 7:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1204ABS01

Tot Ion: 62 Resp: 1708866
 Ion Ratio Lower Upper
 62 100
 98 6.7 4.5 6.7

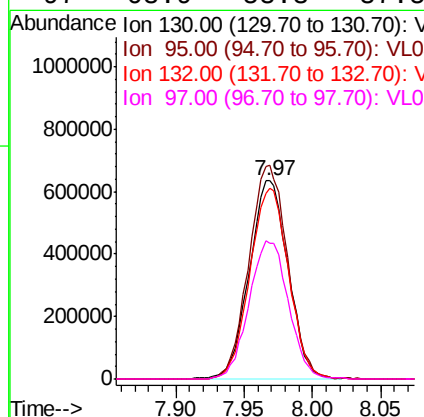
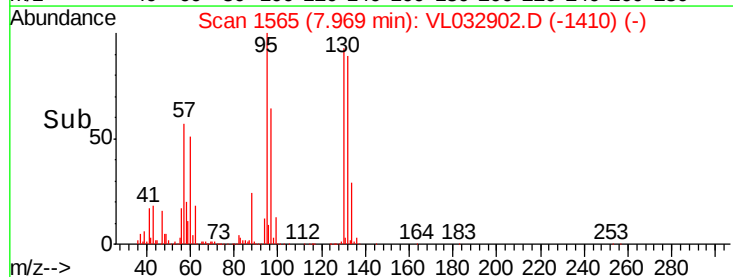
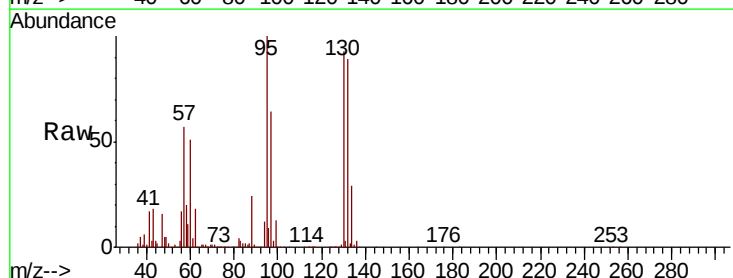
Manual Integrations
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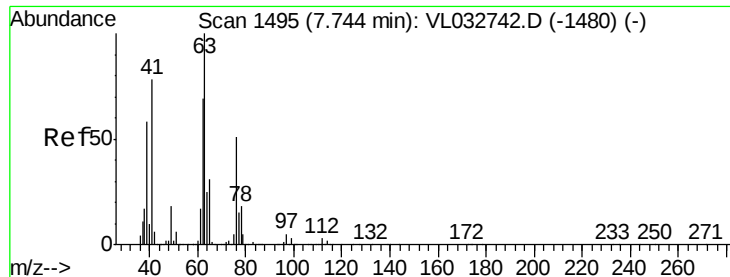
MMDadoda
 12/10/2018 1:02:12 PM



#38
 Trichloroethene
 Concen: 10.888 ppbv
 RT: 7.97 min Scan# 1565
 Delta R.T. -0.00 min
 Lab File: VL032902.D
 Acq: 5 Dec 2018 7:51

Tgt Ion: 130 Resp: 1244542
 Ion Ratio Lower Upper
 130 100
 95 107.9 87.7 131.5
 132 96.3 74.6 111.8
 97 68.9 58.3 87.5





#39

1,2-Dichloropropane

Concen: 10.925 ppbv

RT: 7.75 min Scan# 1496

Delta R.T. 0.00 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

Instrument :

MSVOA_L

ClientSampleId :

VL1204ABS01

Tot Ion: 63 Resp: 1175710

Ion Ratio Lower Upper

63 100

41 68.4 62.0 93.0

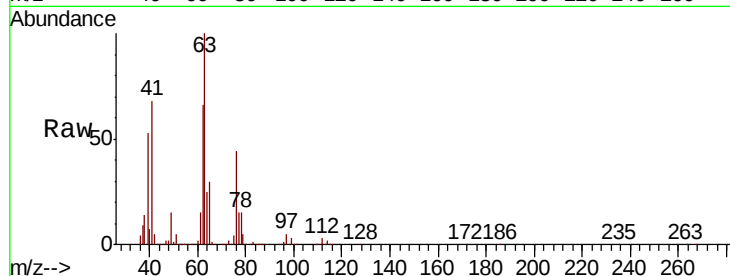
62 65.7 55.4 83.2

Manual Integrations

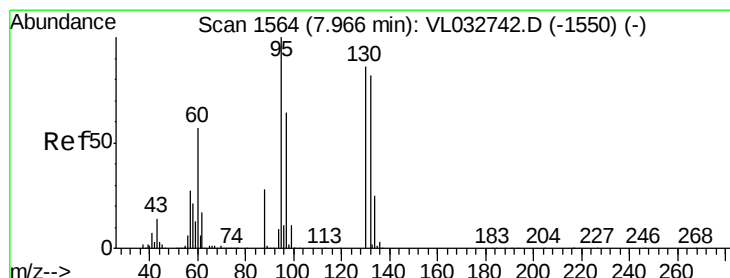
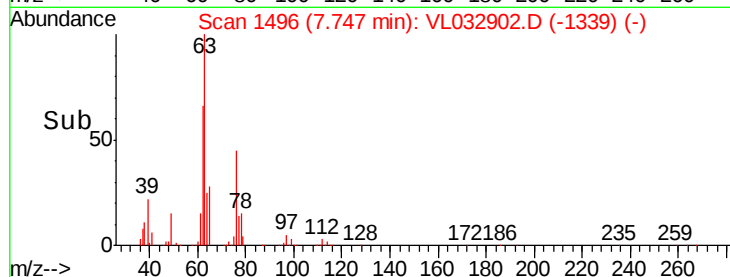
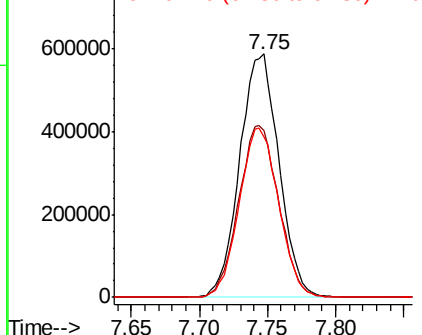
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Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 11.686 ppbv

RT: 7.96 min Scan# 1562

Delta R.T. -0.01 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

Tgt Ion: 88 Resp: 449184

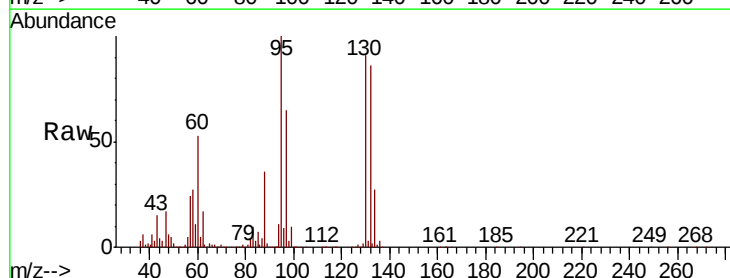
Ion Ratio Lower Upper

88 100

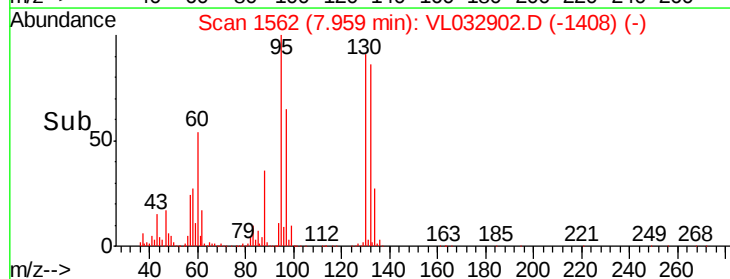
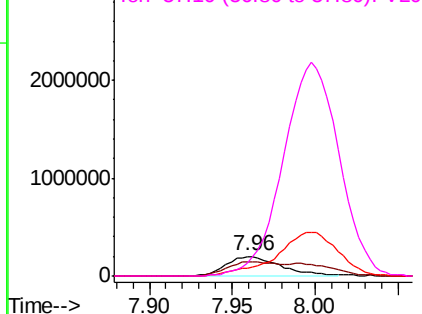
58 124.9 105.3 157.9

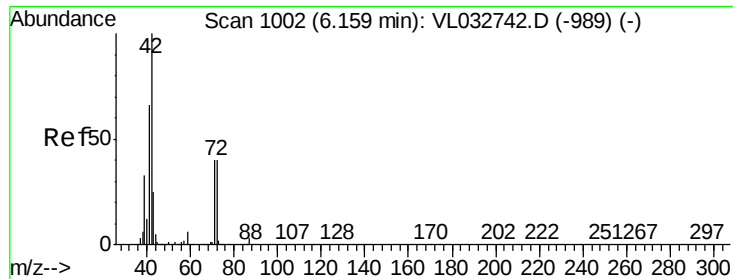
43 257.6 226.1 339.1

57 1147.7 1015.2 1522.8



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





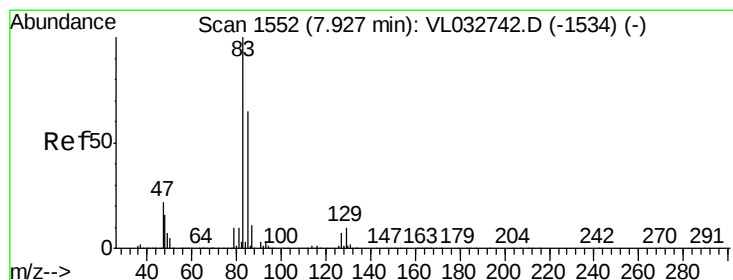
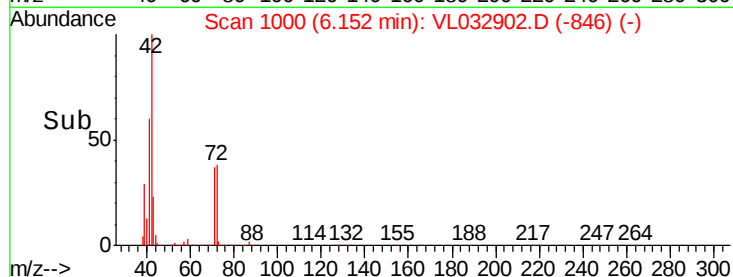
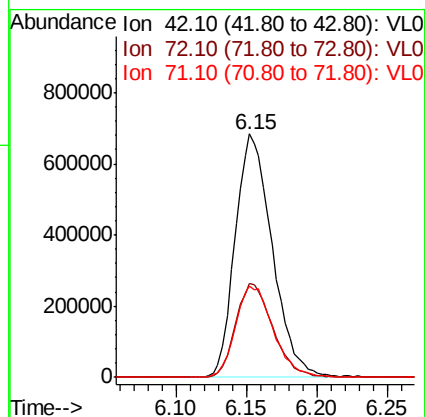
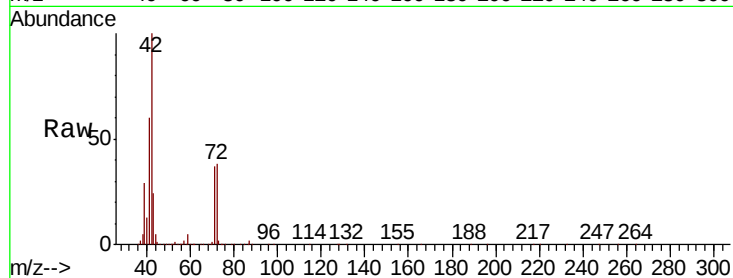
#41
Tetrahydrofuran
Concen: 11.906 ppbv
RT: 6.15 min Scan# 1000
Delta R.T. -0.01 min
Lab File: VL032902.D
Acq: 5 Dec 2018 7:51

Instrument :
MSVOA_L
ClientSampleId :
VL1204ABS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	39.0	32.4	48.6
71	38.2	31.6	47.4

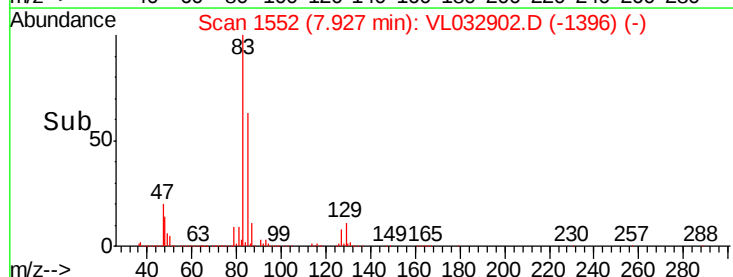
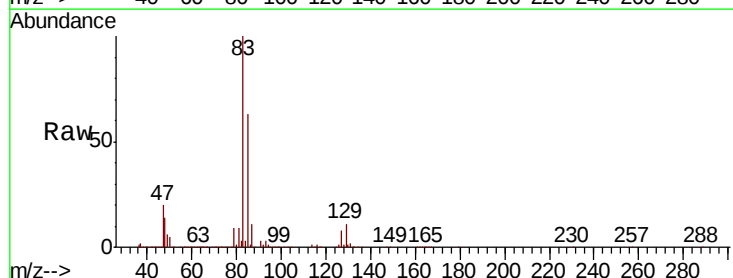
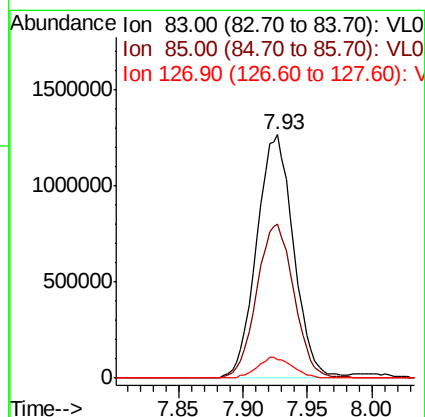
Manual Integrations
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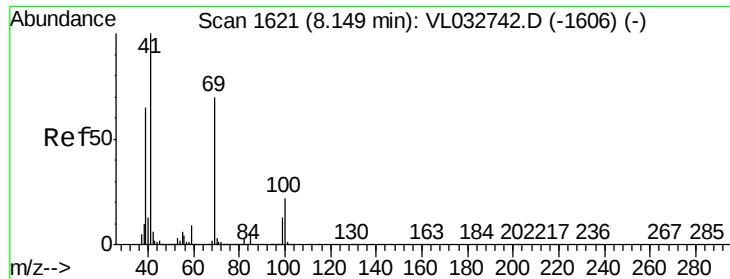
MMDadoda
12/10/2018 1:02:12 PM



#42
Bromodichloromethane
Concen: 9.794 ppbv
RT: 7.93 min Scan# 1552
Delta R.T. 0.00 min
Lab File: VL032902.D
Acq: 5 Dec 2018 7:51

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.3	51.8	77.8
127	7.8	5.9	8.9





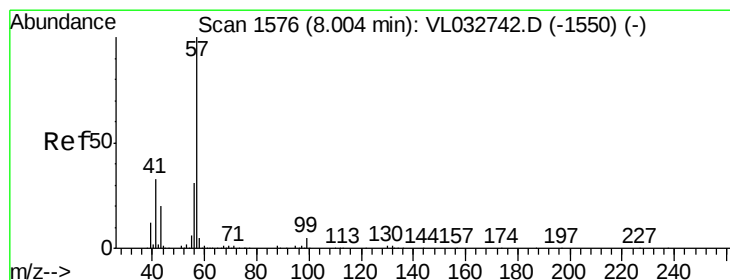
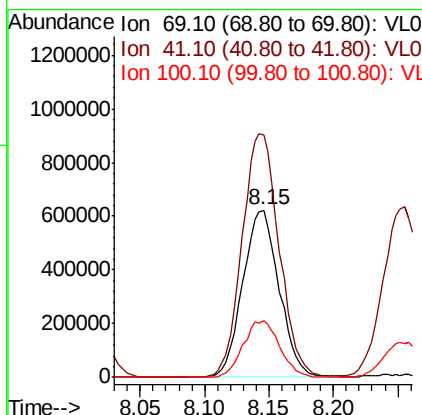
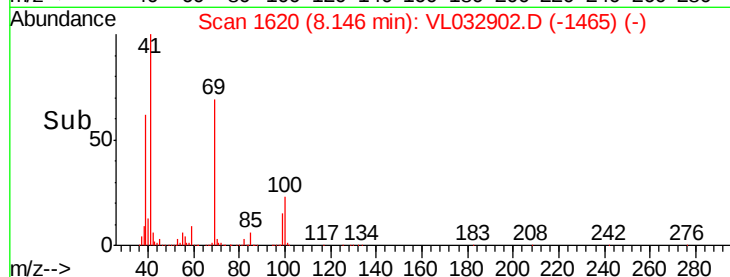
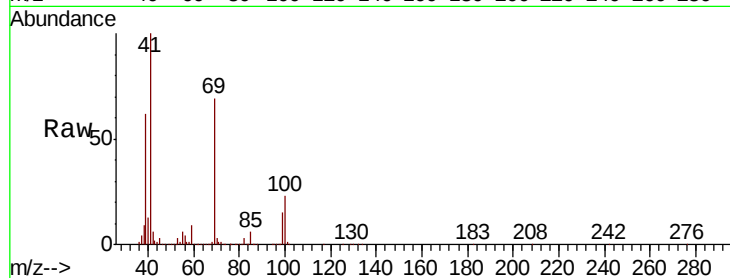
#43
Methyl Methacrylate
Concen: 11.583 ppbv
RT: 8.15 min Scan# 1620
Delta R.T. -0.00 min
Lab File: VL032902.D
Acq: 5 Dec 2018 7:51

Instrument :
MSVOA_L
ClientSampleId :
VL1204ABS01

Tot Ion: 69 Resp: 1221406
Ion Ratio Lower Upper
69 100
41 148.1 115.0 172.4
100 34.1 25.4 38.0

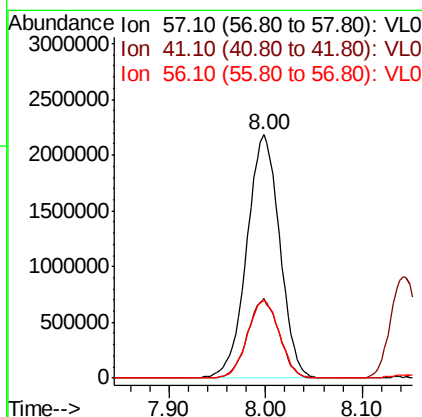
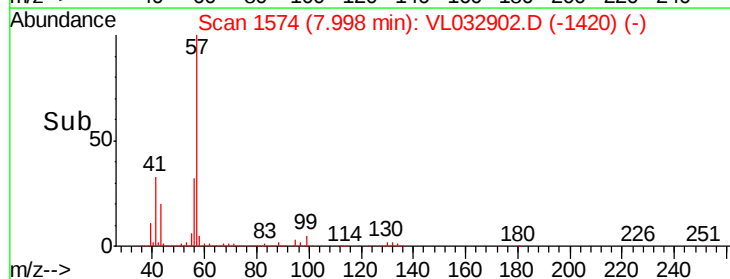
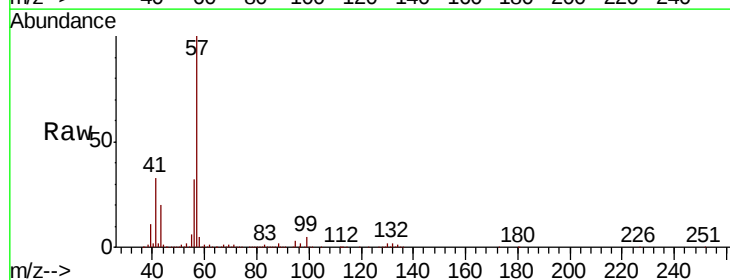
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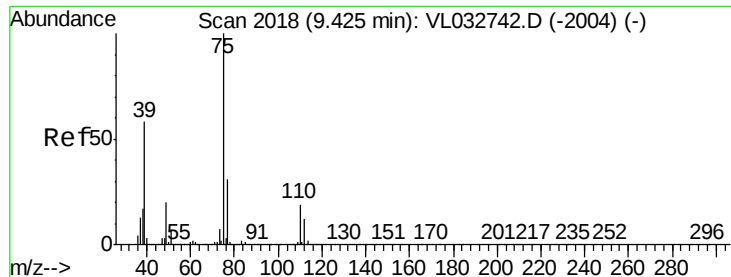
MMDadoda
12/10/2018 1:02:12 PM



#44
2,2,4-Trimethylpentane
Concen: 10.912 ppbv
RT: 8.00 min Scan# 1574
Delta R.T. -0.01 min
Lab File: VL032902.D
Acq: 5 Dec 2018 7:51

Tgt Ion: 57 Resp: 5150492
Ion Ratio Lower Upper
57 100
41 31.1 26.6 39.8
56 31.2 24.8 37.2





#45

t-1,3-Dichloropropene

Concen: 11.967 ppbv

RT: 9.42 min Scan# 2016

Delta R.T. -0.01 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

Instrument :

MSVOA_L

ClientSampleId :

VL1204ABS01

Tot Ion: 75 Resp: 1693279

Ion Ratio Lower Upper

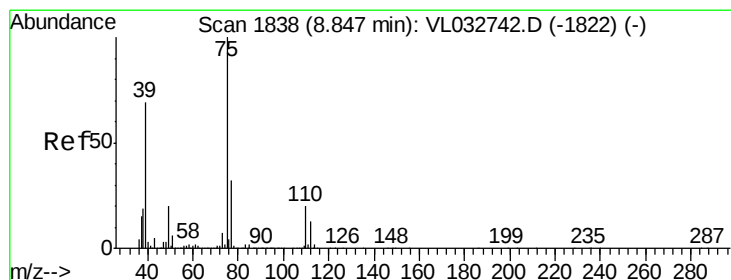
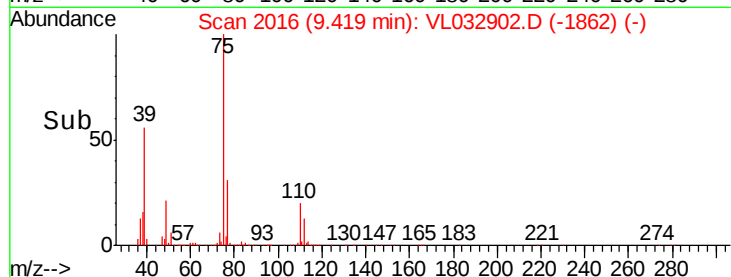
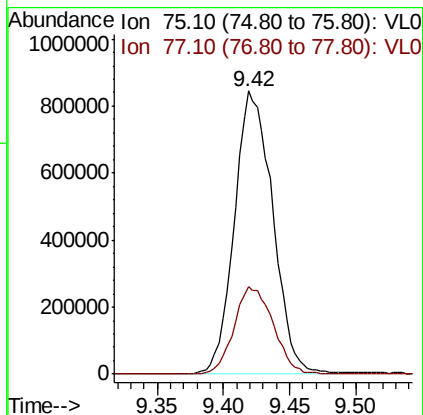
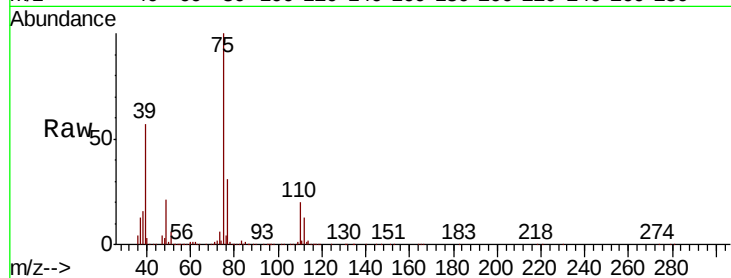
75 100

77 30.7 24.6 36.8

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12/10/2018 1:02:12 PM



#46

cis-1,3-Dichloropropene

Concen: 11.062 ppbv

RT: 8.84 min Scan# 1837

Delta R.T. -0.00 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

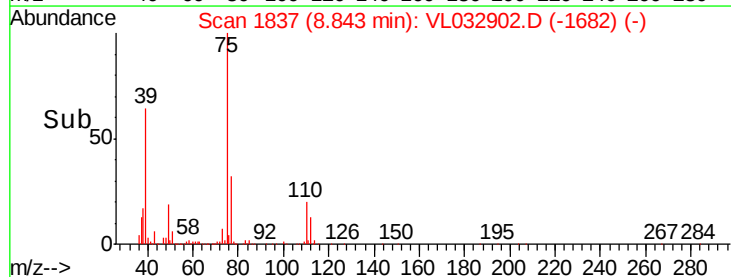
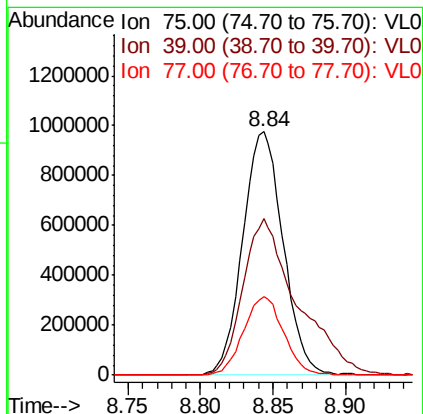
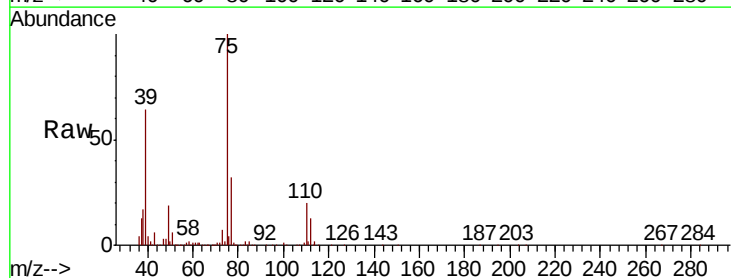
Tgt Ion: 75 Resp: 1891024

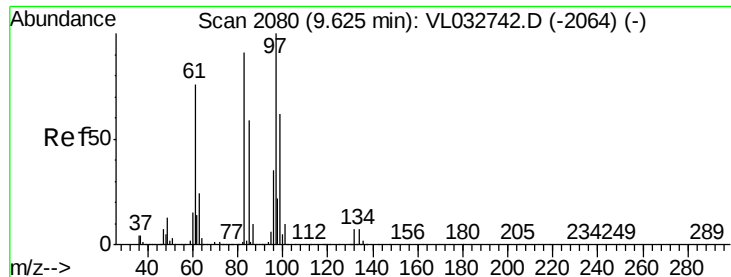
Ion Ratio Lower Upper

75 100

39 64.3 55.2 82.8

77 32.4 25.8 38.6





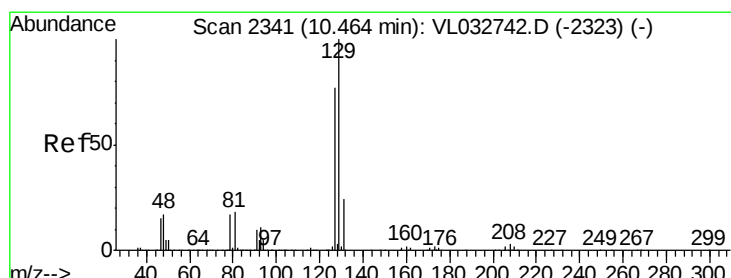
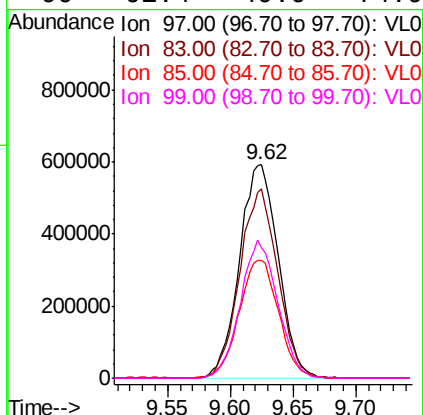
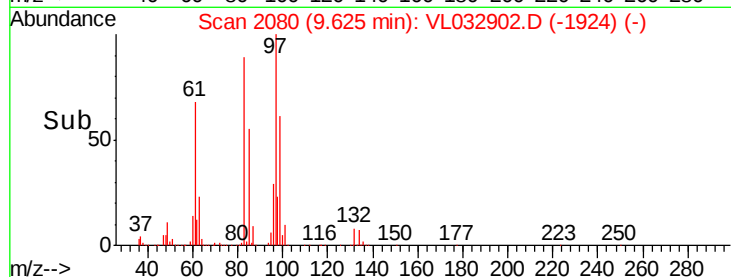
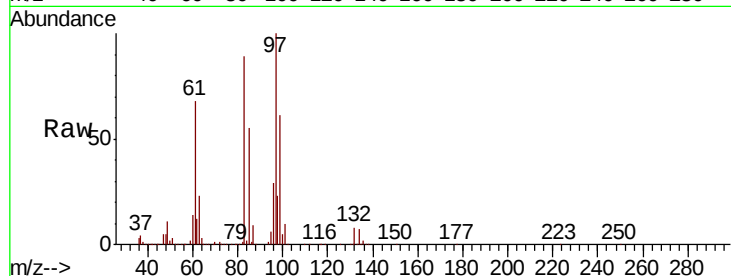
#47
 1,1,2-Trichloroethane
 Concen: 10.019 ppbv
 RT: 9.62 min Scan# 2080
 Delta R.T. 0.00 min
 Lab File: VL032902.D
 Acq: 5 Dec 2018 7:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1204ABS01

Tot Ion	Ratio	Lower	Upper
97	100		
83	89.0	73.0	109.4
85	55.2	47.0	70.4
99	61.4	49.9	74.9

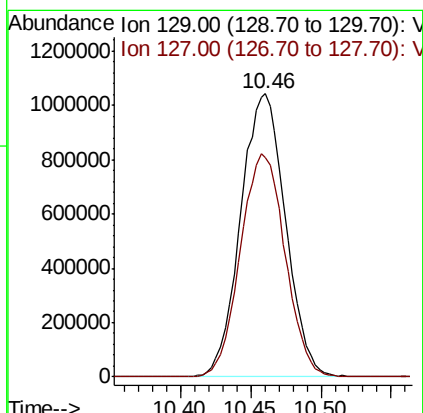
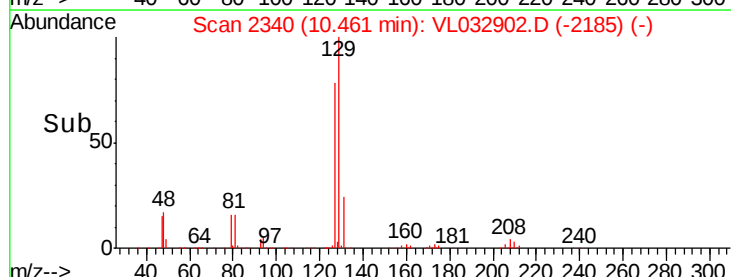
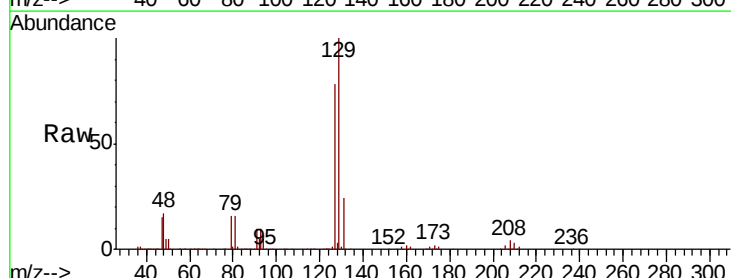
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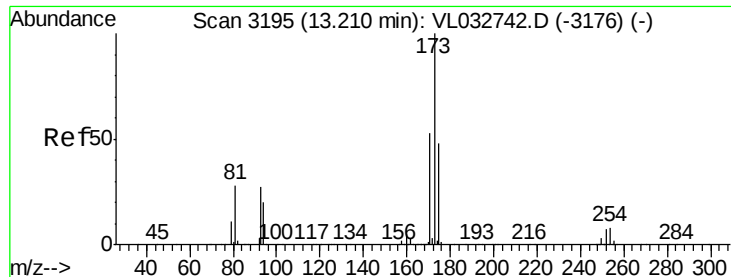
MMDadoda
 12/10/2018 1:02:12 PM



#48
 Dibromochloromethane
 Concen: 10.726 ppbv
 RT: 10.46 min Scan# 2340
 Delta R.T. -0.00 min
 Lab File: VL032902.D
 Acq: 5 Dec 2018 7:51

Tgt Ion	Ratio	Lower	Upper
129	100		
127	79.0	39.0	117.0





#49

Bromoform

Concen: 11.648 ppbv

RT: 13.21 min Scan# 3195

Delta R.T. 0.00 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

Instrument :

MSVOA_L

ClientSampleId :

VL1204ABS01

Tot Ion:173 Resp: 2080586

Ion Ratio Lower Upper

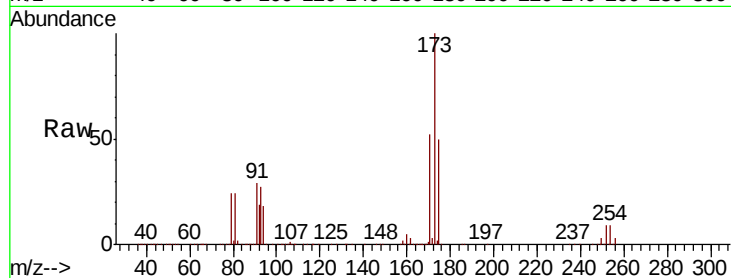
173 100

175 48.6 39.4 59.0

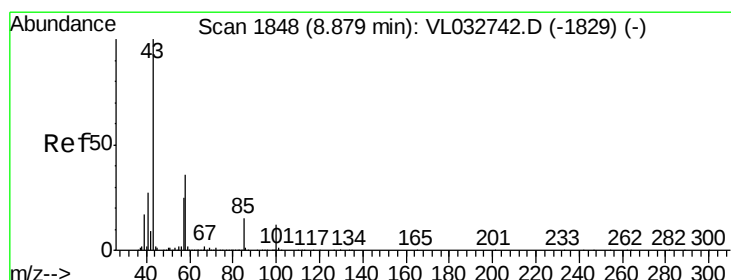
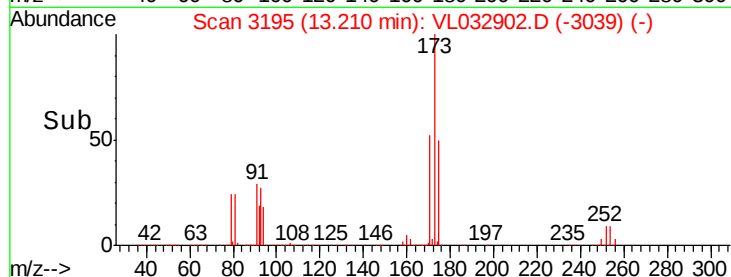
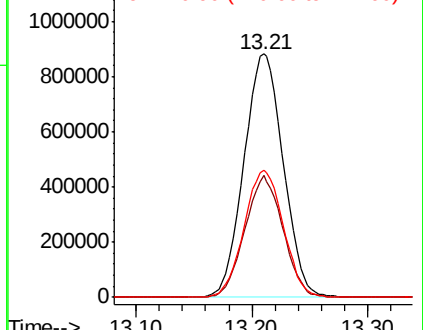
171 52.2 42.0 63.0

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Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 10.291 ppbv

RT: 8.88 min Scan# 1847

Delta R.T. -0.00 min

Lab File: VL032902.D

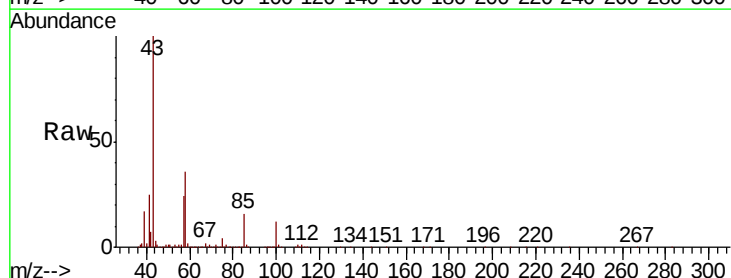
Acq: 5 Dec 2018 7:51

Tgt Ion: 43 Resp: 2956930

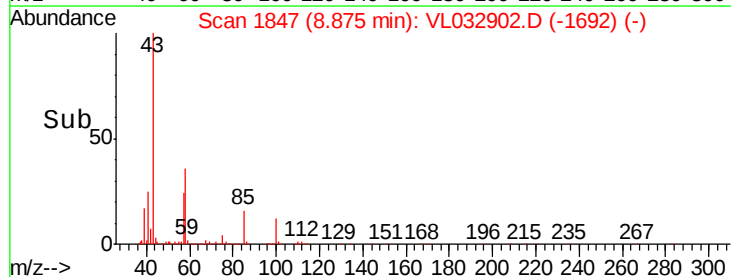
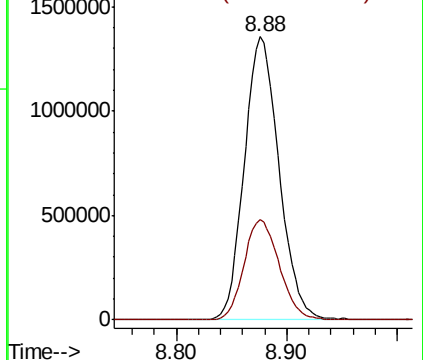
Ion Ratio Lower Upper

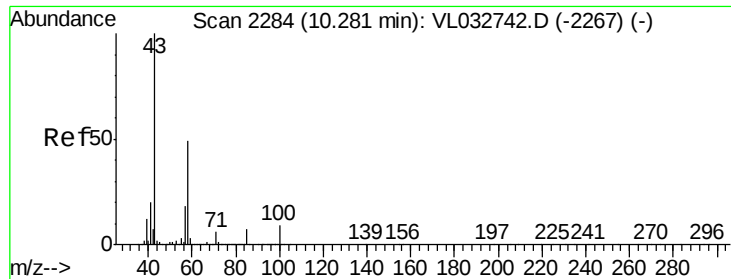
43 100

58 36.2 28.8 43.2



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





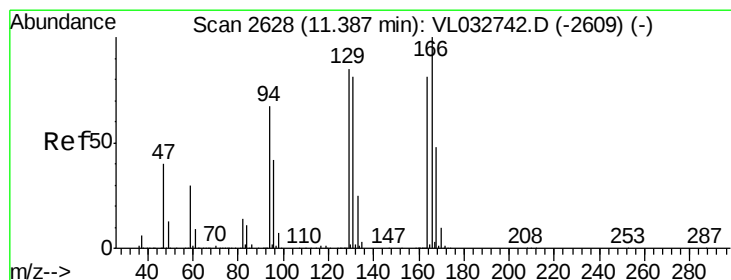
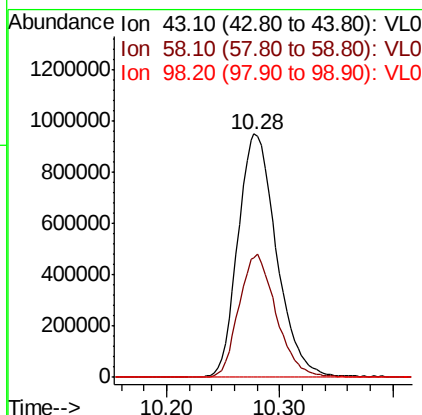
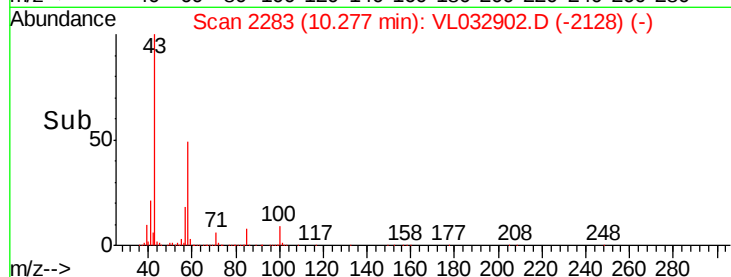
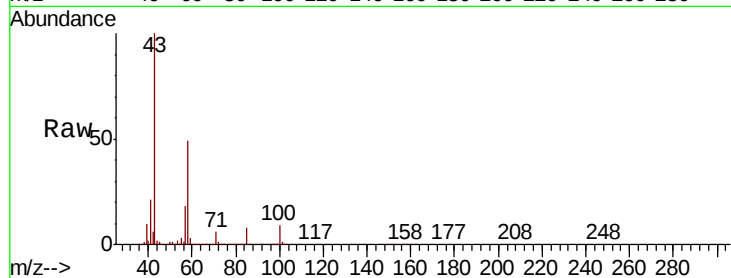
#51
2-Hexanone
Concen: 12.123 ppbv
RT: 10.28 min Scan# 2283
Delta R.T. -0.00 min
Lab File: VL032902.D
Acq: 5 Dec 2018 7:51

Instrument :
MSVOA_L
ClientSampleId :
VL1204ABS01

Tot Ion: 43 Resp: 2244267
Ion Ratio Lower Upper
43 100
58 49.0 38.9 58.3
98 0.3 0.2 0.4

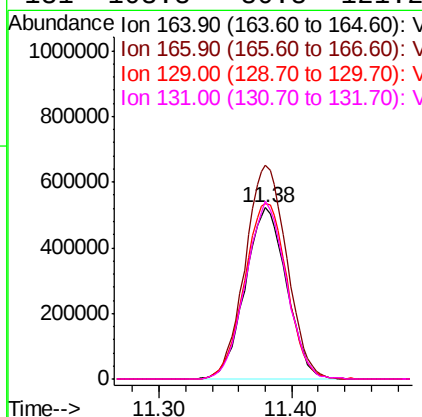
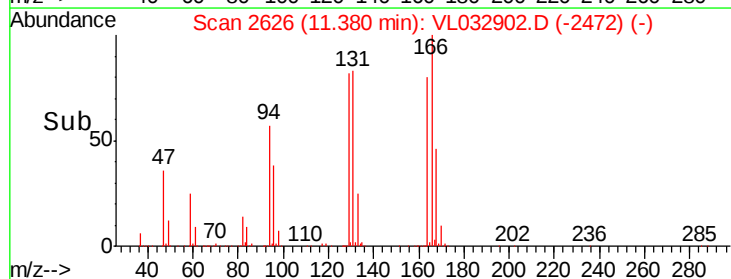
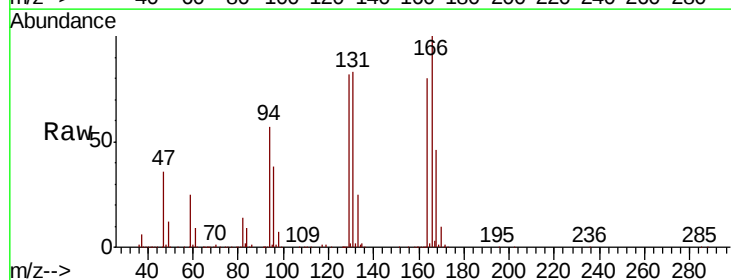
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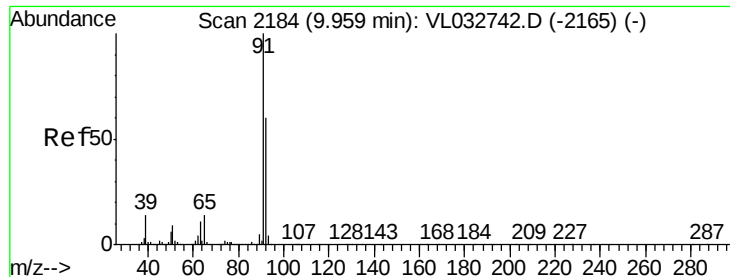
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#52
Tetrachloroethene
Concen: 11.475 ppbv
RT: 11.38 min Scan# 2626
Delta R.T. -0.01 min
Lab File: VL032902.D
Acq: 5 Dec 2018 7:51

Tgt Ion:164 Resp: 1127495
Ion Ratio Lower Upper
164 100
166 124.5 99.3 148.9
129 102.6 83.9 125.9
131 103.8 80.8 121.2





#53

Toluene

Concen: 12.289 ppbv

RT: 9.95 min Scan# 2182

Delta R.T. -0.01 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

Instrument :

MSVOA_L

ClientSampleId :

VL1204ABS01

Tot Ion: 91 Resp: 3621179

Ion Ratio Lower Upper

91 100

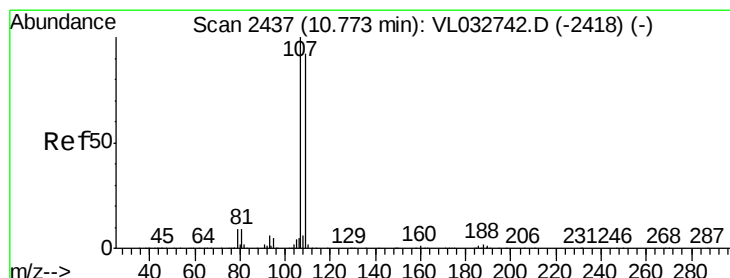
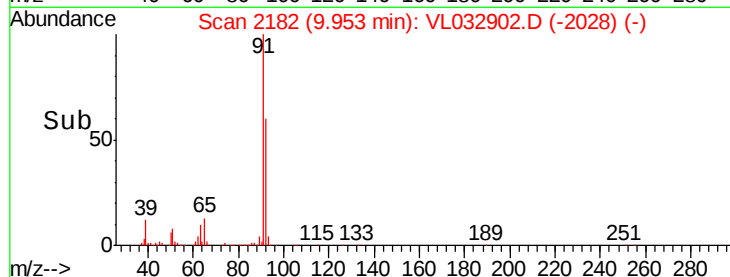
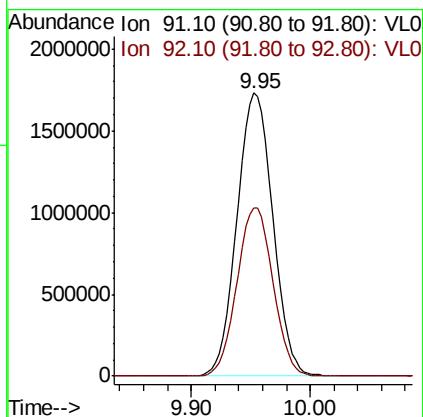
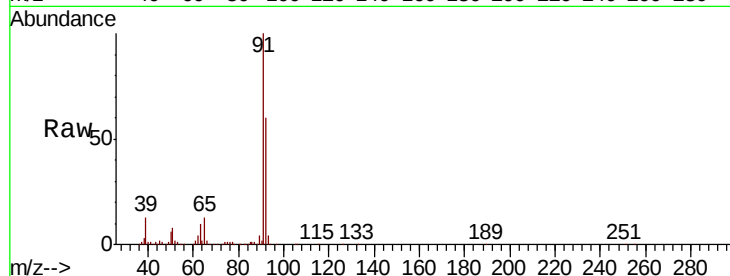
92 60.0 47.9 71.9

Manual Integrations

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#54

1,2-Dibromoethane

Concen: 10.943 ppbv

RT: 10.77 min Scan# 2435

Delta R.T. -0.01 min

Lab File: VL032902.D

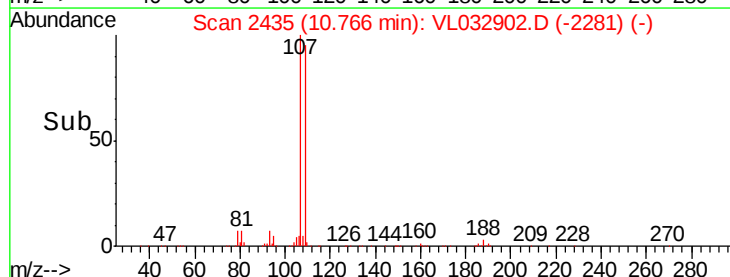
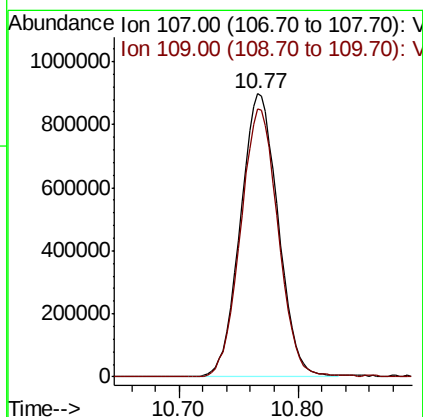
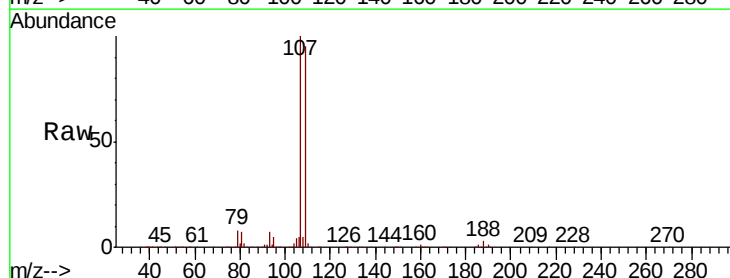
Acq: 5 Dec 2018 7:51

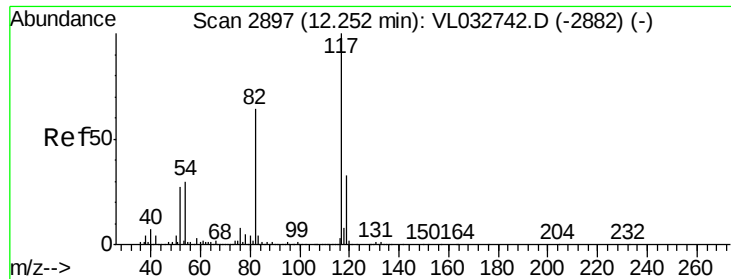
Tgt Ion: 107 Resp: 1968425

Ion Ratio Lower Upper

107 100

109 94.7 73.8 110.8





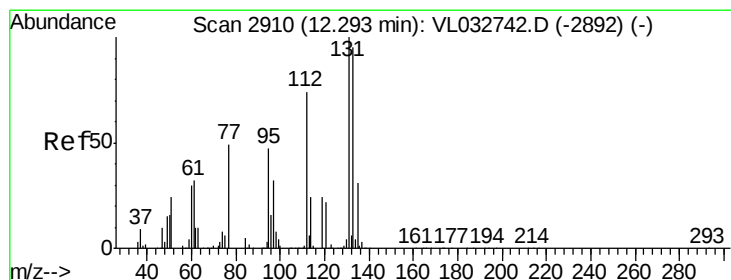
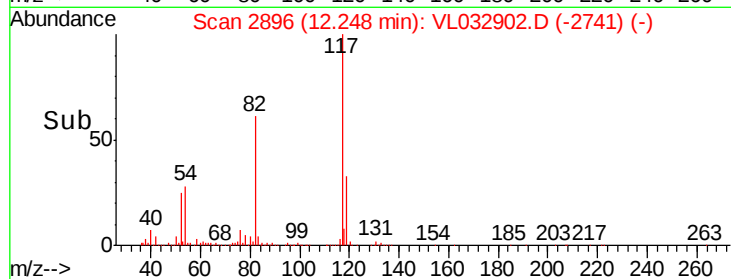
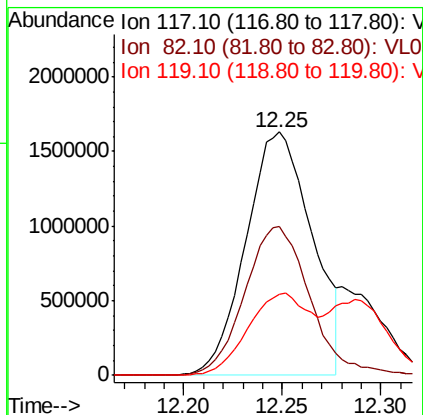
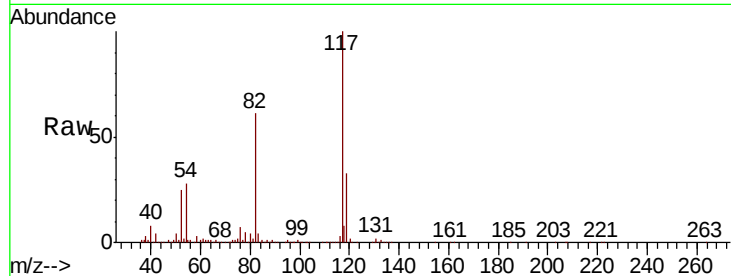
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.25 min Scan# 2896
Delta R.T. -0.00 min
Lab File: VL032902.D
Acq: 5 Dec 2018 7:51

Instrument :
MSVOA_L
ClientSampleId :
VL1204ABS01

Tot Ion:117 Resp: 3799595
Ion Ratio Lower Upper
117 100
82 60.4 51.0 76.6
119 31.5 28.0 42.0

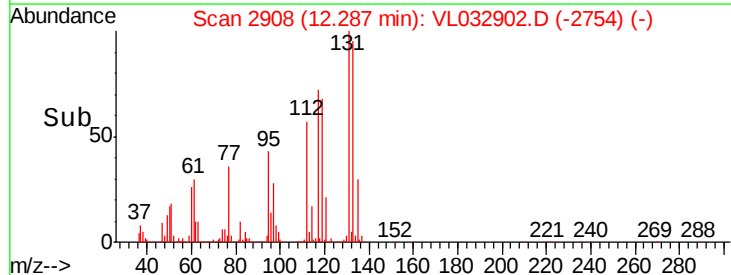
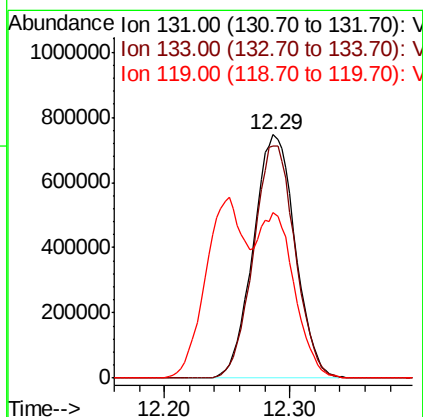
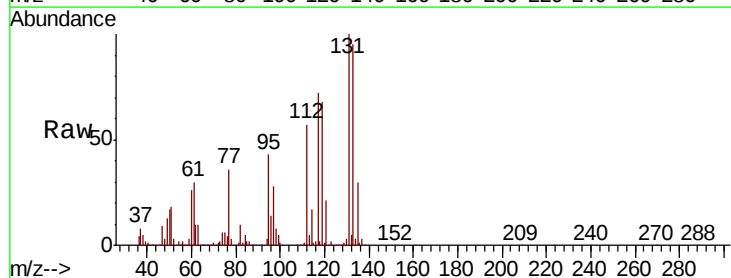
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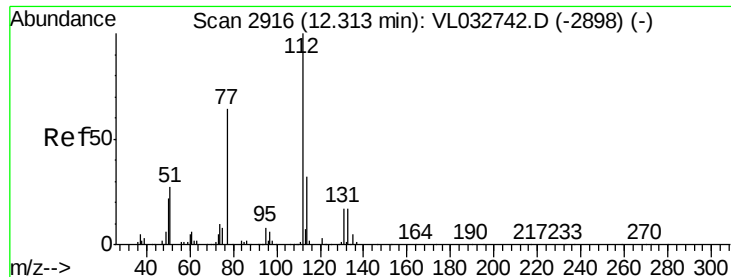
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.795 ppbv
RT: 12.29 min Scan# 2908
Delta R.T. -0.01 min
Lab File: VL032902.D
Acq: 5 Dec 2018 7:51

Tgt Ion:131 Resp: 1735836
Ion Ratio Lower Upper
131 100
133 95.3 75.8 113.6
119 53.3 45.2 67.8





#57

Chlorobenzene

Concen: 10.153 ppbv

RT: 12.31 min Scan# 2915

Delta R.T. -0.00 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

Instrument :

MSVOA_L

ClientSampleId :

VL1204ABS01

Tot Ion:112 Resp: 2952935

Ion Ratio Lower Upper

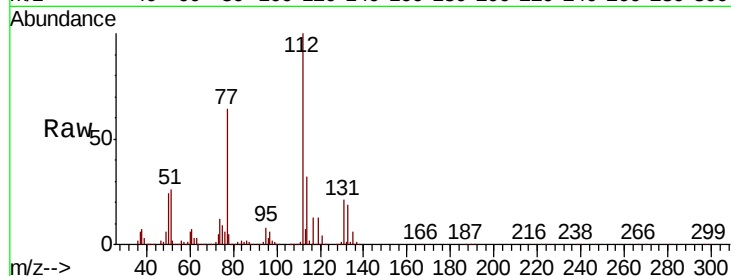
112 100

77 63.3 52.3 78.5

114 32.0 28.4 34.8

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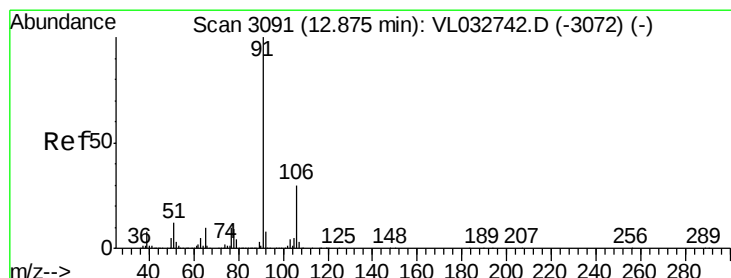
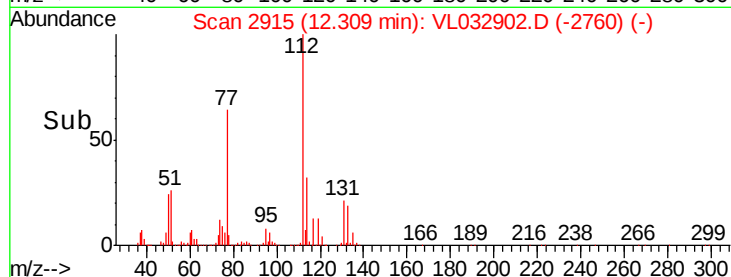
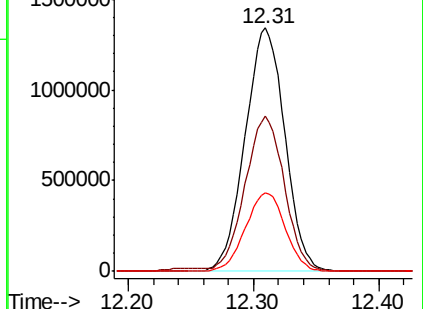
MMDadoda
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 11.369 ppbv

RT: 12.87 min Scan# 3089

Delta R.T. -0.01 min

Lab File: VL032902.D

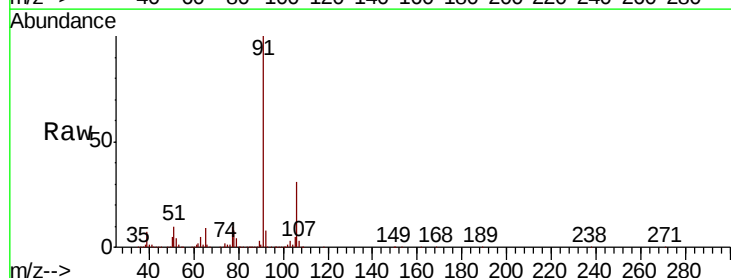
Acq: 5 Dec 2018 7:51

Tgt Ion: 91 Resp: 5198749

Ion Ratio Lower Upper

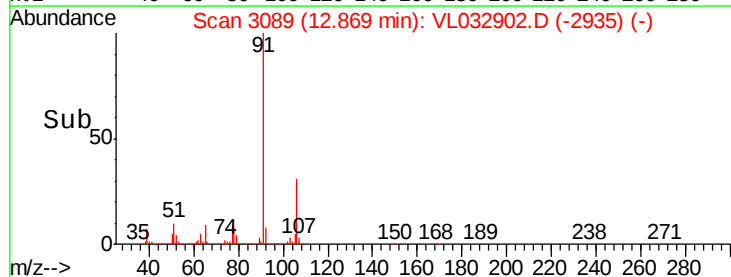
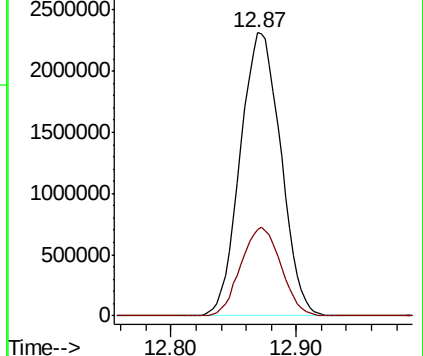
91 100

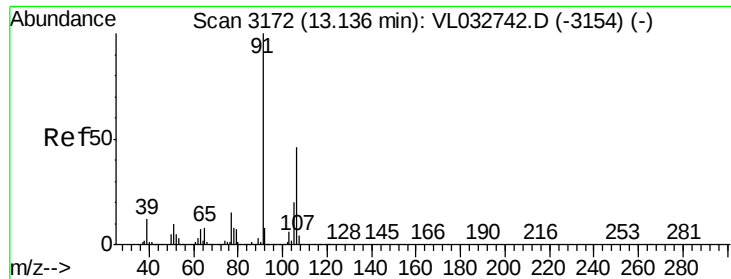
106 30.7 23.6 35.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





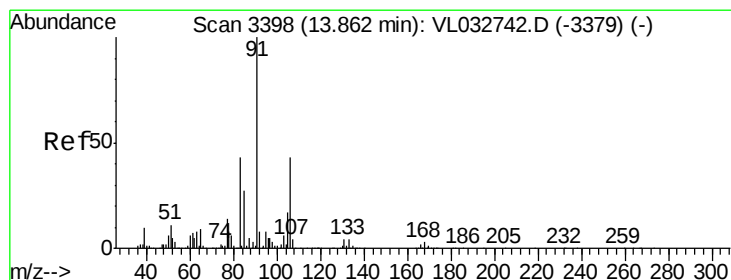
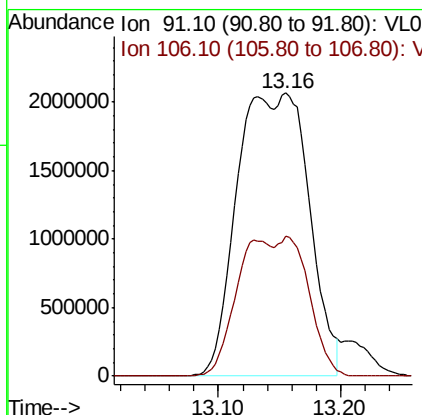
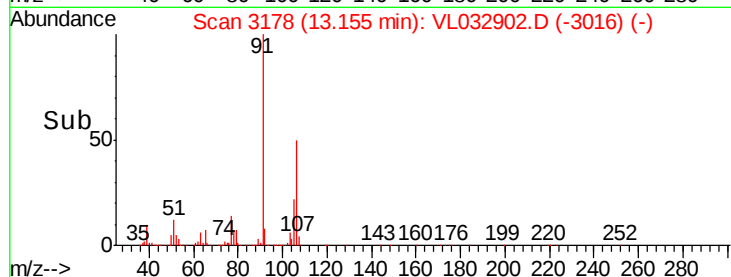
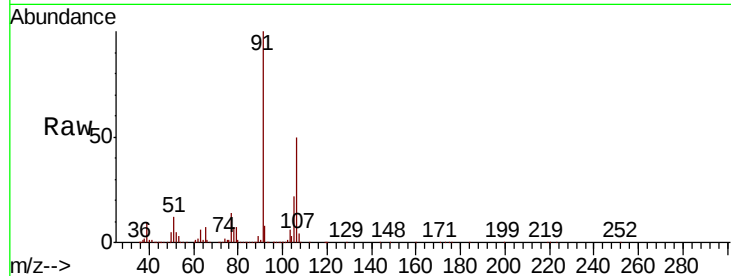
#59
m/p-Xylene
Concen: 20.770 ppbv m
RT: 13.16 min Scan# 3178
Delta R.T. 0.02 min
Lab File: VL032902.D
Acq: 5 Dec 2018 7:51

Instrument :
MSVOA_L
ClientSampleId :
VL1204ABS01

Tot Ion: 91 Resp: 8454786
Ion Ratio Lower Upper
91 100
106 0.0 36.1 54.1#

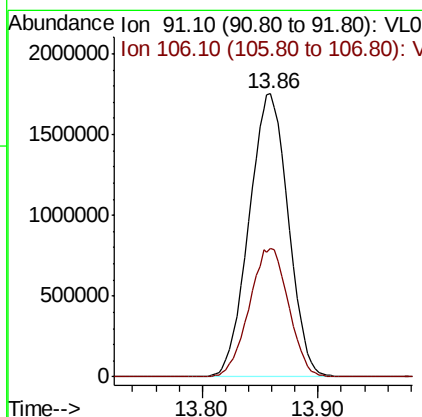
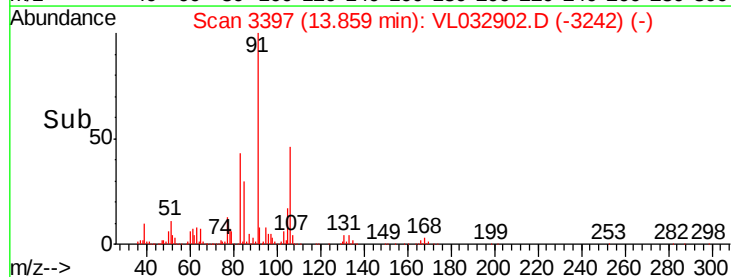
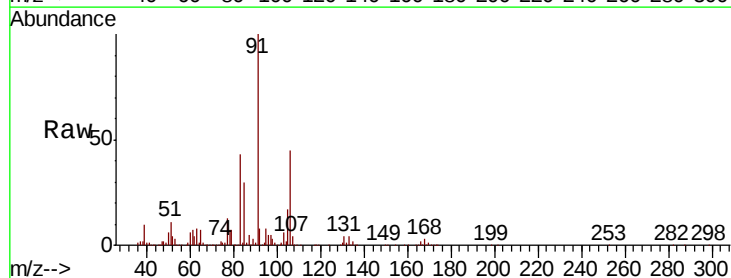
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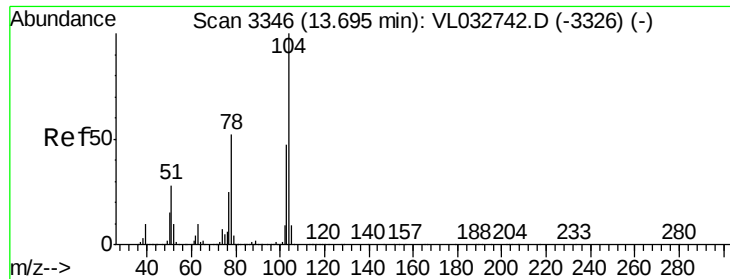
MMDadoda
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#60
o-Xylene
Concen: 10.036 ppbv
RT: 13.86 min Scan# 3397
Delta R.T. -0.00 min
Lab File: VL032902.D
Acq: 5 Dec 2018 7:51

Tgt Ion: 91 Resp: 4107831
Ion Ratio Lower Upper
91 100
106 45.7 21.9 65.7





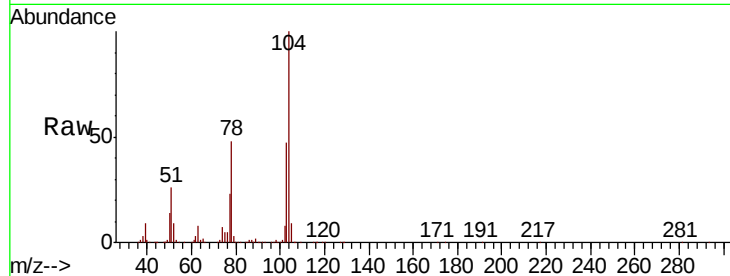
#61
Stvrene
Concen: 12.258 ppbv
RT: 13.70 min Scan# 3346
Delta R.T. 0.00 min
Lab File: VL032902.D
Acq: 5 Dec 2018 7:51

Instrument :
MSVOA_L
ClientSampleId :
VL1204ABS01

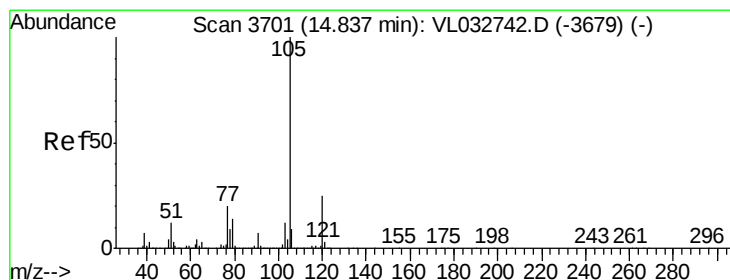
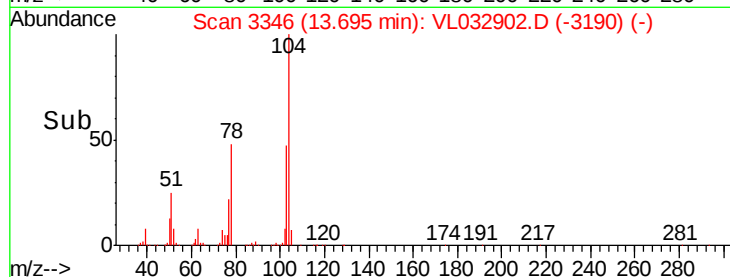
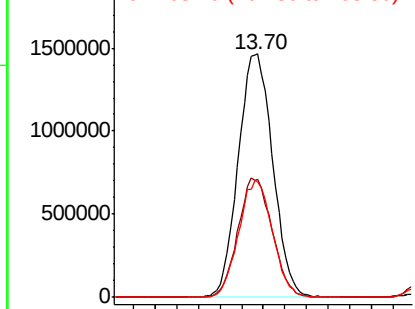
Tot Ion	Ratio	Lower	Upper
104	100		
78	48.6	42.2	63.4
103	47.1	38.2	57.2

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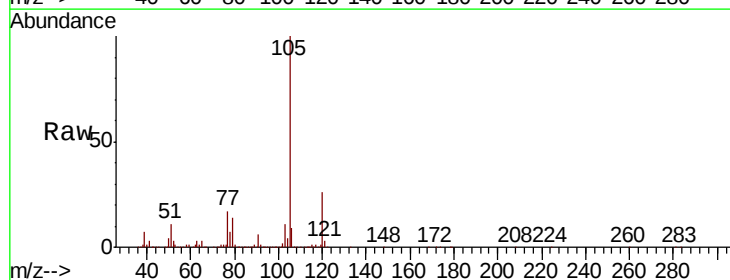


Abundance Ion 104.10 (103.80 to 104.80): V
2000000 Ion 78.10 (77.80 to 78.80): VL0
Ion 103.10 (102.80 to 103.80): V

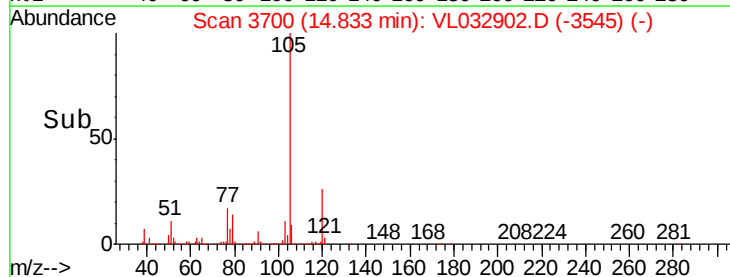
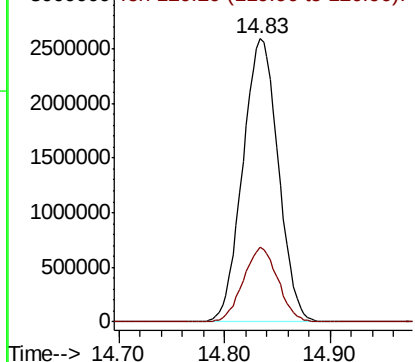


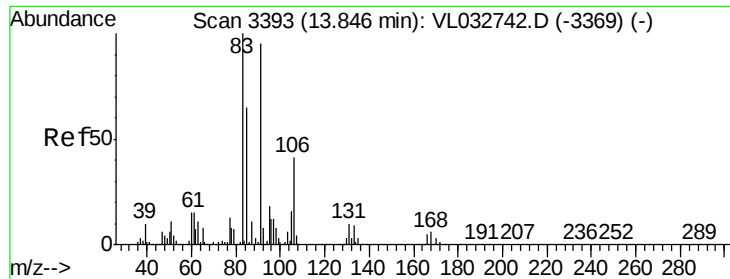
#62
Isopropylbenzene
Concen: 10.982 ppbv
RT: 14.83 min Scan# 3700
Delta R.T. -0.00 min
Lab File: VL032902.D
Acq: 5 Dec 2018 7:51

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.7	20.1	30.1



Abundance Ion 105.10 (104.80 to 105.80): V
3000000 Ion 120.20 (119.90 to 120.90): V





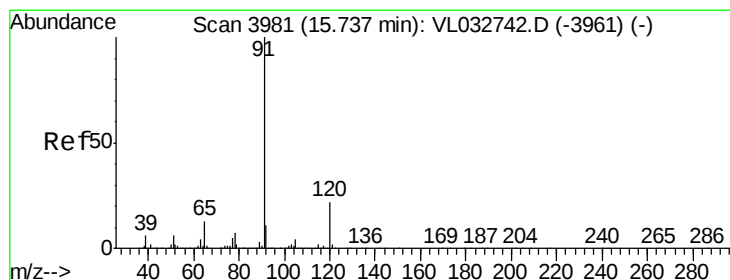
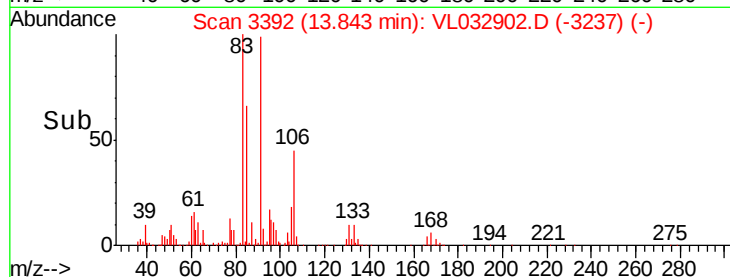
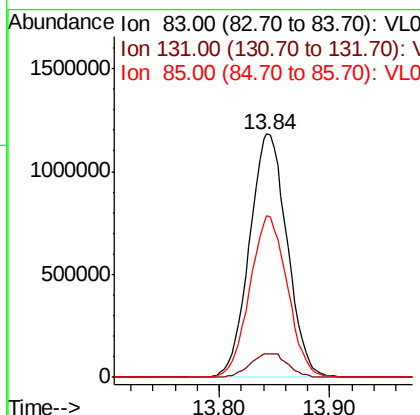
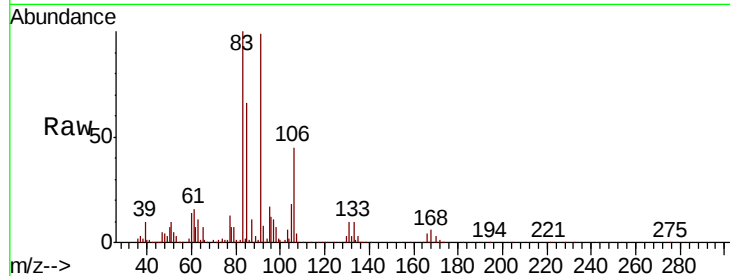
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.771 ppbv
 RT: 13.84 min Scan# 3392
 Delta R.T. -0.00 min
 Lab File: VL032902.D
 Acq: 5 Dec 2018 7:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1204ABS01

Tot Ion	83	Resp	2798652
Ion Ratio	100	Lower	Upper
83	100		
131	9.9	4.7	14.1
85	66.1	32.5	97.4

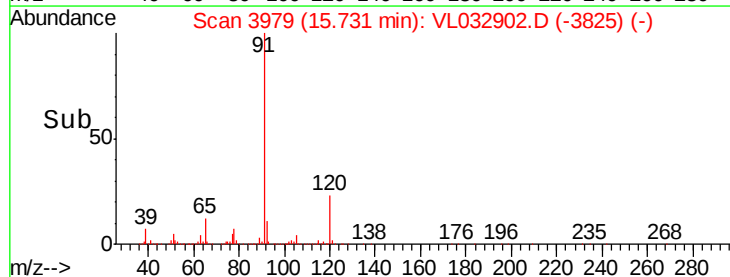
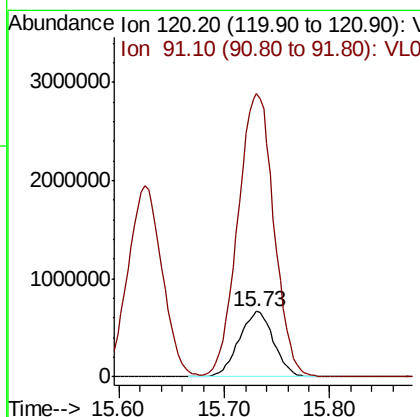
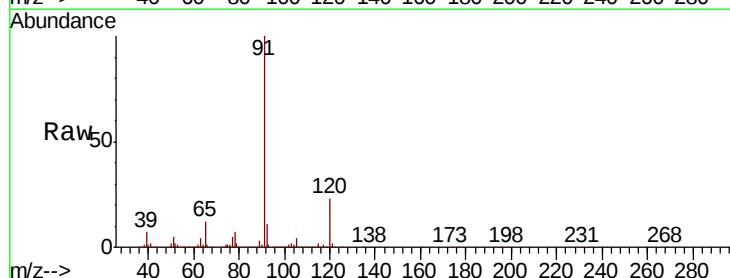
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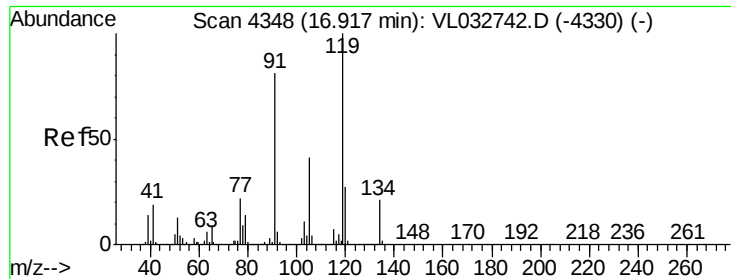
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#64
 n-propylbenzene
 Concen: 10.462 ppbv
 RT: 15.73 min Scan# 3979
 Delta R.T. -0.01 min
 Lab File: VL032902.D
 Acq: 5 Dec 2018 7:51

Tgt Ion	120	Resp	1522363
Ion Ratio	100	Lower	Upper
120	100		
91	451.5	381.7	572.5





#65

tert-Butylbenzene

Concen: 9.901 ppbv

RT: 16.92 min Scan# 4348

Delta R.T. 0.00 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

Instrument :

MSVOA_L

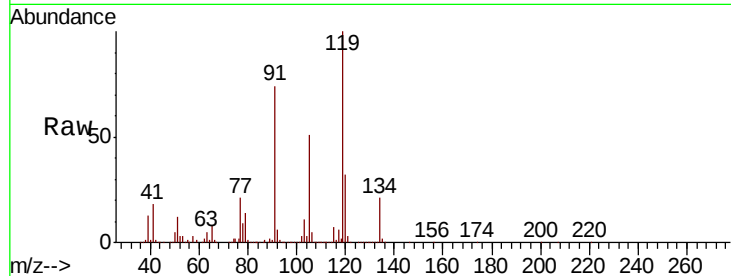
ClientSampleId :

VL1204ABS01

Tot Ion:	119	Resp:	4910223
Ion	Ratio	Lower	Upper
119	100		
91	77.0	65.6	98.4
134	20.0	15.9	23.9

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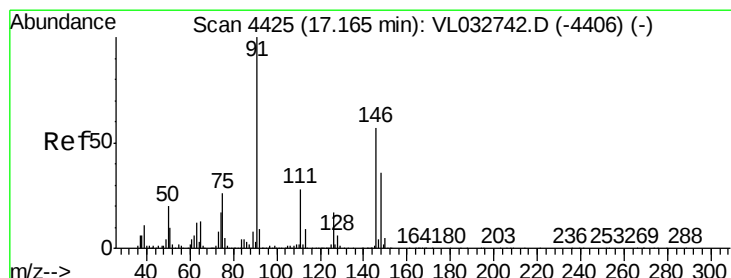
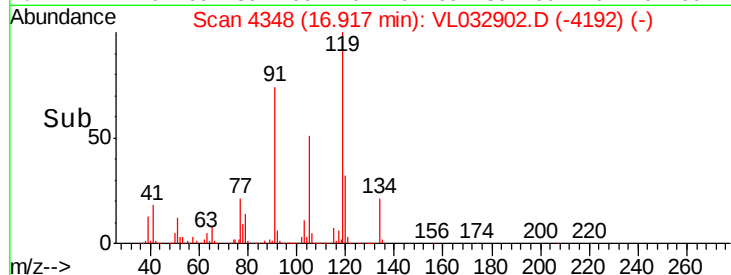
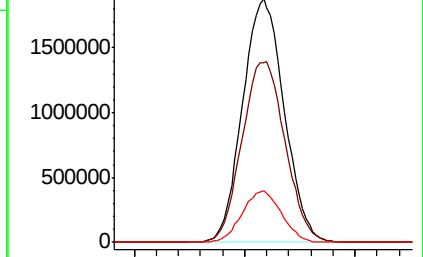
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Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 9.997 ppbv

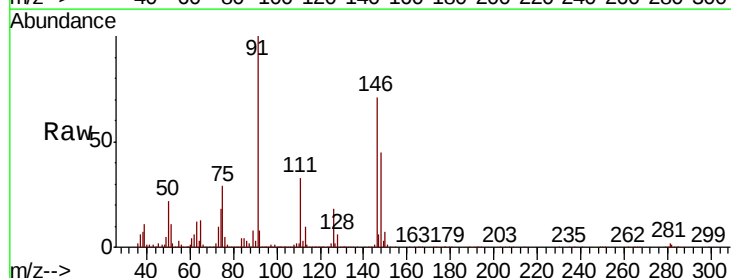
RT: 17.16 min Scan# 4425

Delta R.T. 0.00 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

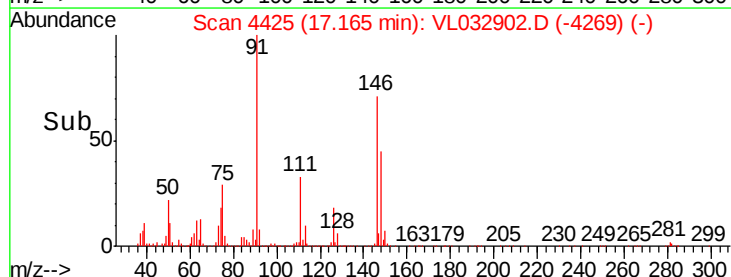
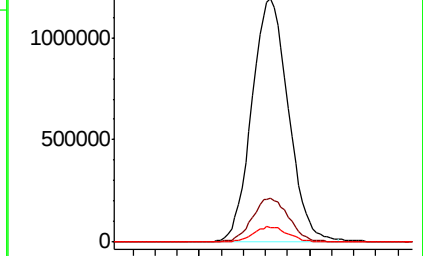
Tgt Ion:	91	Resp:	2741049
Ion	Ratio	Lower	Upper
91	100		
126	18.2	14.2	21.2
128	6.0	4.5	6.7

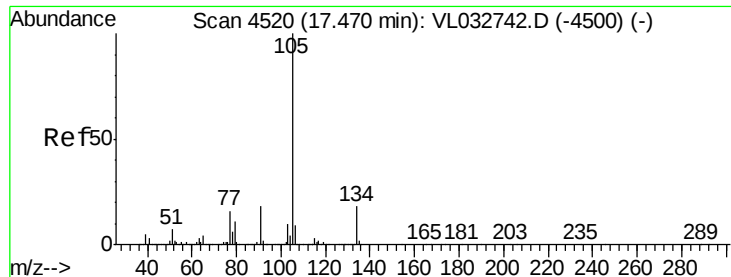


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 9.583 ppbv

RT: 17.47 min Scan# 4519

Delta R.T. -0.00 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

Instrument :

MSVOA_L

ClientSampleId :

VL1204ABS01

Tot Ion: 105 Resp: 6849274

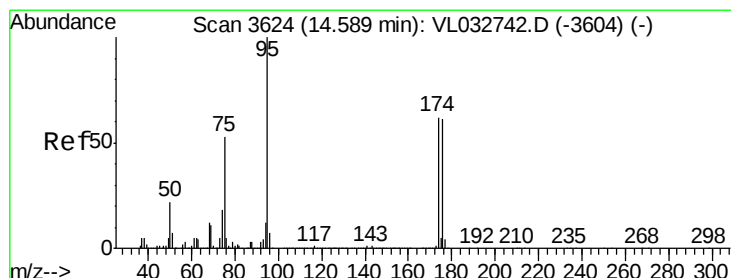
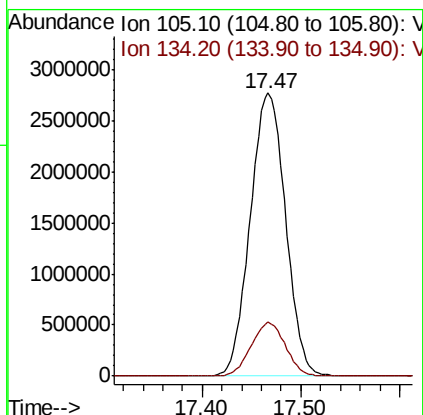
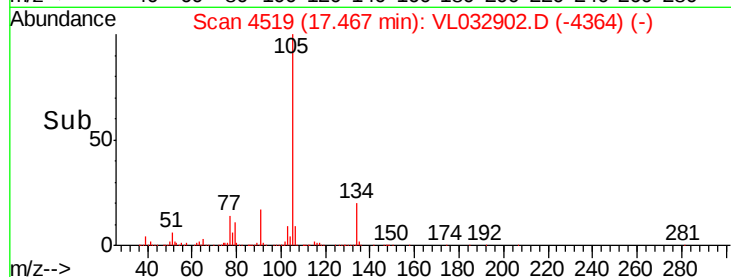
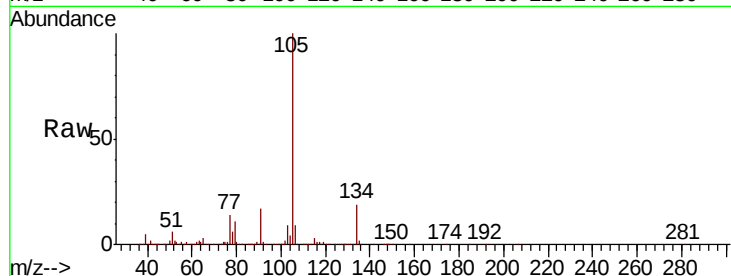
Ion Ratio Lower Upper

105 100

134 18.5 14.6 21.8

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#68

1-Bromo-4-Fluorobenzene

Concen: 9.430 ppbv

RT: 14.58 min Scan# 3622

Delta R.T. -0.01 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

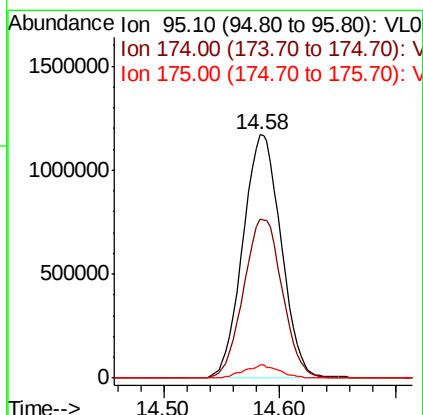
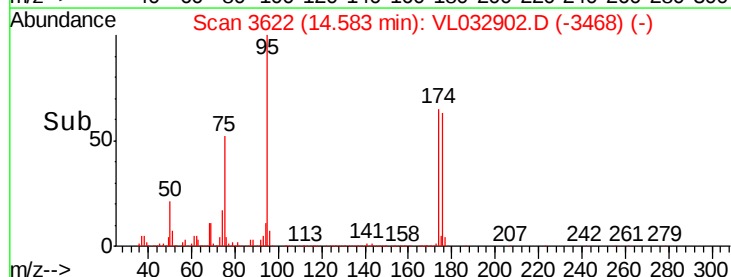
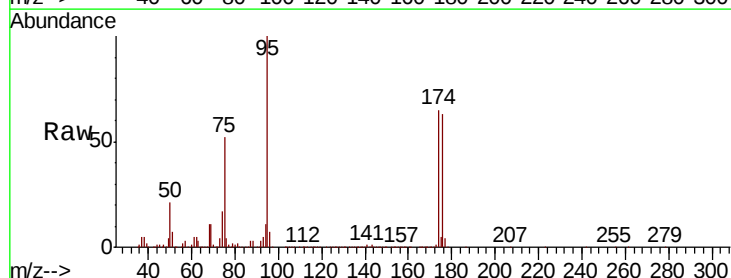
Tgt Ion: 95 Resp: 2679876

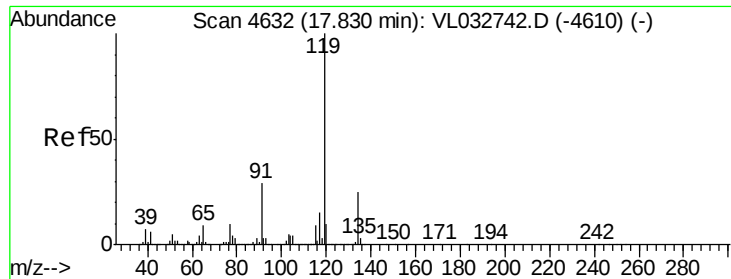
Ion Ratio Lower Upper

95 100

174 66.7 50.7 76.1

175 5.0 3.8 5.6





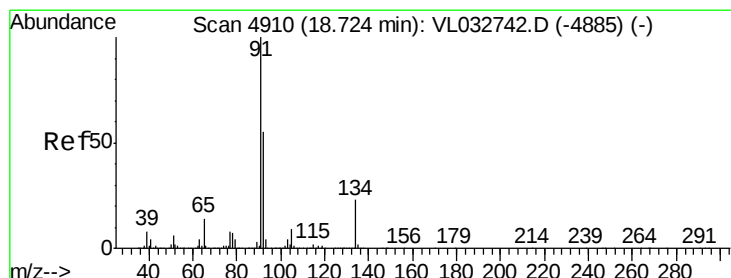
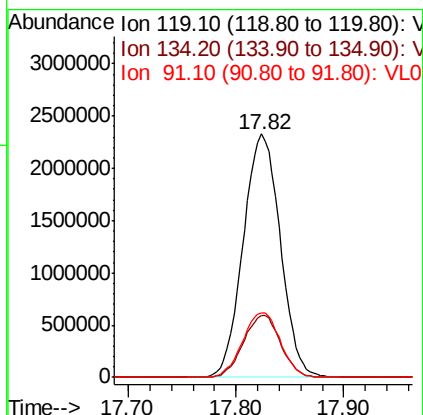
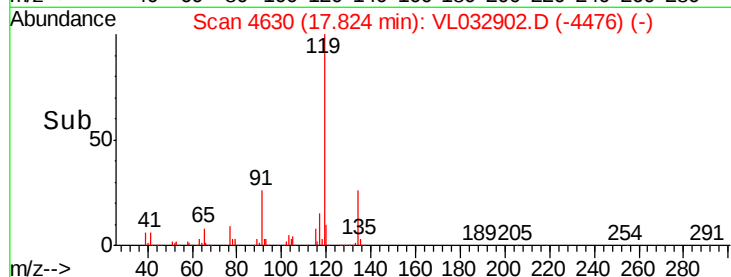
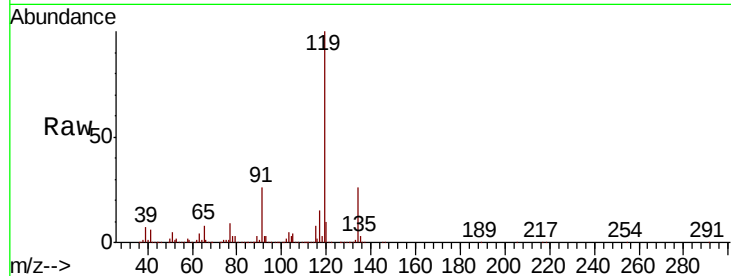
#69
 p-Isopropyltoluene
 Concen: 9.783 ppbv
 RT: 17.82 min Scan# 4630
 Delta R.T. -0.01 min
 Lab File: VL032902.D
 Acq: 5 Dec 2018 7:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1204ABS01

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.5	20.2	30.4
91	27.1	23.5	35.3

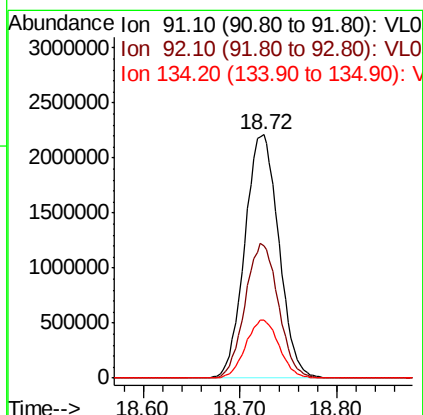
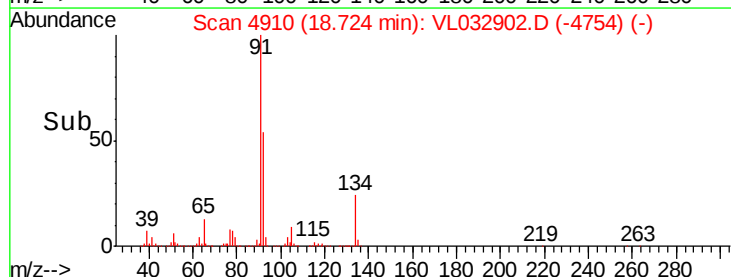
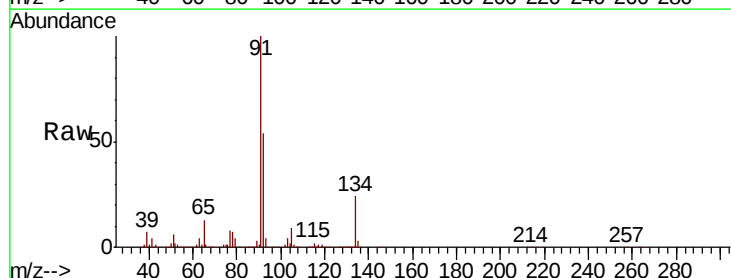
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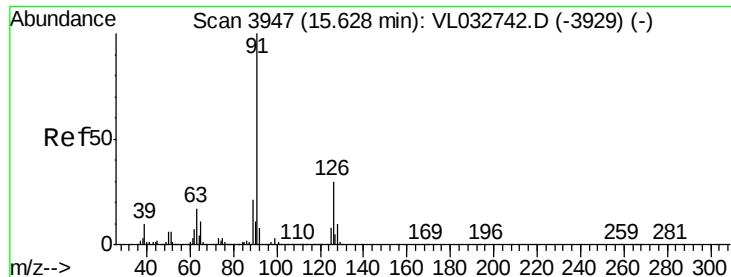
MMDadoda
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#70
 n-Butylbenzene
 Concen: 9.339 ppbv
 RT: 18.72 min Scan# 4910
 Delta R.T. 0.00 min
 Lab File: VL032902.D
 Acq: 5 Dec 2018 7:51

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.2	42.9	64.3
134	23.4	17.8	26.8





#71

2-Chlorotoluene

Concen: 10.705 ppbv

RT: 15.62 min Scan# 3946

Delta R.T. -0.00 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

Instrument :

MSVOA_L

ClientSampleId :

VL1204ABS01

Tot Ion: 91 Resp: 4416926

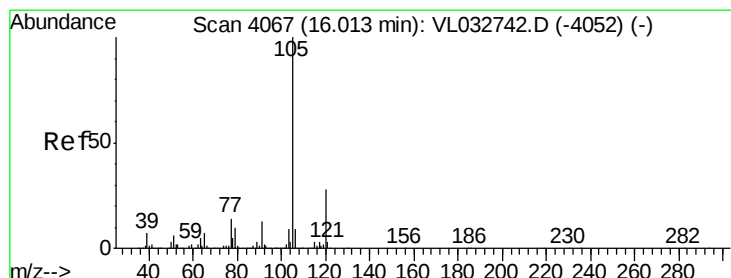
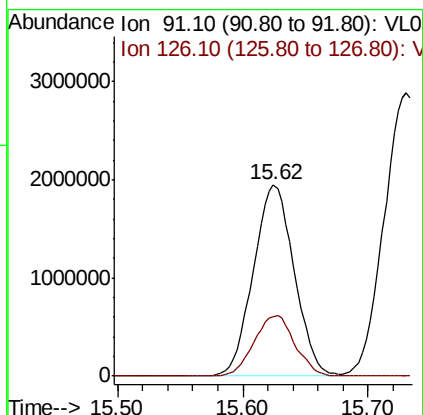
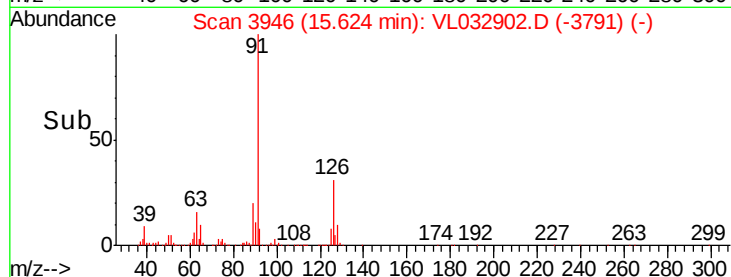
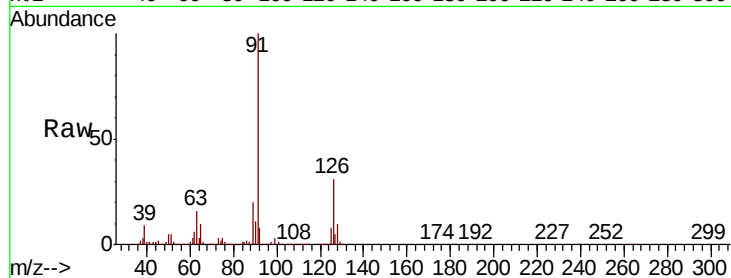
Ion Ratio Lower Upper

91 100

126 31.7 12.1 48.5

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#72

4-Ethyltoluene

Concen: 10.046 ppbv

RT: 16.01 min Scan# 4065

Delta R.T. -0.01 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

Tgt Ion: 105 Resp: 4506958

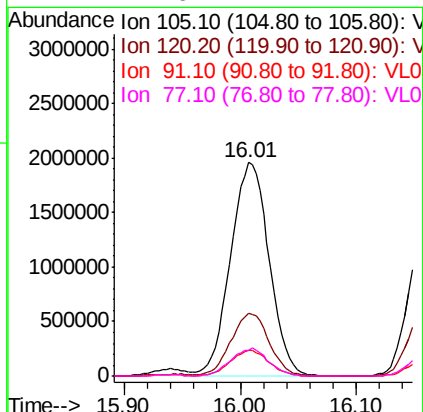
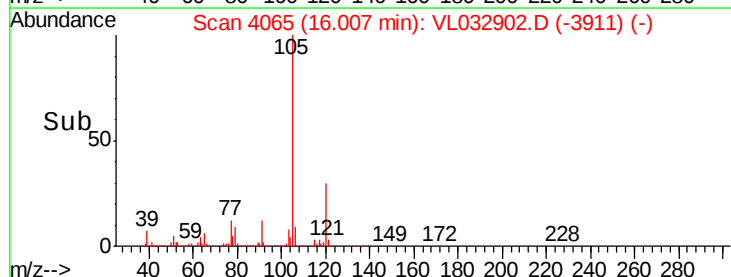
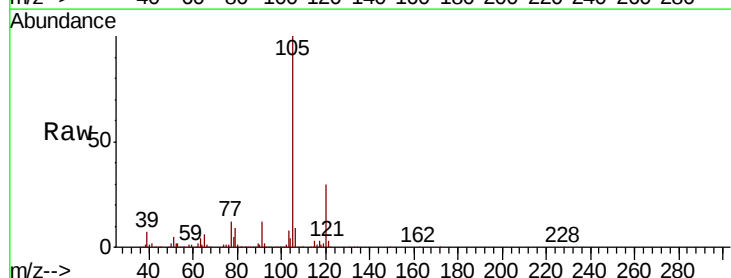
Ion Ratio Lower Upper

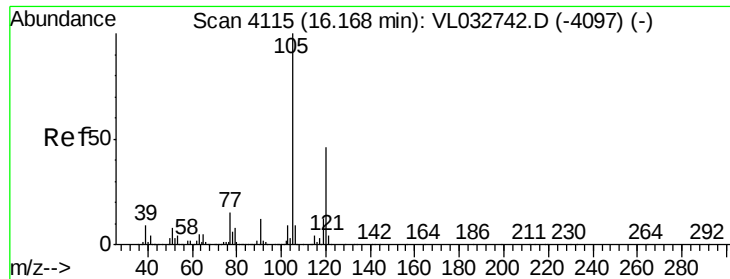
105 100

120 29.2 22.9 34.3

91 12.0 10.6 15.8

77 12.6 11.4 17.2





#73

1,3,5-Trimethylbenzene

Concen: 9.736 ppbv

RT: 16.16 min Scan# 4114

Delta R.T. -0.00 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

Instrument :

MSVOA_L

ClientSampleId :

VL1204ABS01

Tot Ion:105 Resp: 4270418

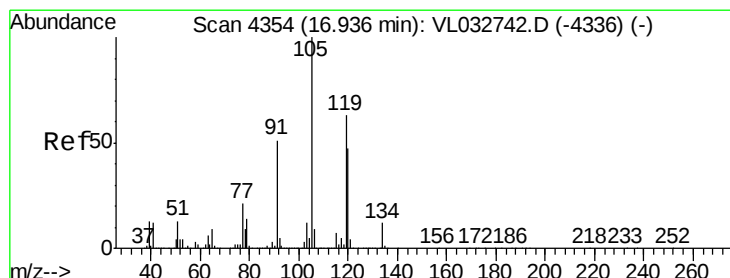
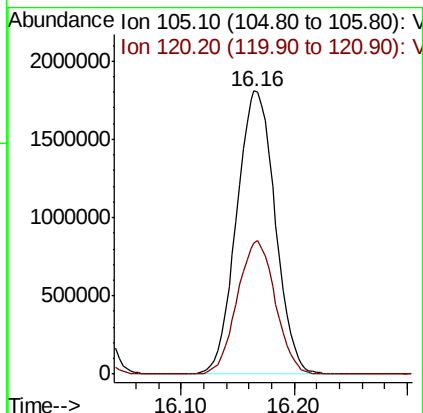
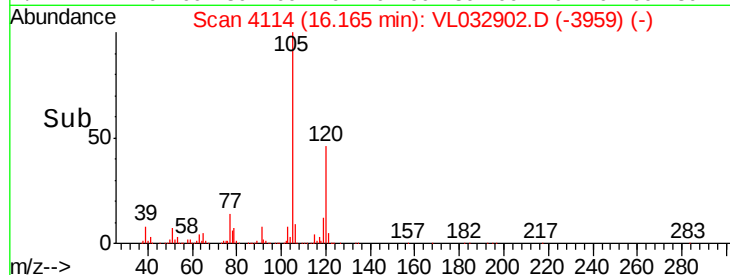
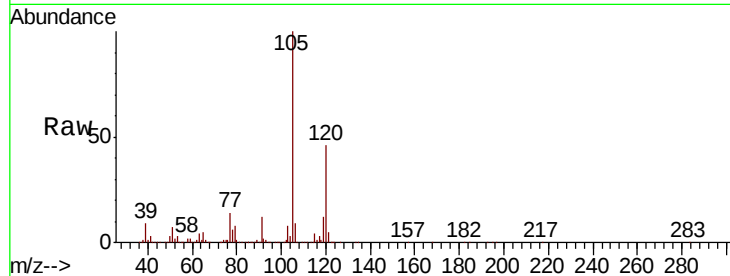
Ion Ratio Lower Upper

105 100

120 46.1 36.6 55.0

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#74

1,2,4-Trimethylbenzene

Concen: 9.064 ppbv

RT: 16.94 min Scan# 4354

Delta R.T. 0.00 min

Lab File: VL032902.D

Acq: 5 Dec 2018 7:51

Tgt Ion:105 Resp: 4254693

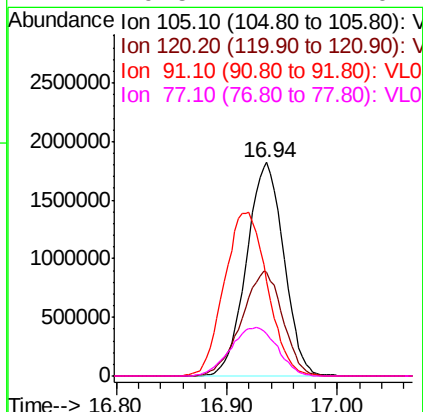
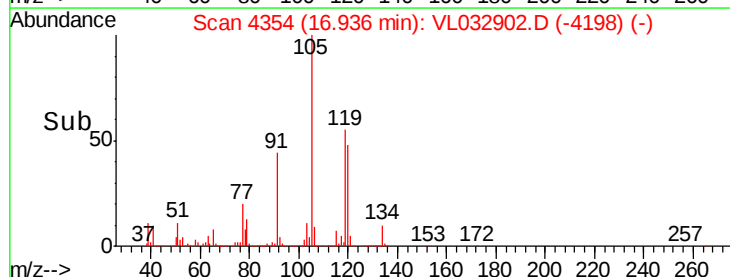
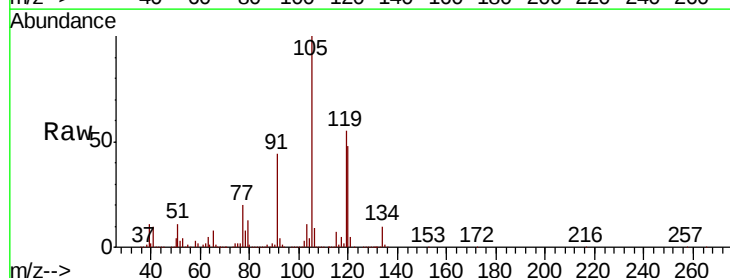
Ion Ratio Lower Upper

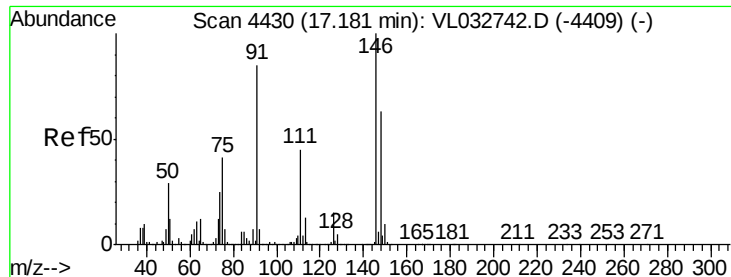
105 100

120 48.4 37.6 56.4

91 44.0 42.5 63.7

77 19.5 17.4 26.2





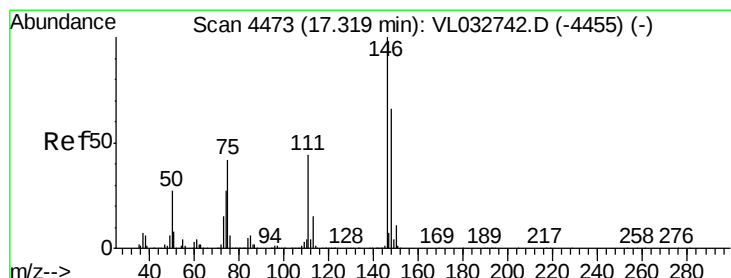
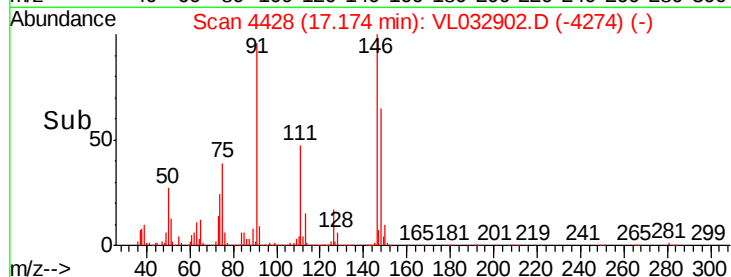
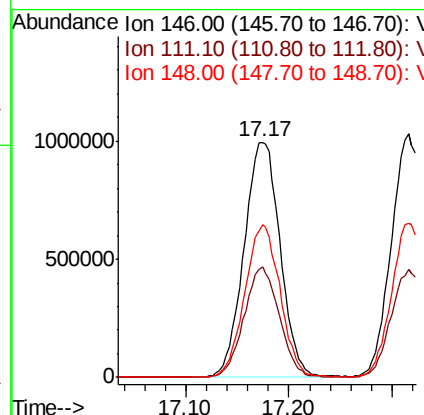
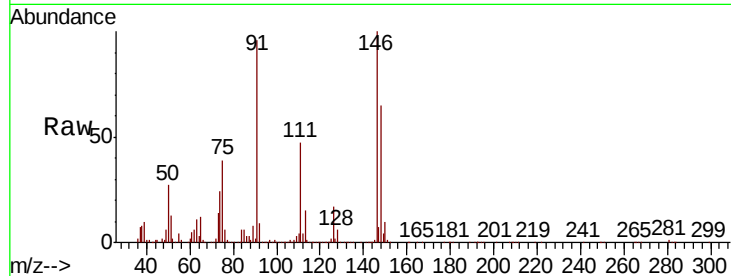
#75
 1,3-Dichlorobenzene
 Concen: 8.997 ppbv
 RT: 17.17 min Scan# 4428
 Delta R.T. -0.01 min
 Lab File: VL032902.D
 Acq: 5 Dec 2018 7:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1204ABS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	45.9	23.5	70.6
148	63.5	31.8	95.3

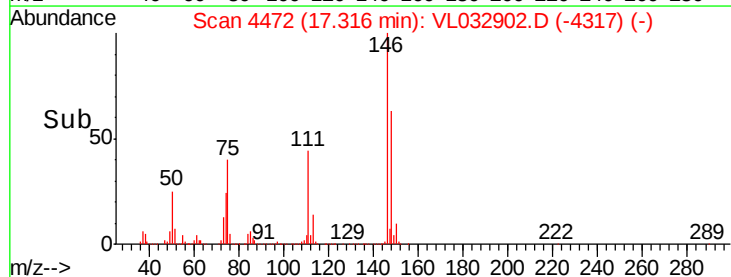
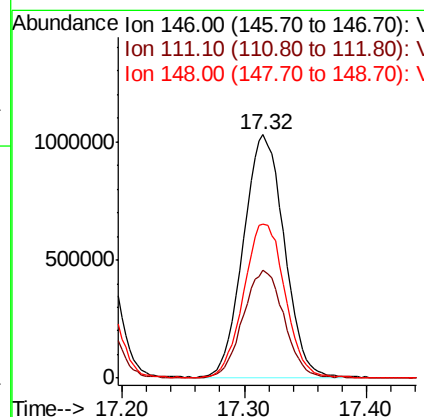
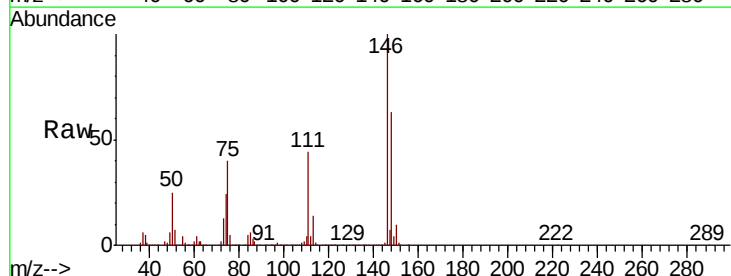
Manual Integrations
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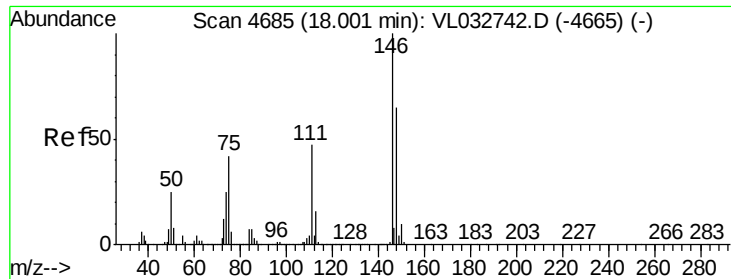
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#76
 1,4-Dichlorobenzene
 Concen: 9.452 ppbv
 RT: 17.32 min Scan# 4472
 Delta R.T. -0.00 min
 Lab File: VL032902.D
 Acq: 5 Dec 2018 7:51

Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.7	22.5	67.5
148	64.6	32.5	97.5





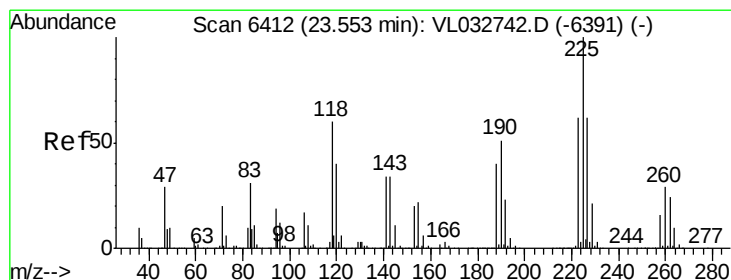
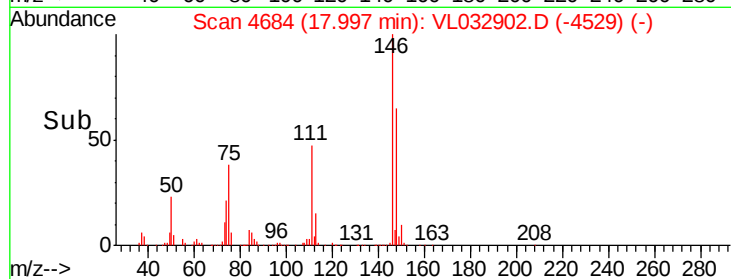
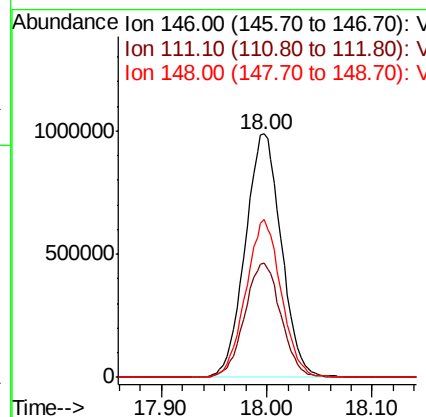
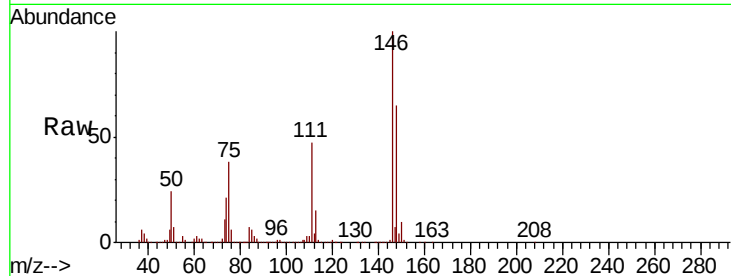
#77
 1,2-Dichlorobenzene
 Concen: 9.427 ppbv
 RT: 18.00 min Scan# 4684
 Delta R.T. -0.00 min
 Lab File: VL032902.D
 Acq: 5 Dec 2018 7:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1204ABS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.2	24.4	73.2
148	63.7	32.2	96.6

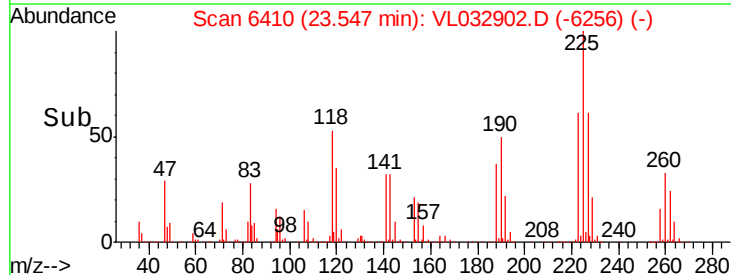
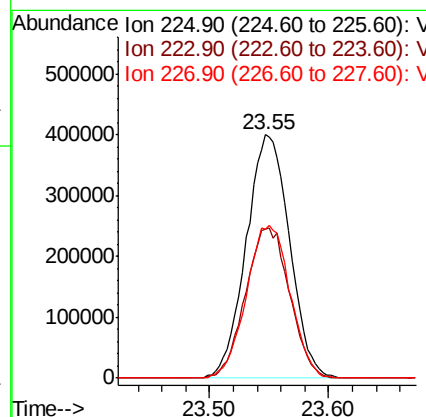
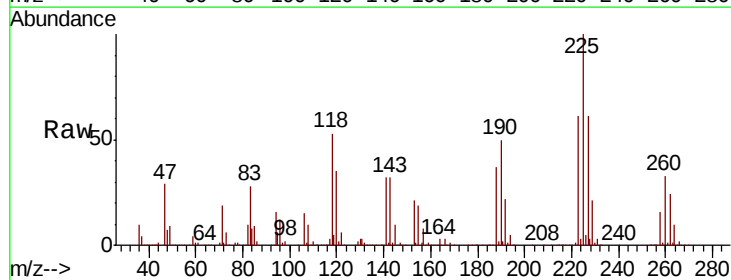
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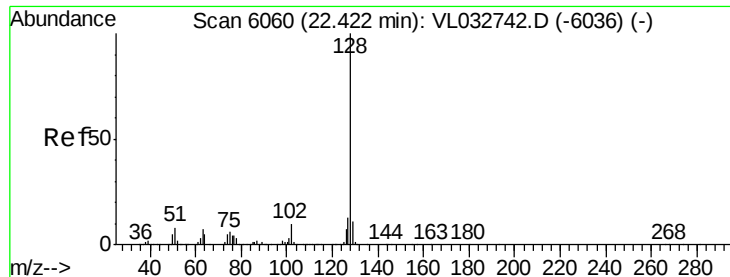
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#78
 Hexachloro-1,3-Butadiene
 Concen: 7.509 ppbv
 RT: 23.55 min Scan# 6410
 Delta R.T. -0.01 min
 Lab File: VL032902.D
 Acq: 5 Dec 2018 7:51

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.7	50.3	75.5
227	63.4	50.2	75.4





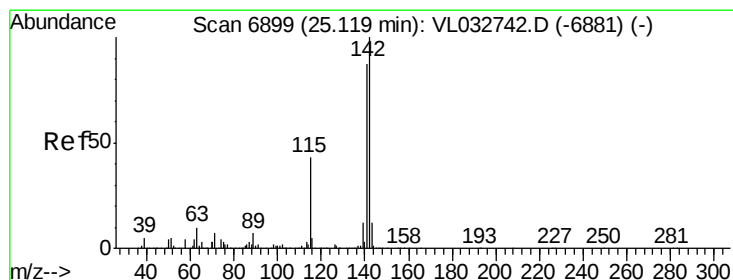
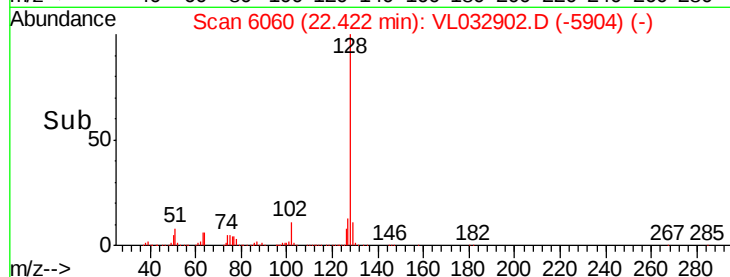
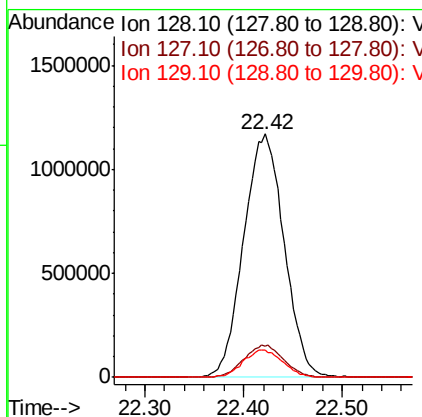
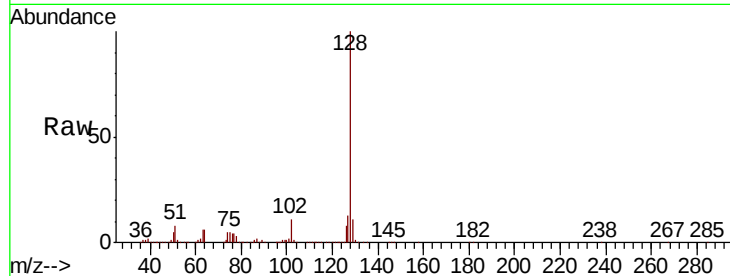
#79
Naphthalene
Concen: 10.777 ppbv
RT: 22.42 min Scan# 6060
Delta R.T. 0.00 min
Lab File: VL032902.D
Acq: 5 Dec 2018 7:51

Instrument :
MSVOA_L
ClientSampleId :
VL1204ABS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.1	15.1
129	11.3	8.9	13.3

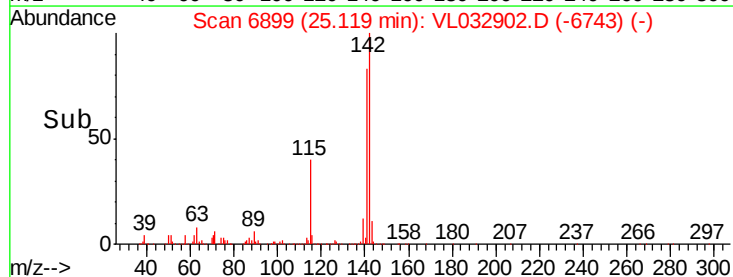
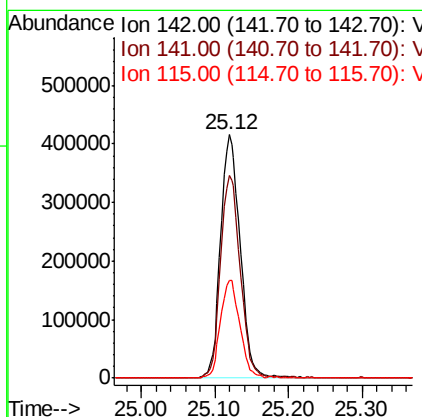
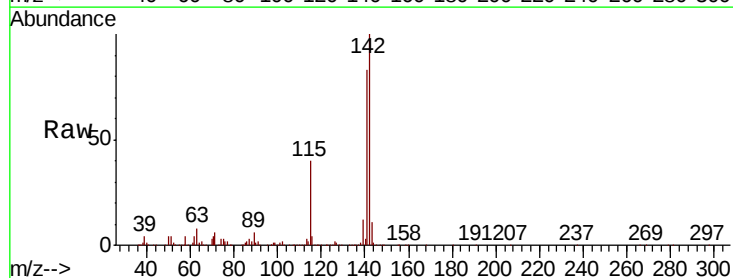
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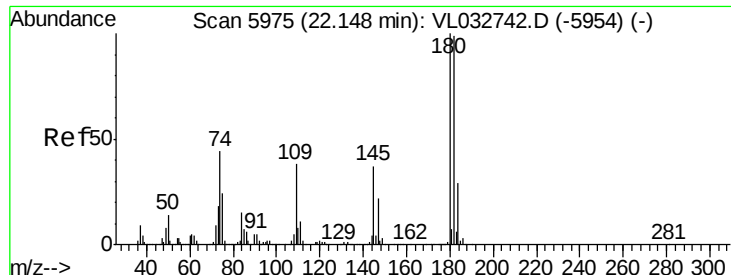
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#80
Naphthalene, 2-methyl-
Concen: 9.955 ppbv
RT: 25.12 min Scan# 6899
Delta R.T. 0.00 min
Lab File: VL032902.D
Acq: 5 Dec 2018 7:51

Tgt Ion	Ratio	Lower	Upper
142	100		
141	83.5	68.7	103.1
115	40.1	35.5	53.3





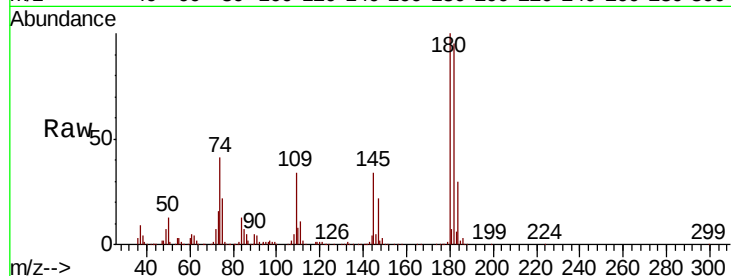
#81
 1,2,4-Trichlorobenzene
 Concen: 10.644 ppbv
 RT: 22.14 min Scan# 5973
 Delta R.T. -0.01 min
 Lab File: VL032902.D
 Acq: 5 Dec 2018 7:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1204ABS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.5	77.3	115.9
184	30.6	24.2	36.4

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Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

