

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL120718\
 Data File : VL032951.D
 Acq On : 8 Dec 2018 2:24
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 12/11/2018 10:09:51 AM

Quant Time: Dec 08 04:49:43 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL120718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec 0
 QLast Update : Fri Dec 07 09:35:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1478664	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3612441	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3518639m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2589078	9.96	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.60%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.08	85	1887669	9.563	ppbv	99
3) Chlorodifluoromethane	3.01	51	1086809	9.705	ppbv	96
4) Chloromethane	3.17	50	611775	9.384	ppbv	97
5) Vinyl Chloride	3.29	62	615129	9.273	ppbv	97
6) Bromomethane	3.51	94	398157	9.596	ppbv	98
7) Chloroethane	3.60	64	228853	9.626	ppbv	97
8) Dichlorotetrafluoroethane	3.22	85	1504275	9.170	ppbv	98
9) Propene	3.04	41	478774	10.812	ppbv	98
10) Heptane	8.25	43	1854770	11.151	ppbv	99
11) Trichlorofluoromethane	4.00	101	1600583	8.606	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1384607	8.726	ppbv	99
13) Ethanol	3.65	45	112810	7.399	ppbv	97
14) Bromoethene	3.79	108	497531	9.444	ppbv	99
15) Acetone	3.90	43	1028225	8.101	ppbv	98
16) 1,3-Butadiene	3.36	39	501508	9.960	ppbv	96
17) tert-Butyl alcohol	4.36	59	351968	10.892	ppbv #	83
18) 1,1-Dichloroethene	4.35	96	643490	10.355	ppbv	99
19) Isopropyl Alcohol	4.02	45	754080	9.461	ppbv	100
20) Methylene Chloride	4.41	84	551314	8.888	ppbv	95
21) Allyl Chloride	4.48	41	1025331	9.913	ppbv	97
22) trans-1,2-Dichloroethene	4.97	96	627753	8.140	ppbv	99
23) Vinyl Acetate	5.16	43	2210892	10.289	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1634251	8.746	ppbv	99
25) Ethyl Acetate	5.77	43	3035681	10.125	ppbv	99
26) Hexane	5.78	57	1373924	9.926	ppbv	96
27) Carbon Disulfide	4.62	76	1746010	10.088	ppbv	100
28) Methyl tert-Butyl Ether	5.11	73	2069251	9.954	ppbv	99
29) Chloroform	5.85	83	2291640	9.279	ppbv	98
30) Cyclohexane	7.25	84	1204405	10.498	ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	1454237	11.449	ppbv	98
32) 1,1,1-Trichloroethane	6.62	97	2058986	7.879	ppbv	99
34) 2-Butanone	5.33	43	1959167	12.451	ppbv	100
35) Carbon Tetrachloride	7.14	117	2485736	8.754	ppbv	98
36) Benzene	7.01	78	2862539	10.774	ppbv	98
37) 1,2-Dichloroethane	6.42	62	1607945	8.889	ppbv	98
38) Trichloroethene	7.97	130	1190895	10.770	ppbv	99
39) 1,2-Dichloropropane	7.74	63	1096187	10.878	ppbv	95
40) 1,4-Dioxane	7.95	88	394197	10.620	ppbv #	95
41) Tetrahydrofuran	6.15	42	1058366	10.815	ppbv	98
42) Bromodichloromethane	7.92	83	2485061	9.915	ppbv	98
43) Methyl Methacrylate	8.14	69	1153064	11.712	ppbv	100

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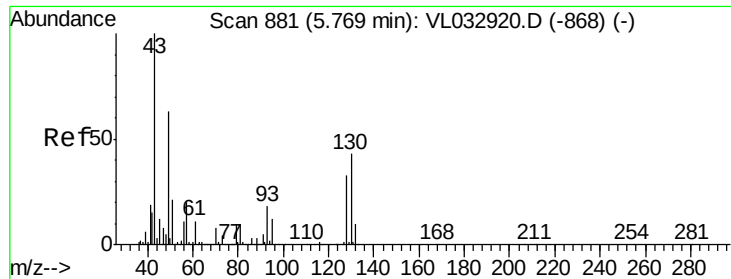
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec 0
 QLast Update : Fri Dec 07 09:35:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	4872598	10.804	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	1544538	12.795	ppbv	99
46) cis-1,3-Dichloropropene	8.84	75	1793867	12.141	ppbv	98
47) 1,1,2-Trichloroethane	9.62	97	1195334	10.777	ppbv	99
48) Dibromochloromethane	10.45	129	2185447	10.503	ppbv	100
49) Bromoform	13.21	173	1814978	10.606	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	2774105	11.025	ppbv	100
51) 2-Hexanone	10.27	43	2082892	12.206	ppbv #	98
52) Tetrachloroethene	11.38	164	1085582	11.232	ppbv	97
53) Toluene	9.95	91	3369856	11.958	ppbv	99
54) 1,2-Dibromoethane	10.77	107	1861833	10.745	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.28	131	1519021	9.683	ppbv	99
57) Chlorobenzene	12.31	112	2500126	9.838	ppbv	99
58) Ethyl Benzene	12.87	91	4504854	12.001	ppbv	98
59) m/p-Xylene	13.16	91	7453807m	21.903	ppbv	
60) o-Xylene	13.85	91	3854463	11.216	ppbv	99
61) Styrene	13.69	104	2804894	12.269	ppbv	98
62) Isopropylbenzene	14.83	105	5631040	11.744	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	2643002	9.904	ppbv	99
64) n-propylbenzene	15.73	120	1333689	10.709	ppbv	97
65) tert-Butylbenzene	16.91	119	4858212	10.929	ppbv	99
66) Benzyl Chloride	17.16	91	2806149	11.390	ppbv	99
67) sec-Butylbenzene	17.46	105	6271349	9.569	ppbv	99
69) p-Isopropyltoluene	17.82	119	5241147	9.868	ppbv	99
70) n-Butylbenzene	18.72	91	5388213	11.027	ppbv	100
71) 2-Chlorotoluene	15.62	91	3871586	10.858	ppbv	100
72) 4-Ethyltoluene	16.01	105	4296371	11.198	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	4052852	10.820	ppbv	100
74) 1,2,4-Trimethylbenzene	16.93	105	4354388	10.296	ppbv	93
75) 1,3-Dichlorobenzene	17.17	146	2474997	9.937	ppbv	99
76) 1,4-Dichlorobenzene	17.32	146	2258251	9.717	ppbv	99
77) 1,2-Dichlorobenzene	17.99	146	2229567	9.586	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	1457644	11.396	ppbv	99
79) Naphthalene	22.42	128	3219979	11.791	ppbv	99
80) Naphthalene,2-methyl-	25.12	142	928649	15.916	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	1586555	10.955	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.00 min

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MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 49 Resp: 1478664

Ion Ratio Lower Upper

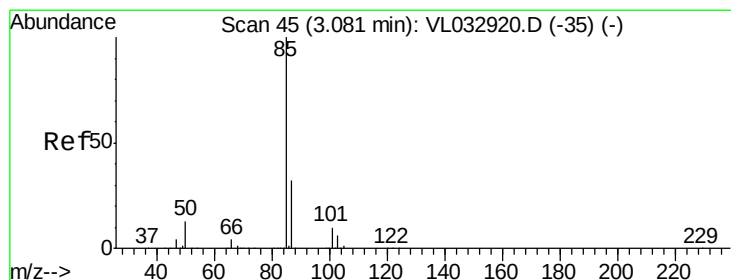
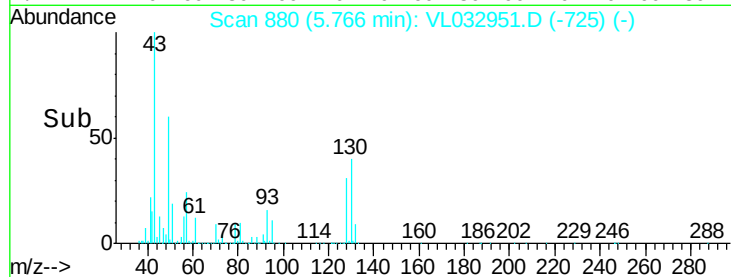
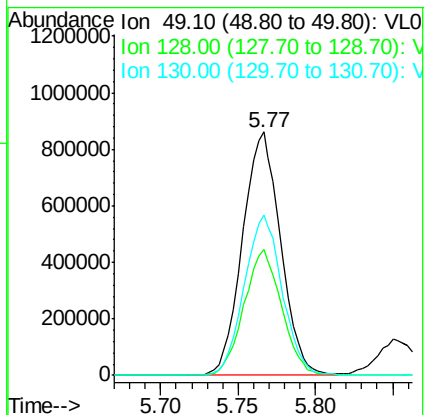
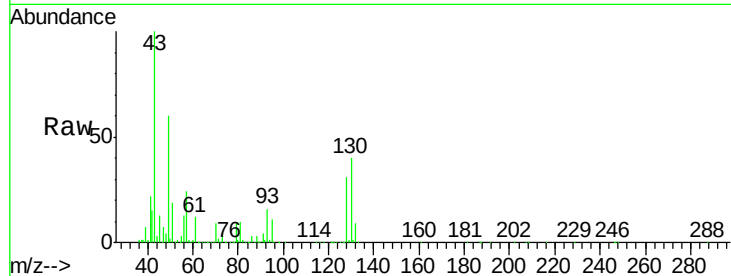
49 100

128 51.4 26.3 78.8

130 65.6 33.9 101.7

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#2

Dichlorodifluoromethane

Concen: 9.563 ppbv

RT: 3.08 min Scan# 44

Delta R.T. -0.00 min

Lab File: VL032951.D

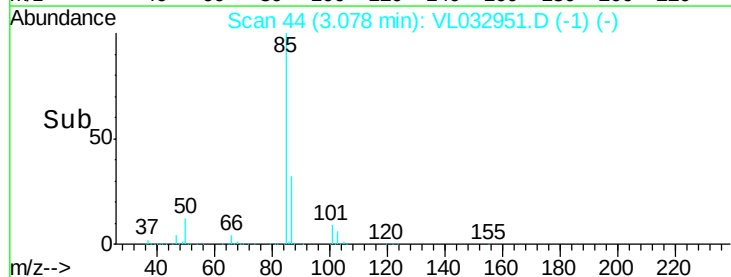
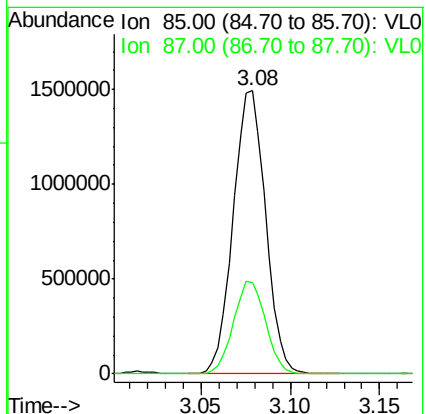
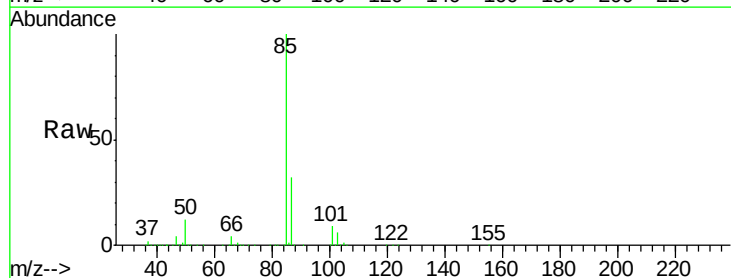
Acq: 8 Dec 2018 2:24

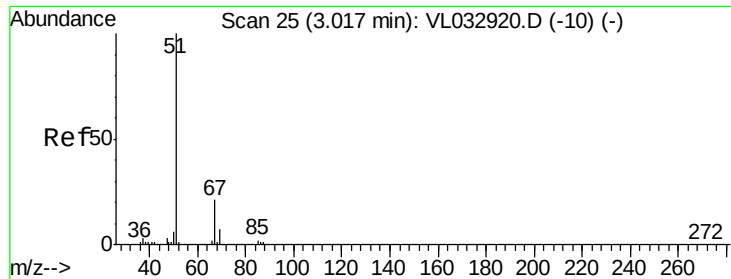
Tgt Ion: 85 Resp: 1887669

Ion Ratio Lower Upper

85 100

87 32.4 25.7 38.5





#3

Chlorodifluoromethane

Concen: 9.705 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL032951.D

Acq: 8 Dec 2018 2:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 51 Resp: 1086809

Ion Ratio Lower Upper

51 100

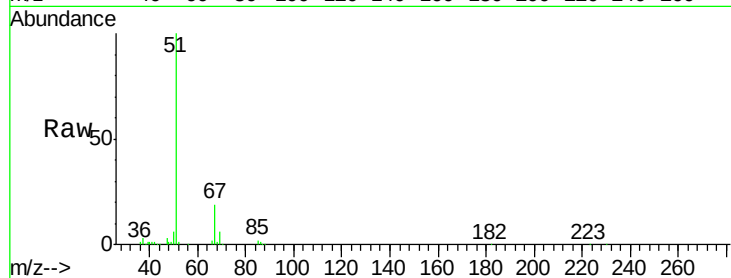
67 19.2 16.8 25.2

Manual Integrations

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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

1000000

800000

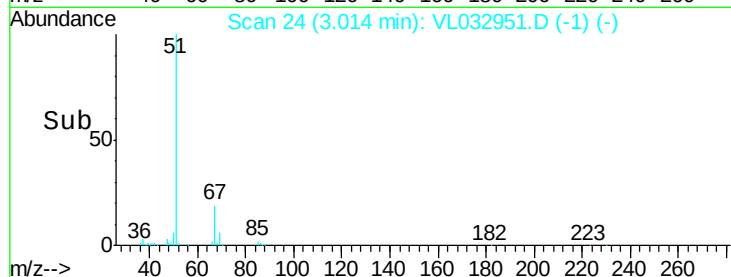
600000

400000

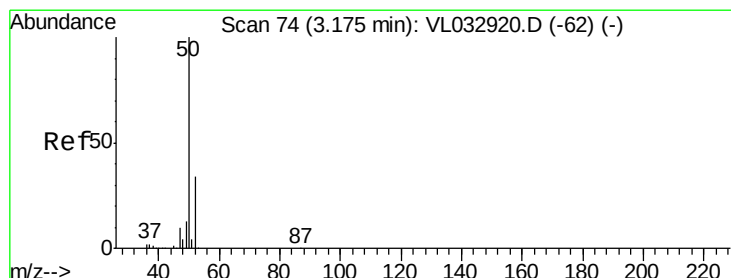
200000

0

Time-->



Time-->



#4

Chloromethane

Concen: 9.384 ppbv

RT: 3.17 min Scan# 73

Delta R.T. -0.00 min

Lab File: VL032951.D

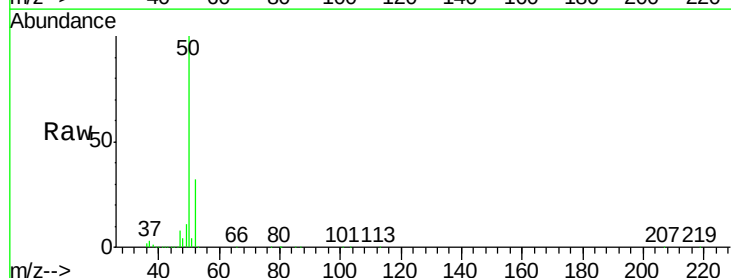
Acq: 8 Dec 2018 2:24

Tgt Ion: 50 Resp: 611775

Ion Ratio Lower Upper

50 100

52 32.4 27.3 40.9



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

500000

400000

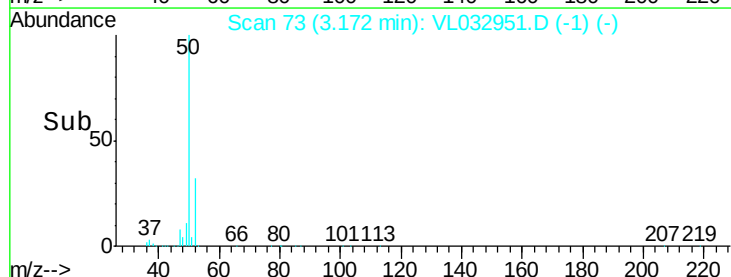
300000

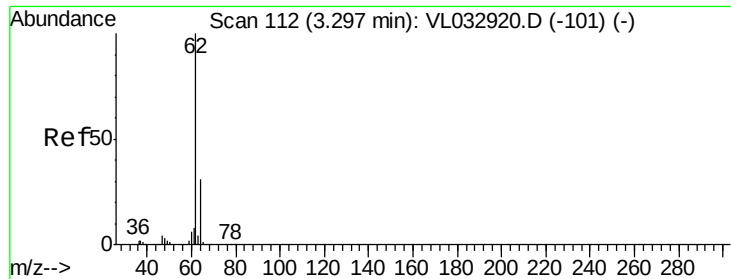
200000

100000

0

Time-->





#5

Vinyl Chloride

Concen: 9.273 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.01 min

Lab File: VL032951.D

Acq: 8 Dec 2018 2:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 62 Resp: 615129

Ion Ratio Lower Upper

62 100

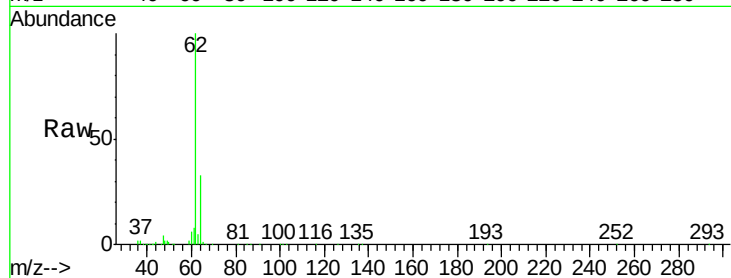
64 32.7 24.8 37.2

Manual Integrations

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.29

400000

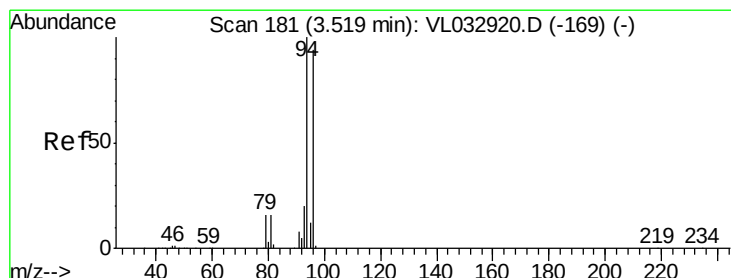
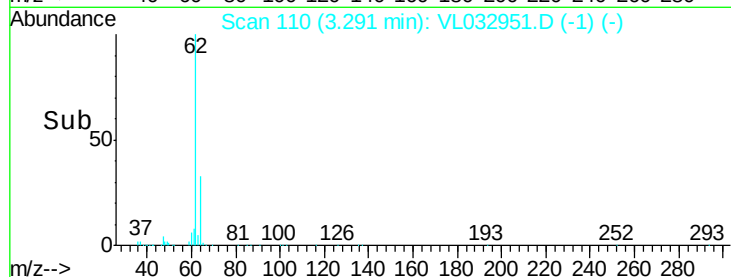
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 9.596 ppbv

RT: 3.51 min Scan# 179

Delta R.T. -0.01 min

Lab File: VL032951.D

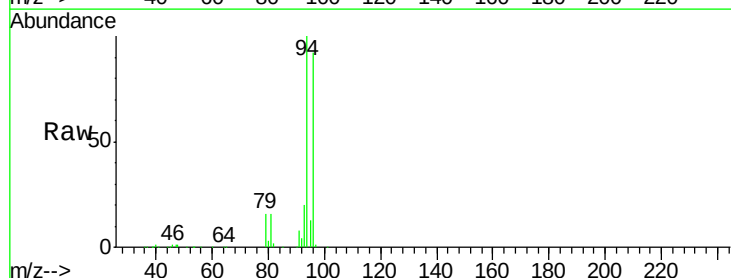
Acq: 8 Dec 2018 2:24

Tgt Ion: 94 Resp: 398157

Ion Ratio Lower Upper

94 100

96 92.1 75.5 113.3



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.51

300000

250000

200000

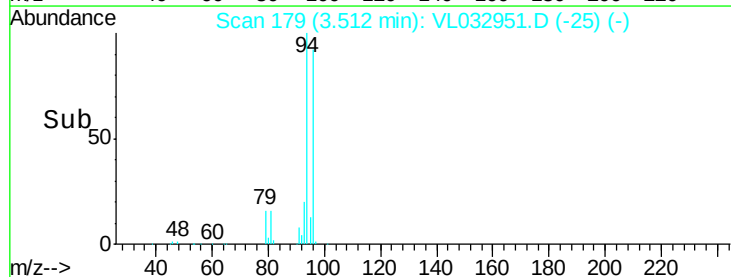
150000

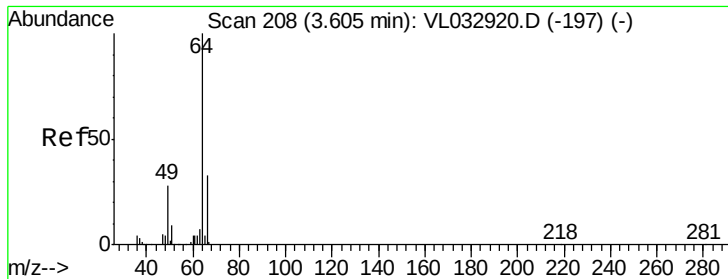
100000

50000

0

Time-->





#7

Chloroethane

Concen: 9.626 ppbv

RT: 3.60 min Scan# 206

Delta R.T. -0.01 min

Lab File: VL032951.D

Acq: 8 Dec 2018 2:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 64 Resp: 228853

Ion Ratio Lower Upper

64 100

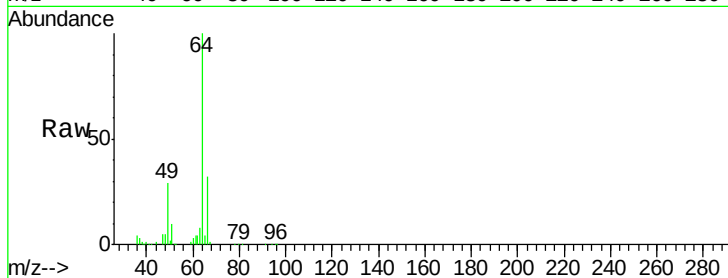
66 31.6 26.6 40.0

Manual Integrations

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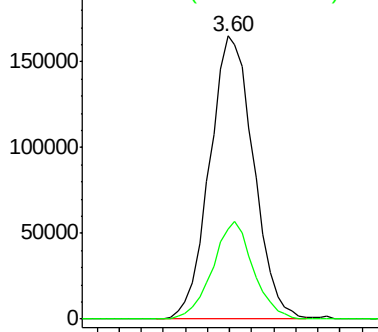
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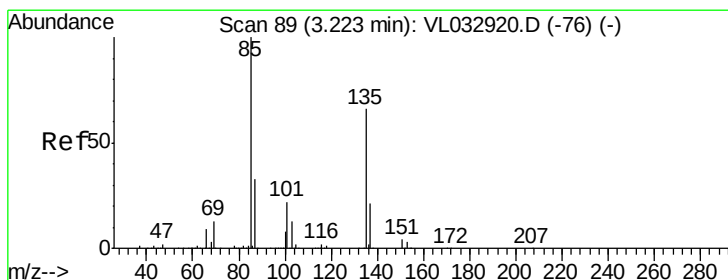
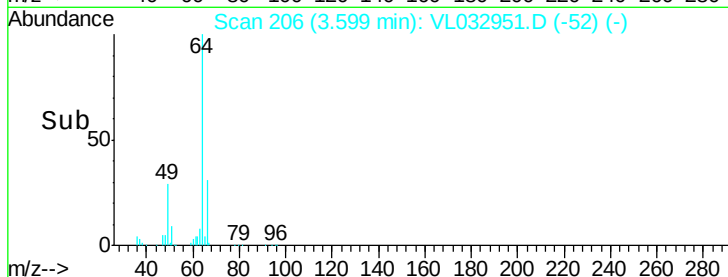


Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



Time-->



#8

Dichlorotetrafluoroethane

Concen: 9.170 ppbv

RT: 3.22 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL032951.D

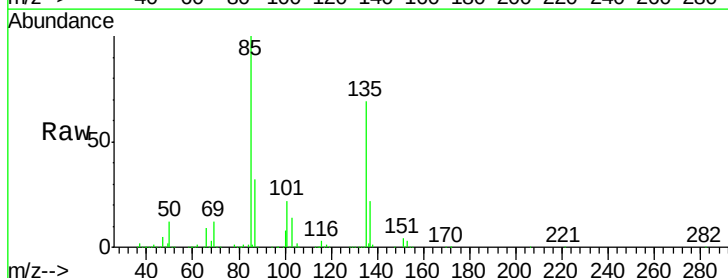
Acq: 8 Dec 2018 2:24

Tgt Ion: 85 Resp: 1504275

Ion Ratio Lower Upper

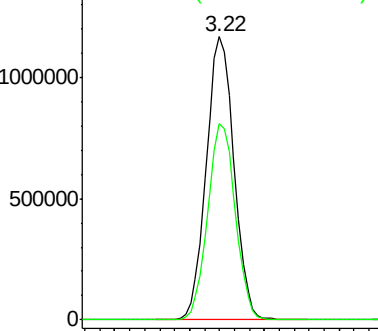
85 100

135 69.5 54.5 81.7

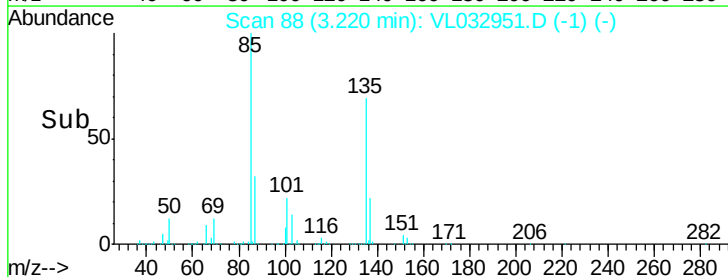


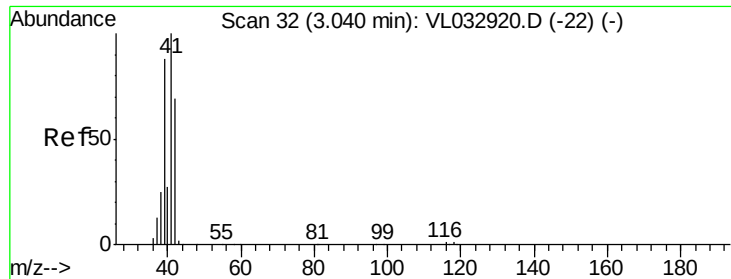
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V



Time-->





#9

Propene

Concen: 10.812 ppbv

RT: 3.04 min Scan# 31

Delta R.T. -0.00 min

Lab File: VL032951.D

Acq: 8 Dec 2018 2:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 41 Resp: 478774

Ion Ratio Lower Upper

41 100

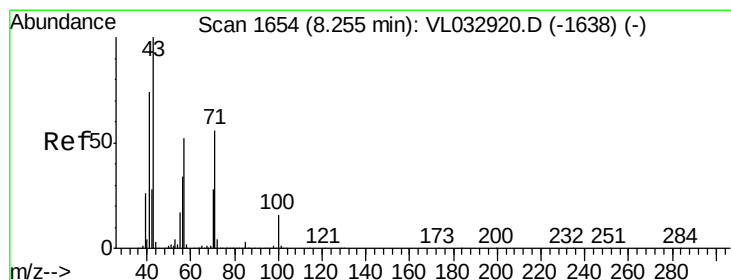
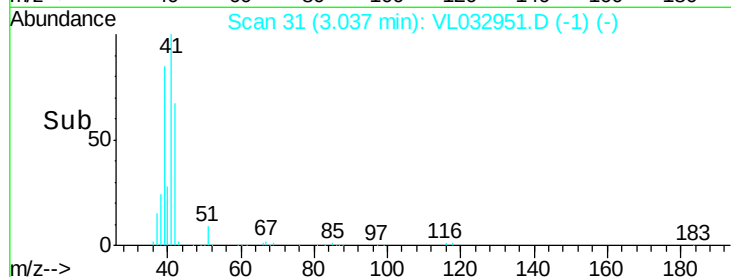
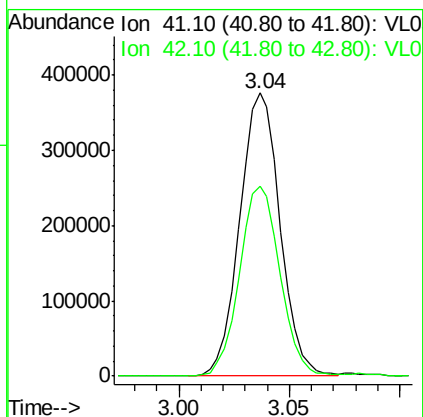
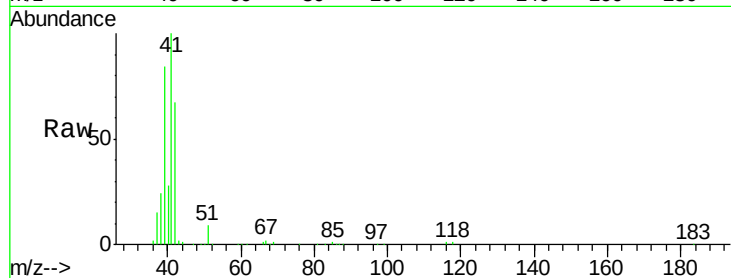
42 68.5 56.2 84.2

Manual Integrations

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#10

Heptane

Concen: 11.151 ppbv

RT: 8.25 min Scan# 1652

Delta R.T. -0.01 min

Lab File: VL032951.D

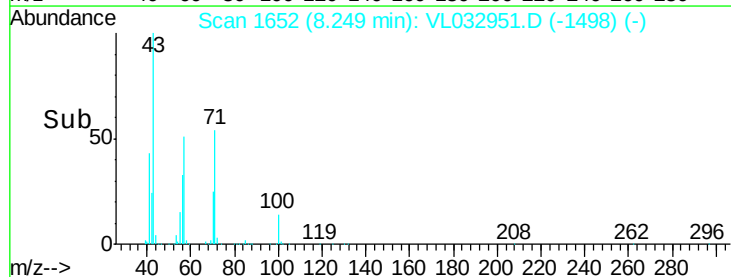
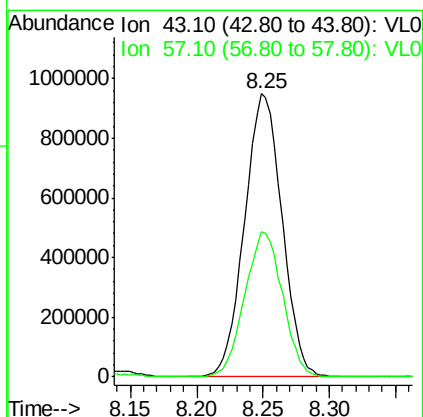
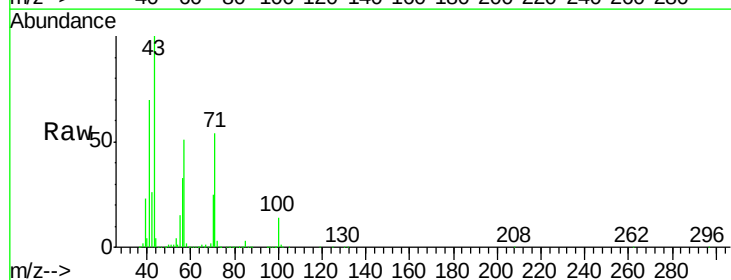
Acq: 8 Dec 2018 2:24

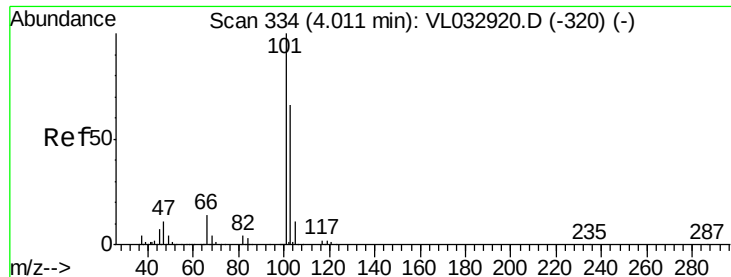
Tgt Ion: 43 Resp: 1854770

Ion Ratio Lower Upper

43 100

57 51.8 41.8 62.6





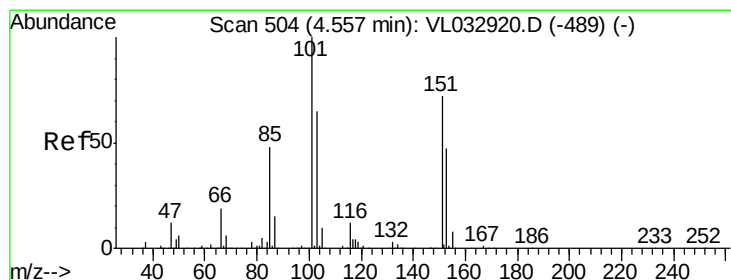
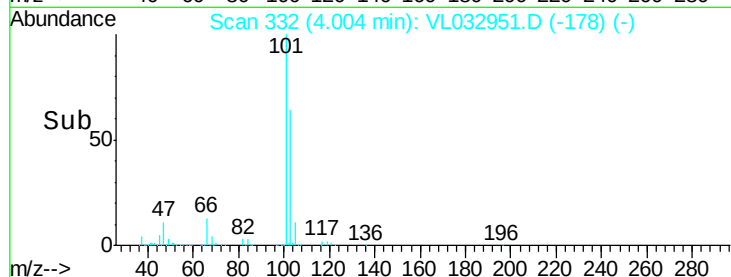
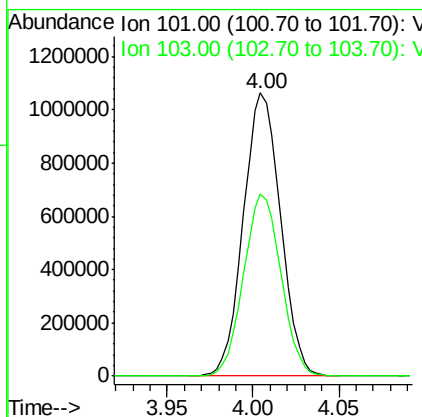
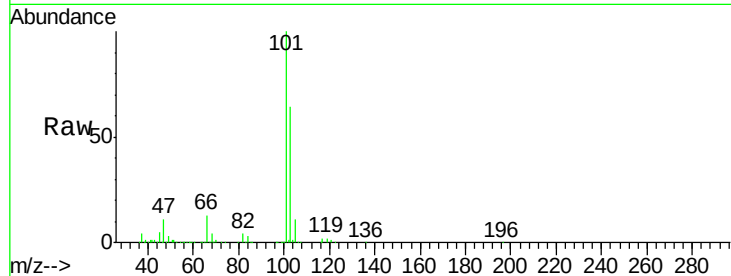
#11
 Trichlorofluoromethane
 Concen: 8.606 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. -0.01 min
 Lab File: VL032951.D
 Acq: 8 Dec 2018 2:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion:101 Resp: 1600583
 Ion Ratio Lower Upper
 101 100
 103 64.2 52.7 79.1

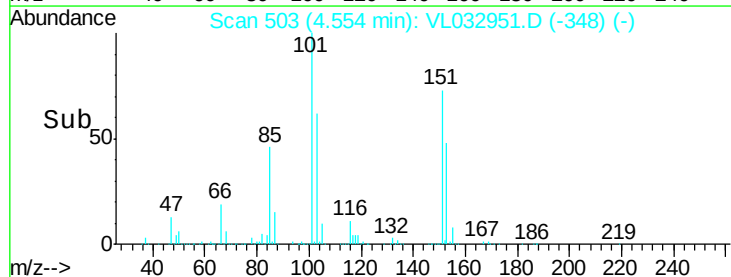
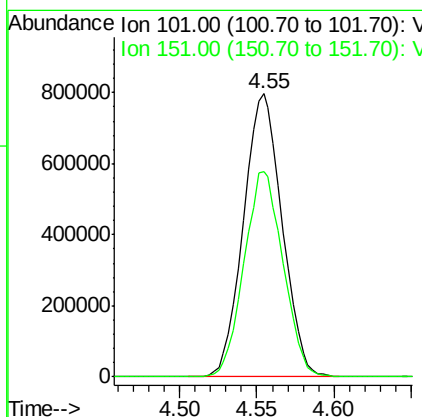
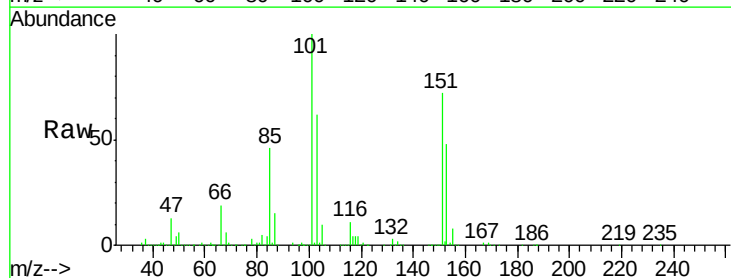
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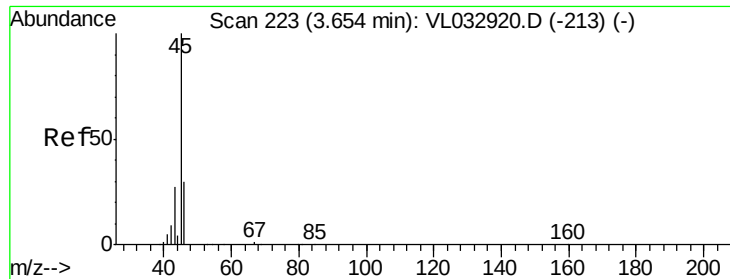
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.726 ppbv
 RT: 4.55 min Scan# 503
 Delta R.T. -0.00 min
 Lab File: VL032951.D
 Acq: 8 Dec 2018 2:24

Tgt Ion:101 Resp: 1384607
 Ion Ratio Lower Upper
 101 100
 151 73.5 59.3 88.9





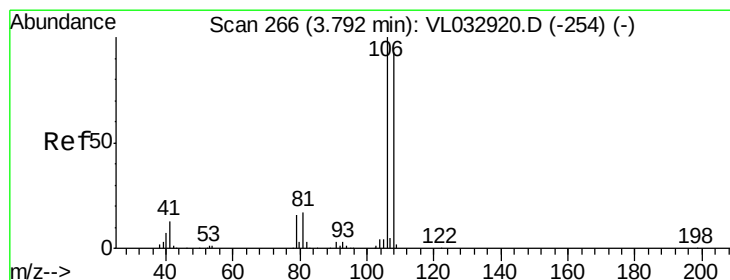
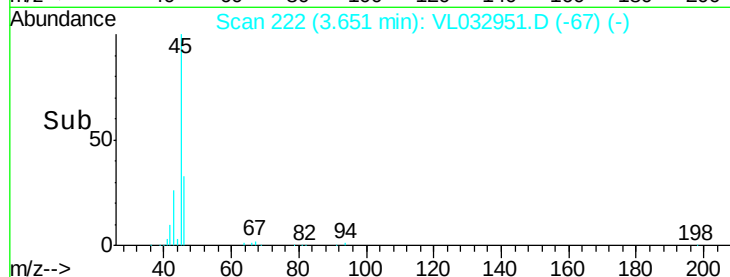
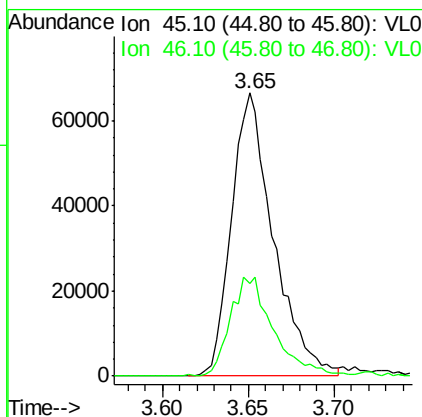
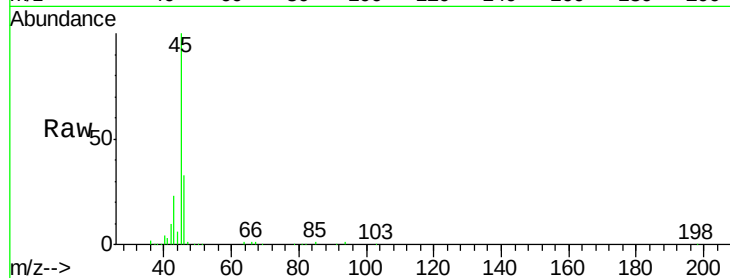
#13
Ethanol
Concen: 7.399 ppbv
RT: 3.65 min Scan# 222
Delta R.T. -0.00 min
Lab File: VL032951.D
Acq: 8 Dec 2018 2:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion: 45 Resp: 112810
Ion Ratio Lower Upper
45 100
46 36.1 13.8 55.4

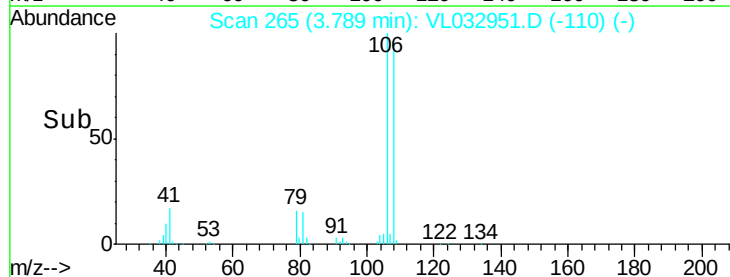
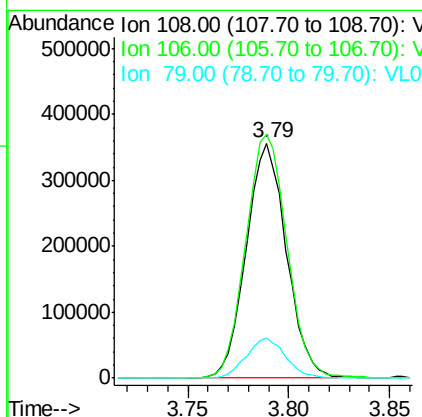
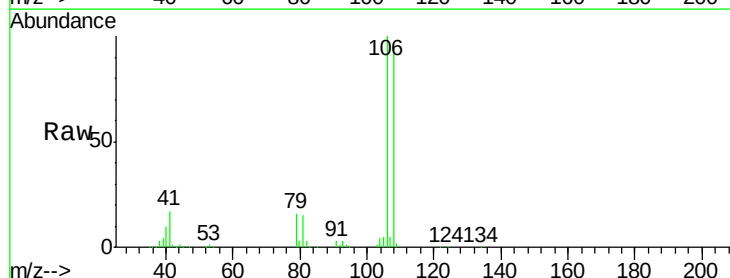
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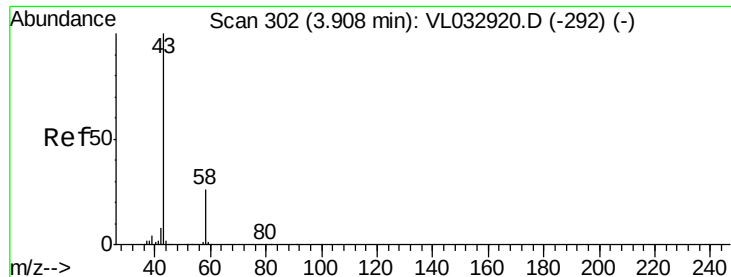
MMDadoda
12/11/2018 10:09:51 AM



#14
Bromoethene
Concen: 9.444 ppbv
RT: 3.79 min Scan# 265
Delta R.T. -0.00 min
Lab File: VL032951.D
Acq: 8 Dec 2018 2:24

Tgt Ion: 108 Resp: 497531
Ion Ratio Lower Upper
108 100
106 107.2 85.4 128.2
79 17.1 14.6 21.8





#15

Acetone

Concen: 8.101 ppbv

RT: 3.90 min Scan# 300

Delta R.T. -0.01 min

Lab File: VL032951.D

Acq: 8 Dec 2018 2:24

Tgt Ion: 43 Resp: 1028225

Ion Ratio Lower Upper

43 100

58 26.8 20.6 30.8

Instrument :

MSVOA_L

ClientSampleId :

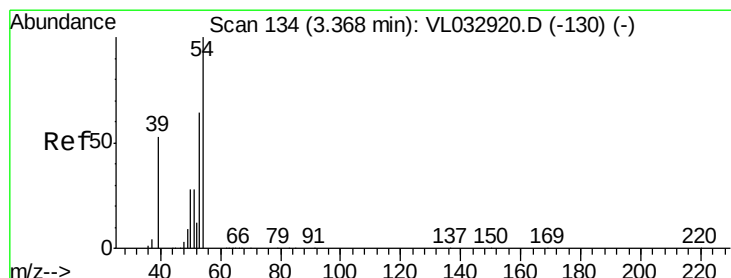
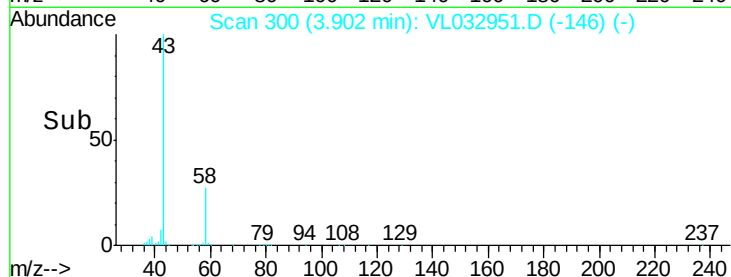
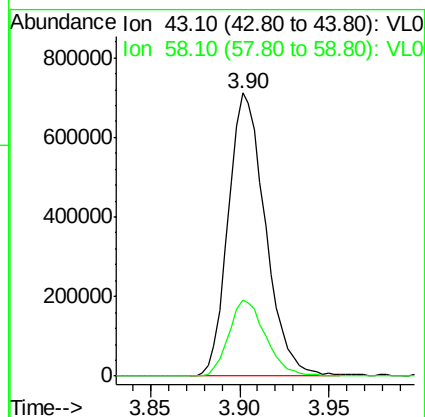
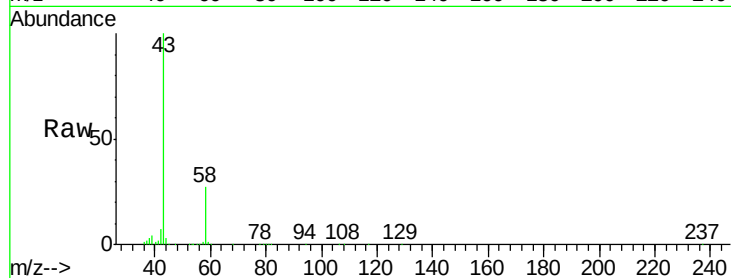
VSTDCCC010EC

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#16

1,3-Butadiene

Concen: 9.960 ppbv

RT: 3.36 min Scan# 132

Delta R.T. -0.01 min

Lab File: VL032951.D

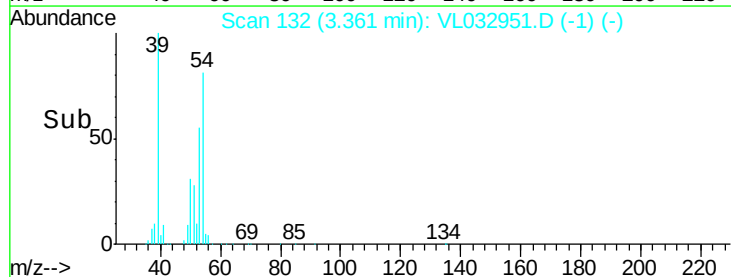
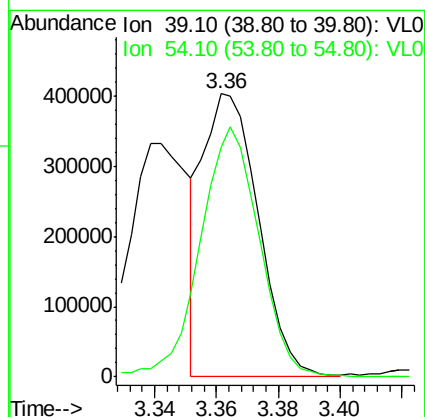
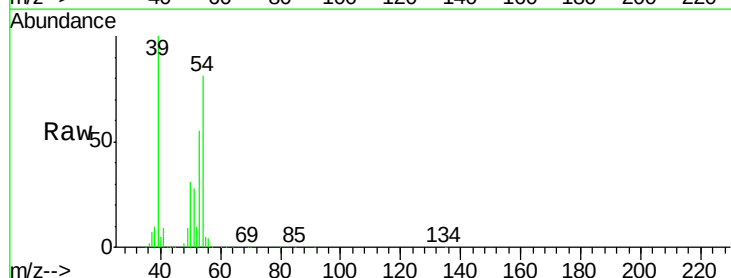
Acq: 8 Dec 2018 2:24

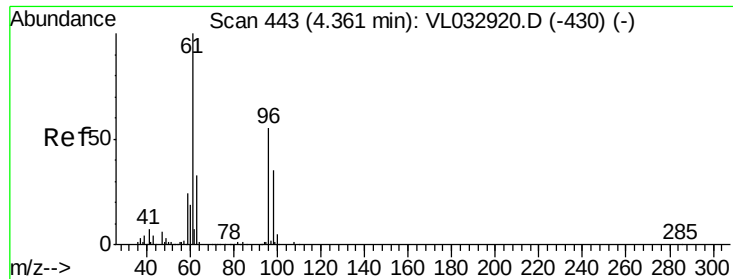
Tgt Ion: 39 Resp: 501508

Ion Ratio Lower Upper

39 100

54 94.7 72.7 109.1





#17

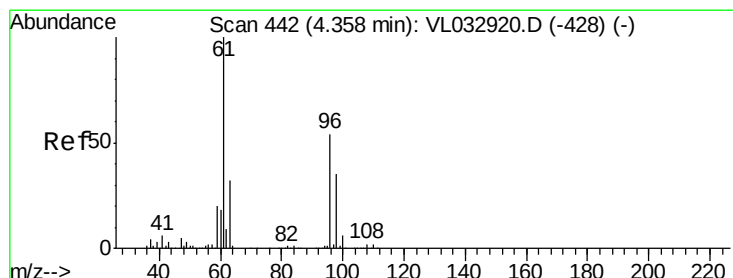
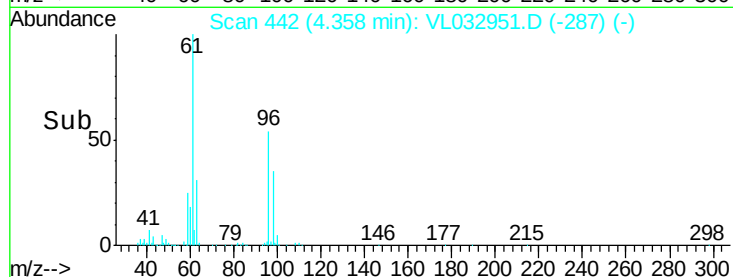
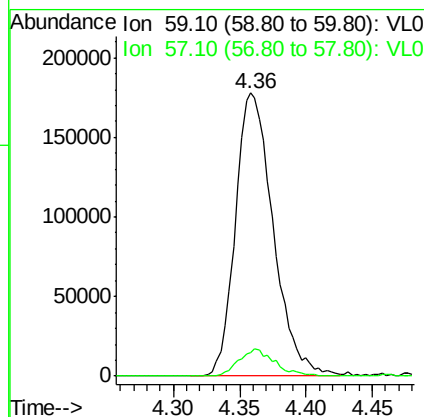
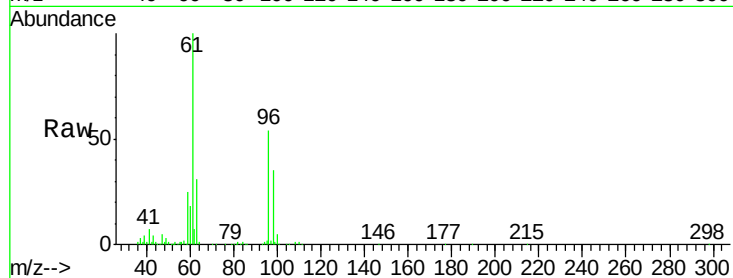
tert-Butyl alcohol
Concen: 10.892 ppbv
RT: 4.36 min Scan# 442
Delta R.T. -0.00 min
Lab File: VL032951.D
Acq: 8 Dec 2018 2:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion: 59 Resp: 351968
Ion Ratio Lower Upper
59 100
57 9.2 0.6 1.0#

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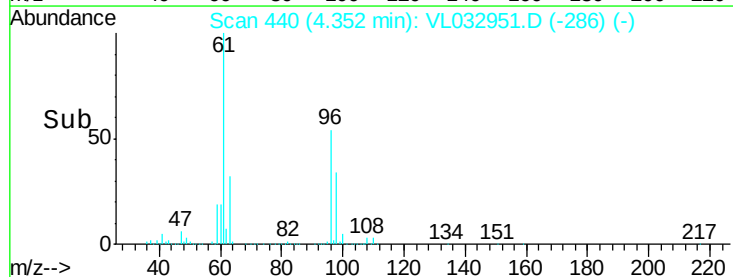
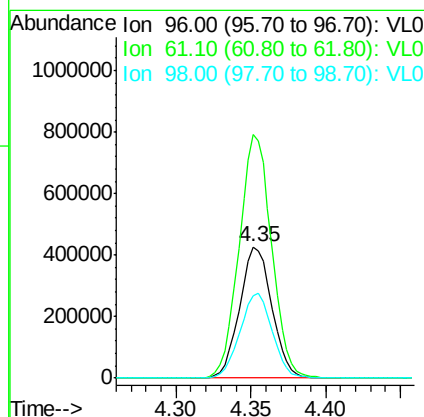
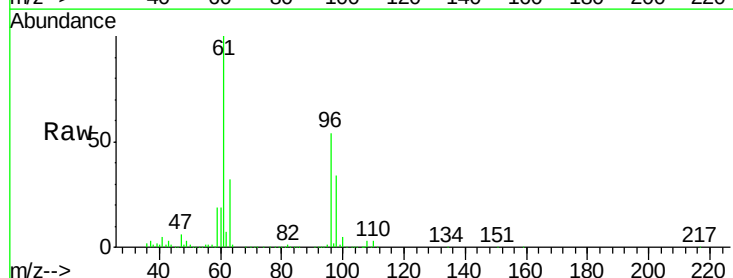
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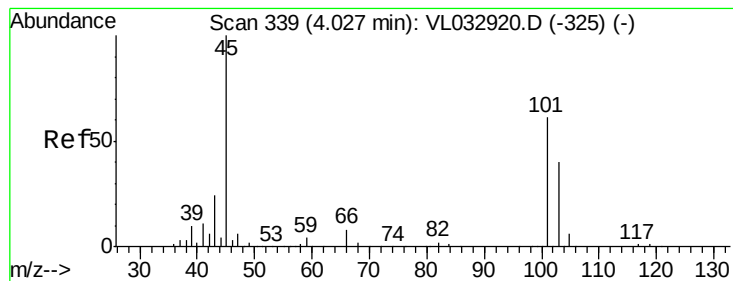


#18

1,1-Dichloroethene
Concen: 10.355 ppbv
RT: 4.35 min Scan# 440
Delta R.T. -0.01 min
Lab File: VL032951.D
Acq: 8 Dec 2018 2:24

Tgt Ion: 96 Resp: 643490
Ion Ratio Lower Upper
96 100
61 185.6 147.0 220.4
98 62.6 50.7 76.1





#19

Isopropyl Alcohol

Concen: 9.461 ppbv

RT: 4.02 min Scan# 338

Delta R.T. -0.00 min

Lab File: VL032951.D

Acq: 8 Dec 2018 2:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 45 Resp: 754080

Ion Ratio Lower Upper

45 100

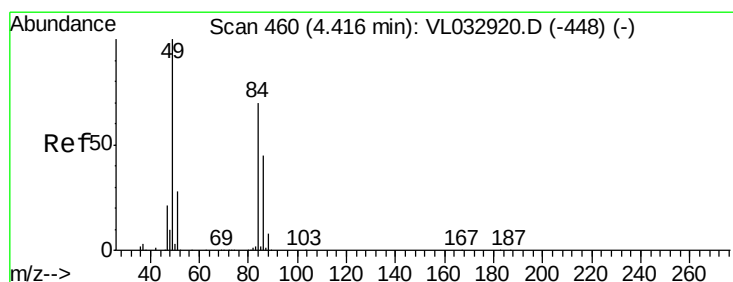
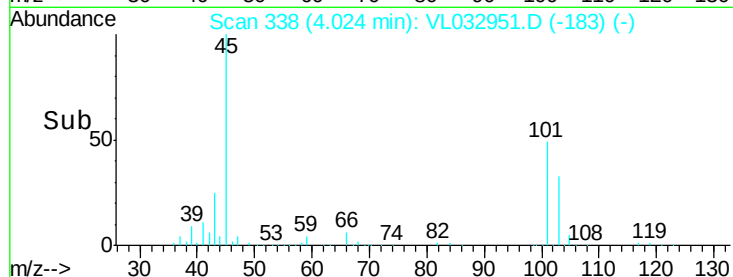
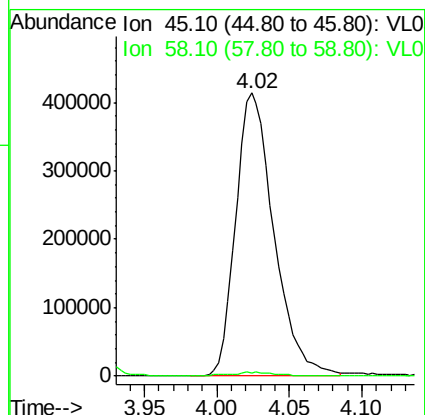
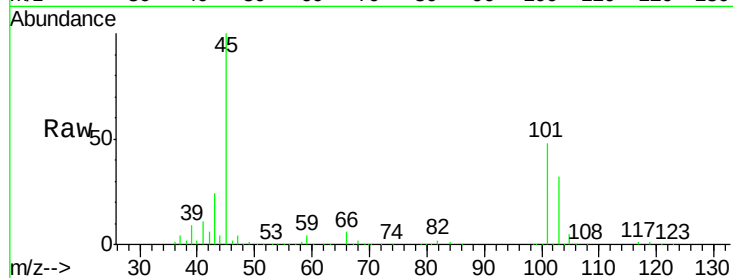
58 1.9 1.4 2.2

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#20

Methylene Chloride

Concen: 8.888 ppbv

RT: 4.41 min Scan# 459

Delta R.T. -0.00 min

Lab File: VL032951.D

Acq: 8 Dec 2018 2:24

Tgt Ion: 84 Resp: 551314

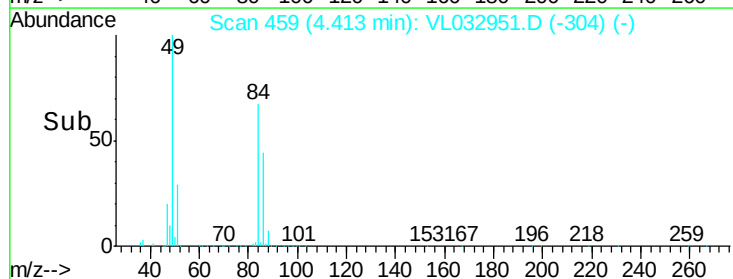
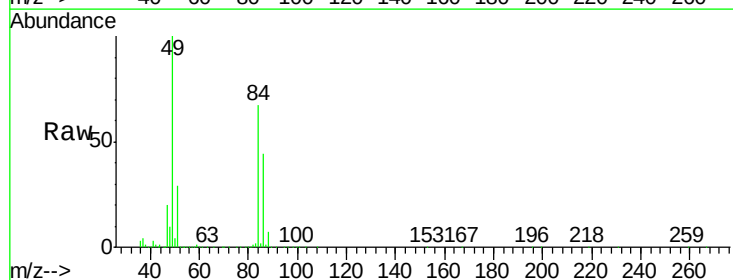
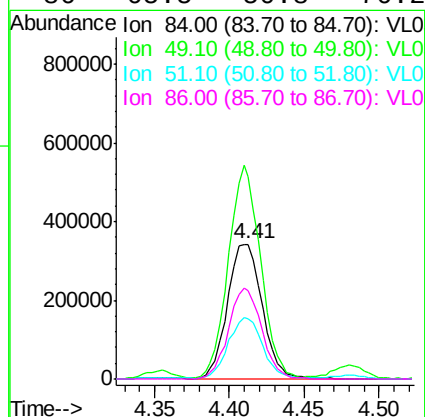
Ion Ratio Lower Upper

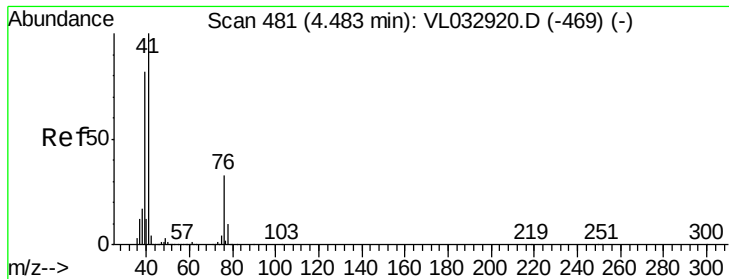
84 100

49 149.3 113.8 170.8

51 43.7 31.8 47.8

86 65.5 50.8 76.2





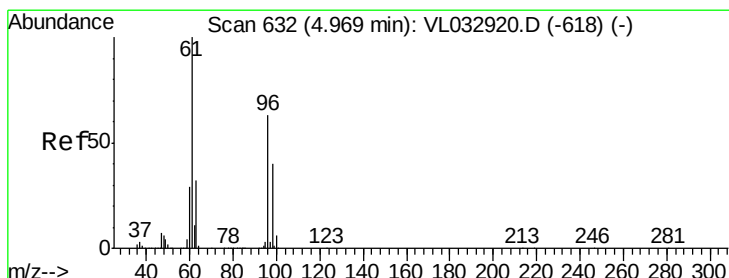
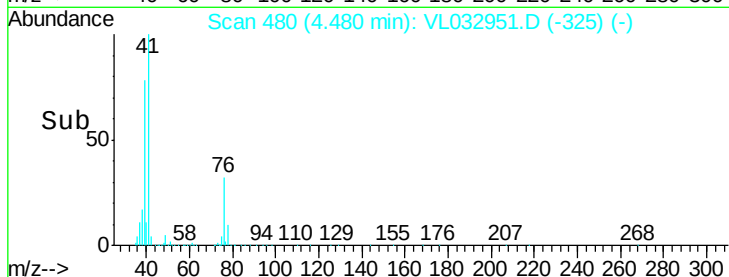
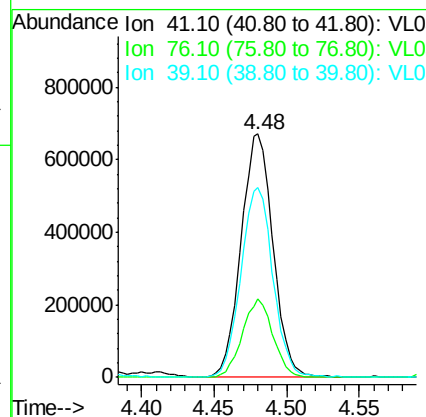
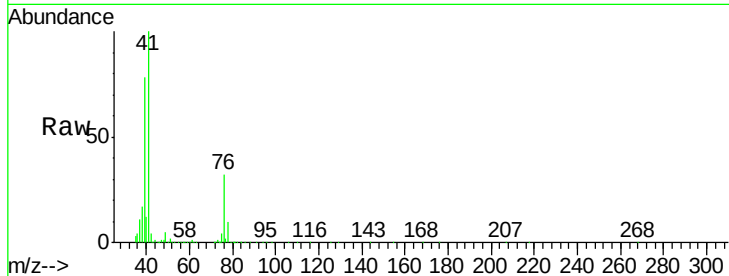
#21
 Allyl Chloride
 Concen: 9.913 ppbv
 RT: 4.48 min Scan# 480
 Delta R.T. -0.00 min
 Lab File: VL032951.D
 Acq: 8 Dec 2018 2:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion: 41 Resp: 1025331
 Ion Ratio Lower Upper
 41 100
 76 31.0 25.2 37.8
 39 78.3 65.2 97.8

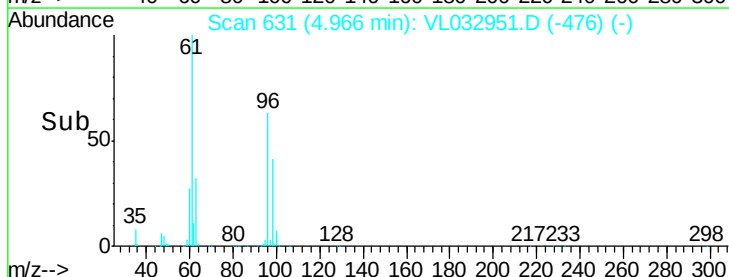
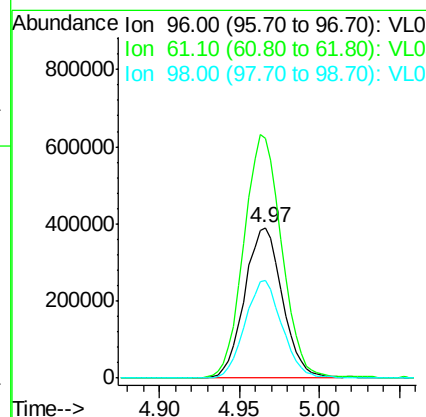
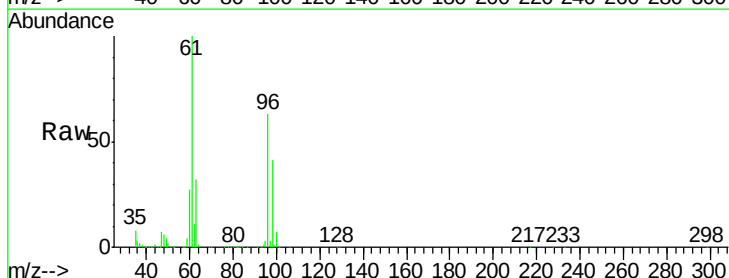
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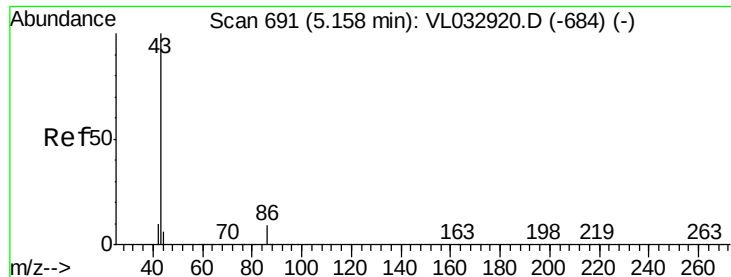
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#22
 trans-1,2-Dichloroethene
 Concen: 8.140 ppbv
 RT: 4.97 min Scan# 631
 Delta R.T. -0.00 min
 Lab File: VL032951.D
 Acq: 8 Dec 2018 2:24

Tgt Ion: 96 Resp: 627753
 Ion Ratio Lower Upper
 96 100
 61 159.6 127.1 190.7
 98 64.8 51.3 76.9





#23

Vinyl Acetate

Concen: 10.289 ppbv

RT: 5.16 min Scan# 690

Delta R.T. -0.00 min

Lab File: VL032951.D

Acq: 8 Dec 2018 2:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 43 Resp: 2210892

Ion Ratio Lower Upper

43 100

86 8.3 6.6 9.8

42 10.0 8.3 12.5

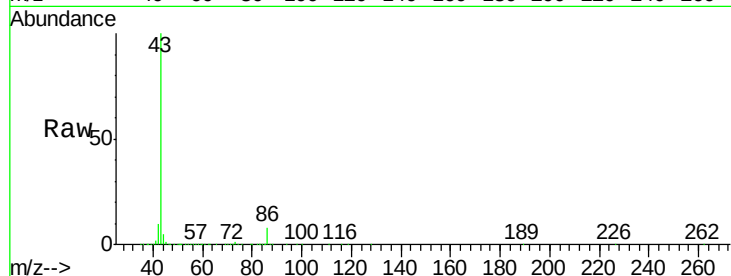
44 5.1 4.2 6.4

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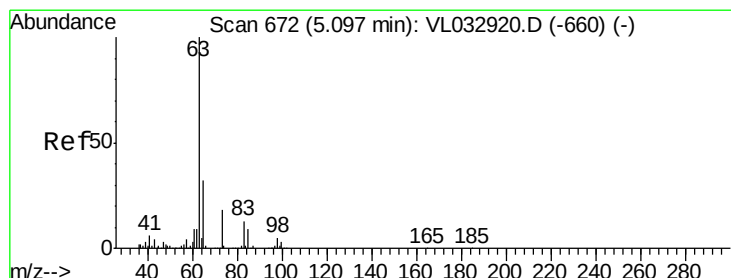
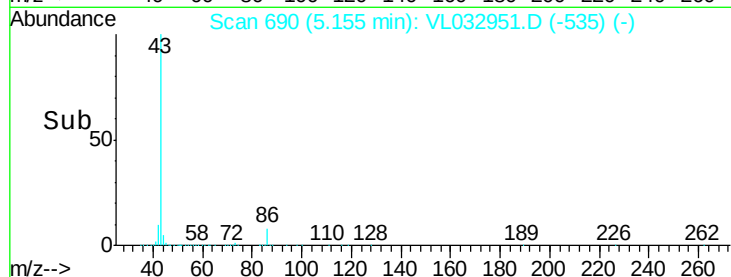
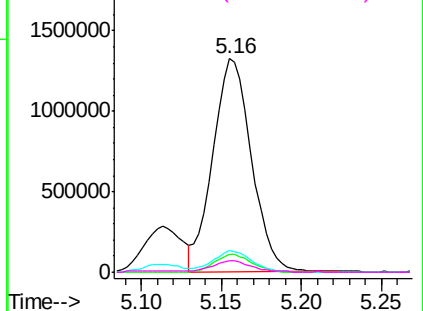


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 8.746 ppbv

RT: 5.09 min Scan# 671

Delta R.T. -0.00 min

Lab File: VL032951.D

Acq: 8 Dec 2018 2:24

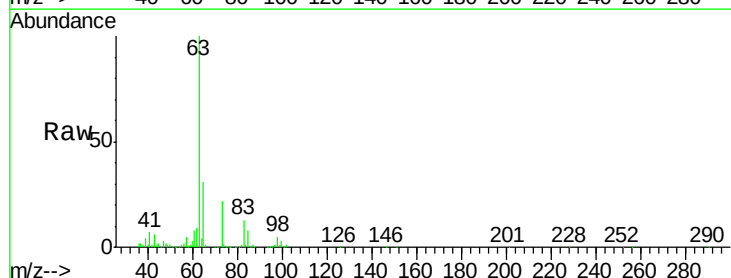
Tgt Ion: 63 Resp: 1634251

Ion Ratio Lower Upper

63 100

98 4.8 2.5 7.5

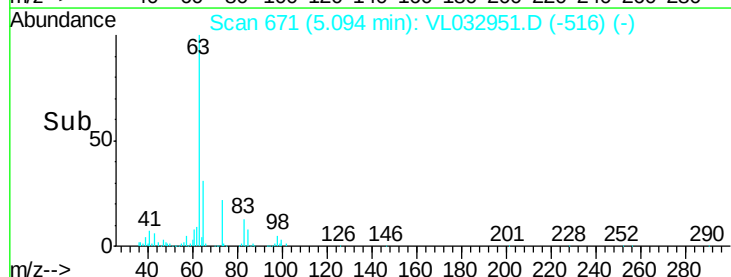
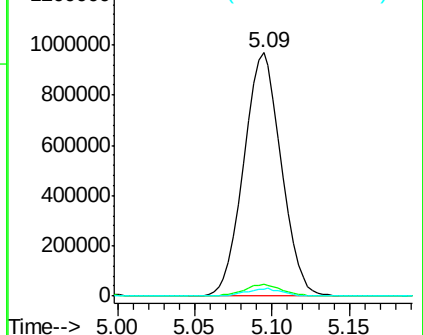
100 2.9 1.4 4.2

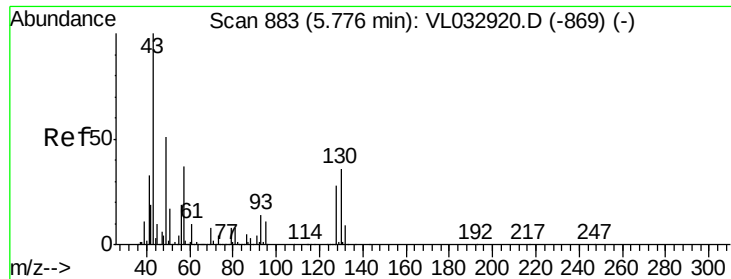


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





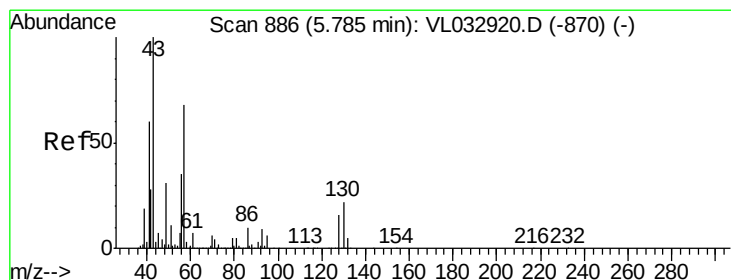
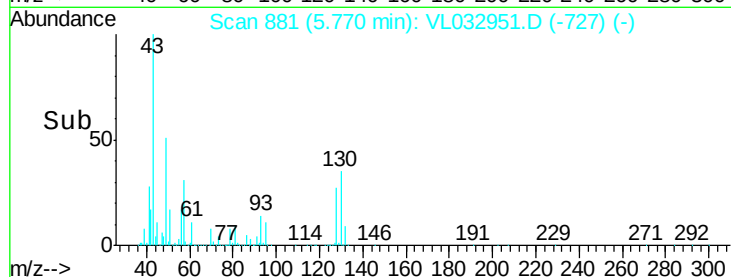
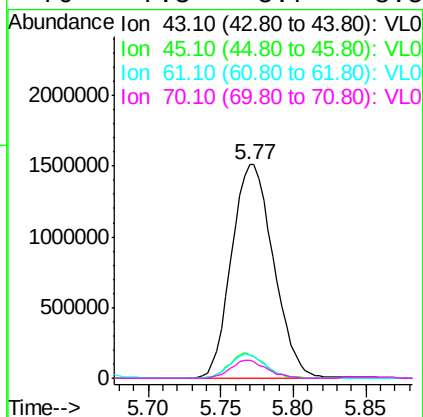
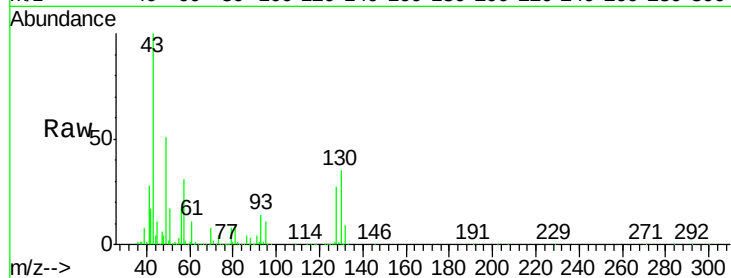
#25
Ethyl Acetate
Concen: 10.125 ppbv
RT: 5.77 min Scan# 881
Delta R.T. -0.01 min
Lab File: VL032951.D
Acq: 8 Dec 2018 2:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion	Ratio	Lower	Upper
43	100		
45	10.0	7.8	11.6
61	9.6	7.4	11.2
70	7.3	5.7	8.5

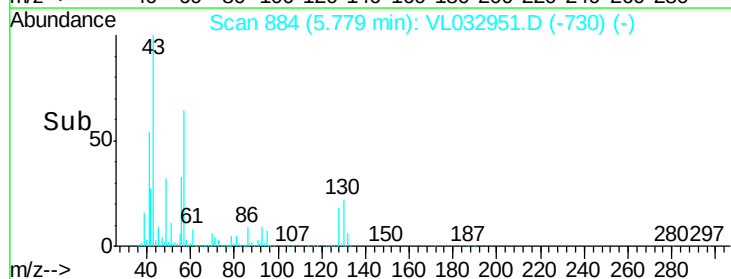
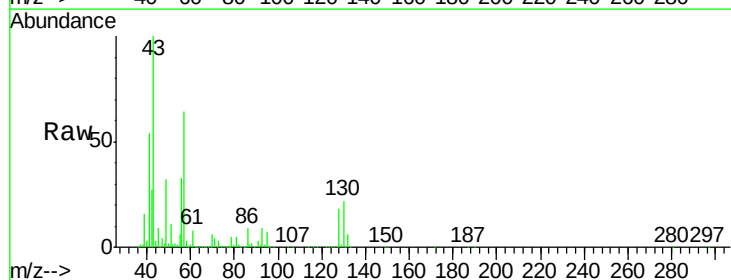
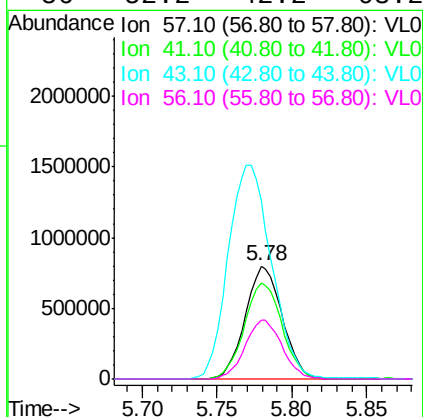
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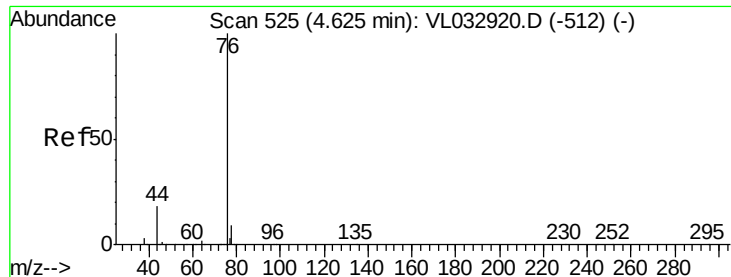
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#26
Hexane
Concen: 9.926 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.01 min
Lab File: VL032951.D
Acq: 8 Dec 2018 2:24

Tgt Ion	Ratio	Lower	Upper
57	100		
41	87.3	72.2	108.2
43	222.0	171.9	257.9
56	52.2	42.2	63.2





#27

Carbon Disulfide

Concen: 10.088 ppbv

RT: 4.62 min Scan# 524

Delta R.T. -0.00 min

Lab File: VL032951.D

Acq: 8 Dec 2018 2:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 76 Resp: 1746010

Ion Ratio Lower Upper

76 100

44 18.1 14.7 22.1

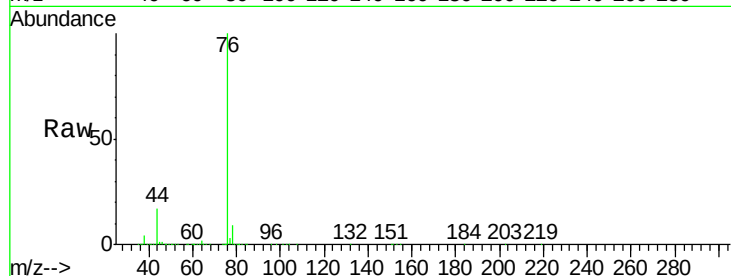
78 9.3 7.4 11.2

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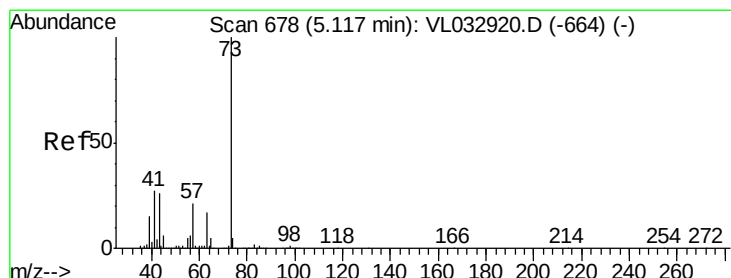
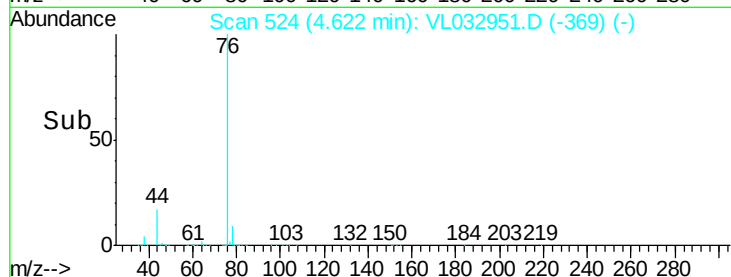
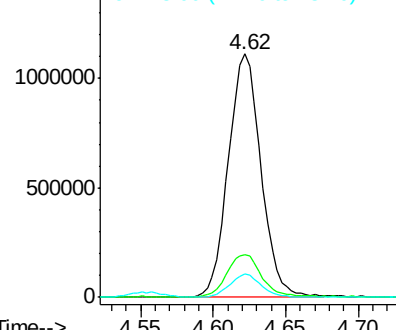
12/11/2018 10:09:51 AM



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 9.954 ppbv

RT: 5.11 min Scan# 677

Delta R.T. -0.00 min

Lab File: VL032951.D

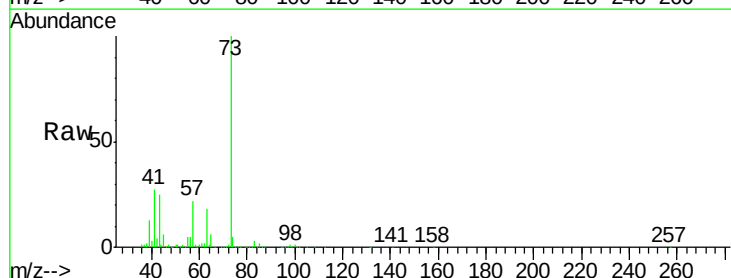
Acq: 8 Dec 2018 2:24

Tgt Ion: 73 Resp: 2069251

Ion Ratio Lower Upper

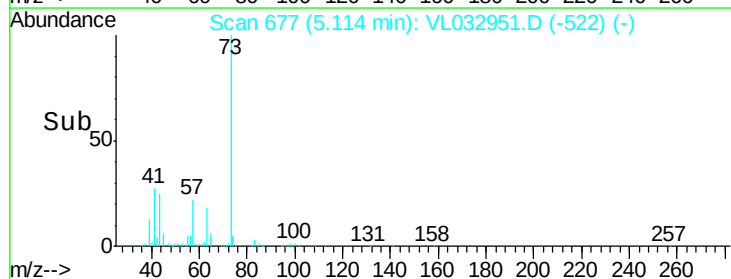
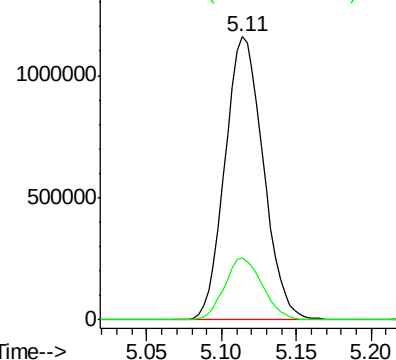
73 100

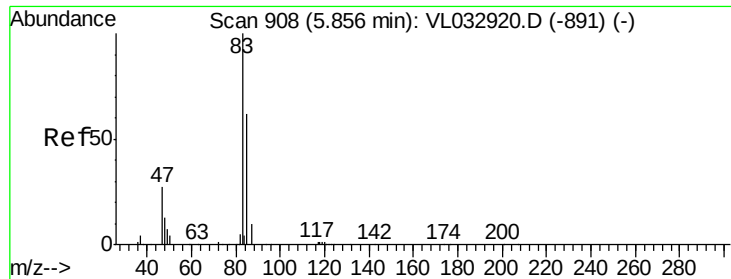
57 22.0 17.4 26.0



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





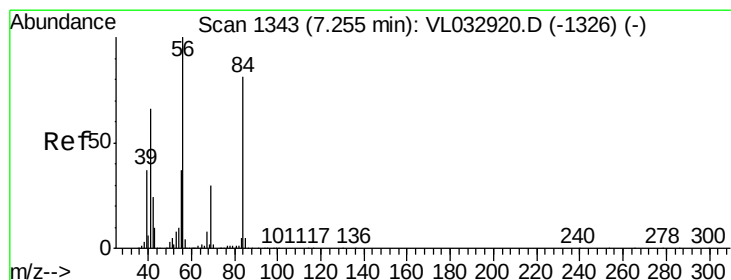
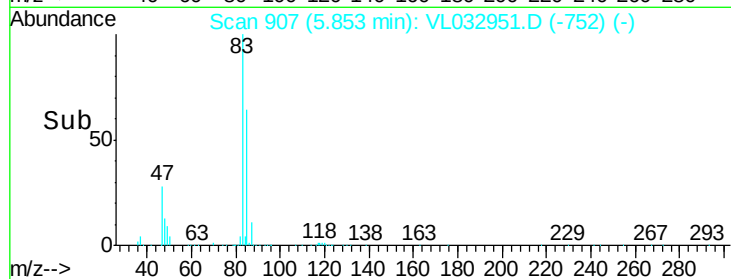
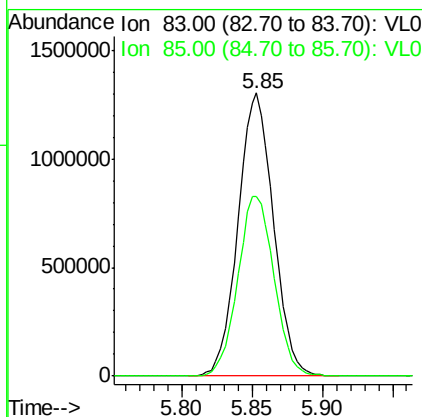
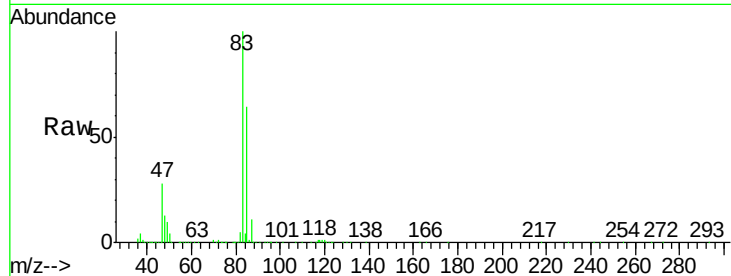
#29
Chloroform
Concen: 9.279 ppbv
RT: 5.85 min Scan# 907
Delta R.T. -0.00 min
Lab File: VL032951.D
Acq: 8 Dec 2018 2:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion: 83 Resp: 2291640
Ion Ratio Lower Upper
83 100
85 63.6 49.8 74.8

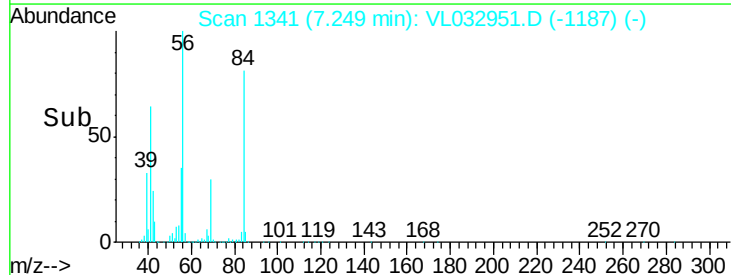
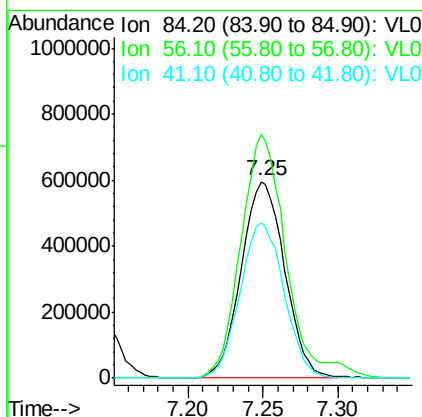
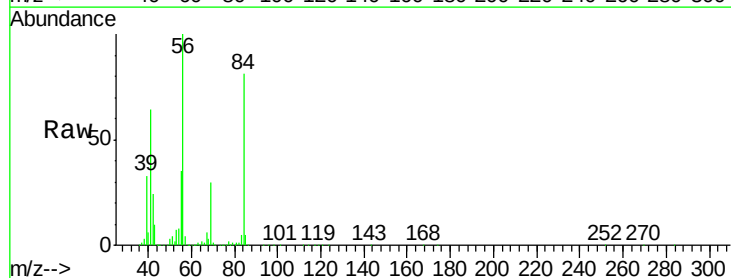
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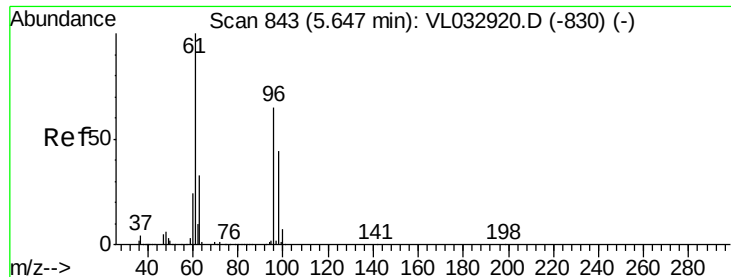
MMDadoda
12/11/2018 10:09:51 AM



#30
Cyclohexane
Concen: 10.498 ppbv
RT: 7.25 min Scan# 1341
Delta R.T. -0.01 min
Lab File: VL032951.D
Acq: 8 Dec 2018 2:24

Tgt Ion: 84 Resp: 1204405
Ion Ratio Lower Upper
84 100
56 129.4 102.5 153.7
41 80.5 64.1 96.1





#31

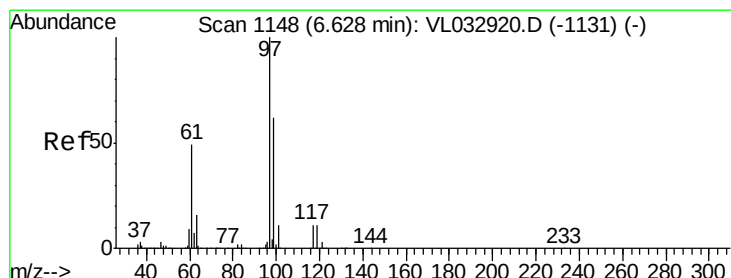
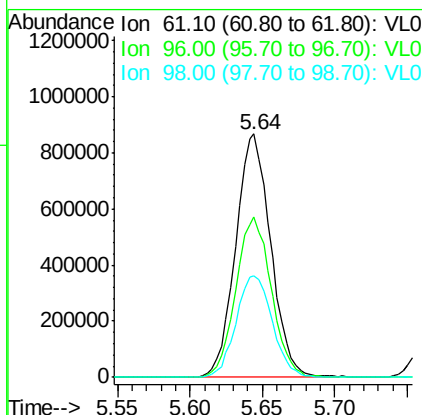
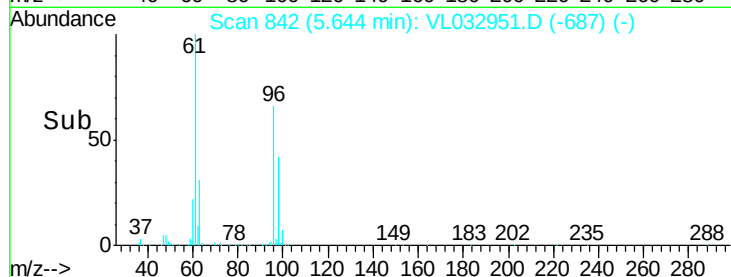
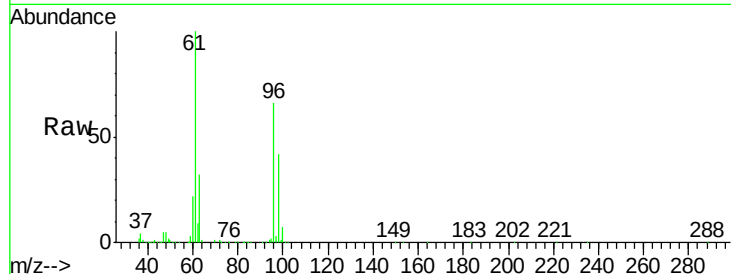
cis-1,2-Dichloroethene
 Concen: 11.449 ppbv
 RT: 5.64 min Scan# 842
 Delta R.T. -0.00 min
 Lab File: VL032951.D
 Acq: 8 Dec 2018 2:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion: 61 Resp: 1454237
 Ion Ratio Lower Upper
 61 100
 96 66.0 51.9 77.9
 98 41.8 35.0 52.4

Manual Integrations
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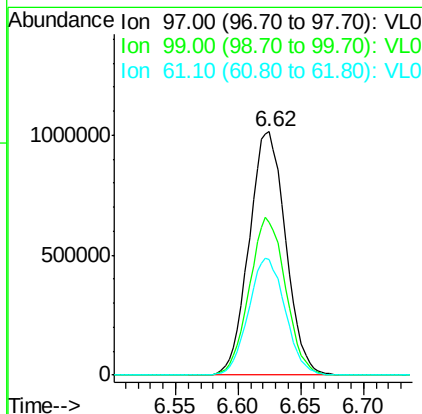
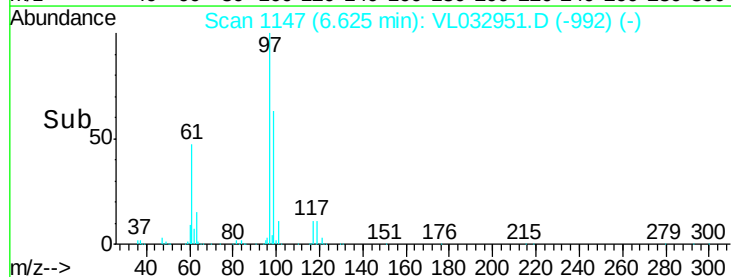
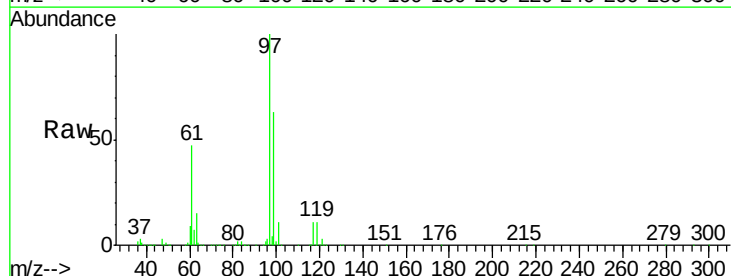
MMDadoda
 12/11/2018 10:09:51 AM

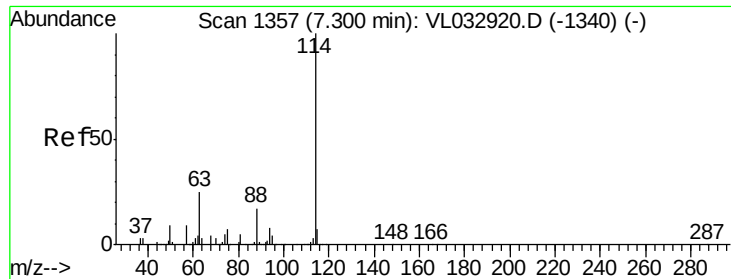


#32

1,1,1-Trichloroethane
 Concen: 7.879 ppbv
 RT: 6.62 min Scan# 1147
 Delta R.T. -0.00 min
 Lab File: VL032951.D
 Acq: 8 Dec 2018 2:24

Tgt Ion: 97 Resp: 2058986
 Ion Ratio Lower Upper
 97 100
 99 64.2 51.1 76.7
 61 48.3 39.3 58.9





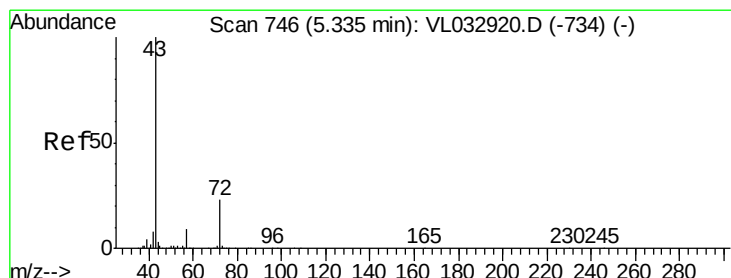
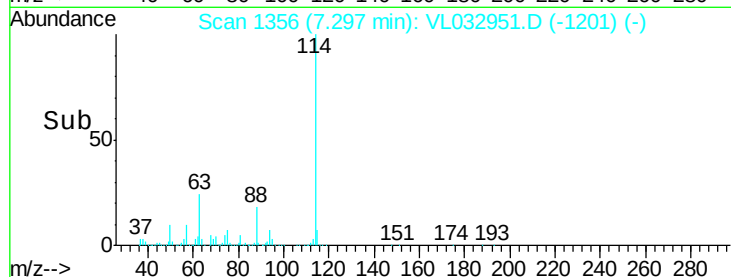
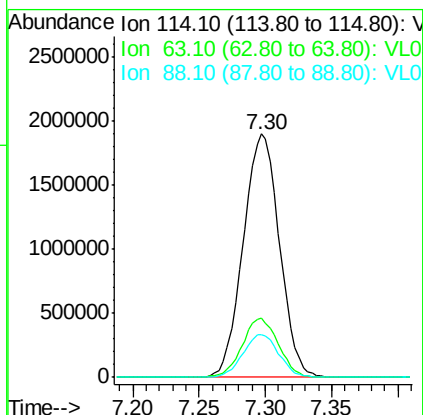
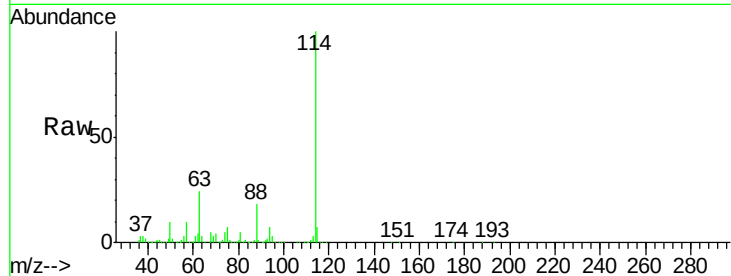
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1356
 Delta R.T. -0.00 min
 Lab File: VL032951.D
 Acq: 8 Dec 2018 2:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion: 114 Resp: 3612441
 Ion Ratio Lower Upper
 114 100
 63 24.4 20.1 30.1
 88 17.4 14.2 21.4

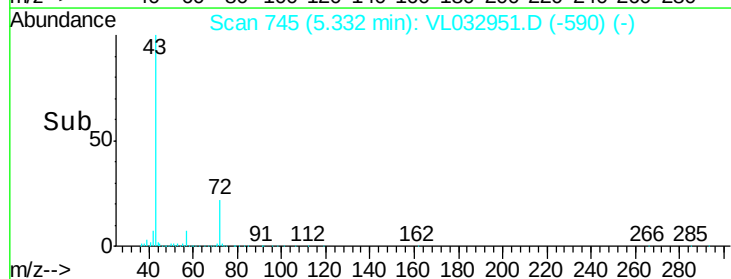
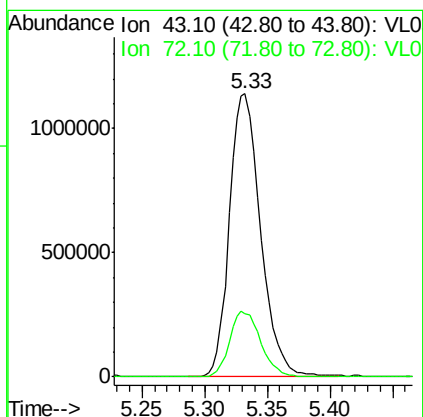
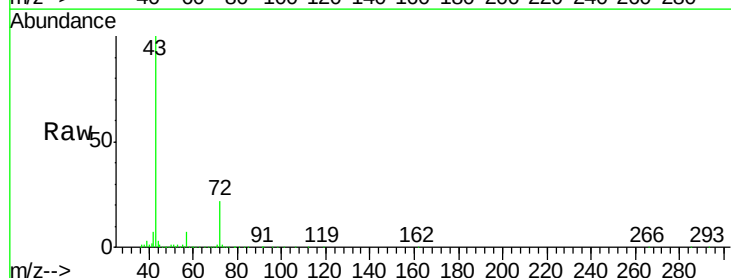
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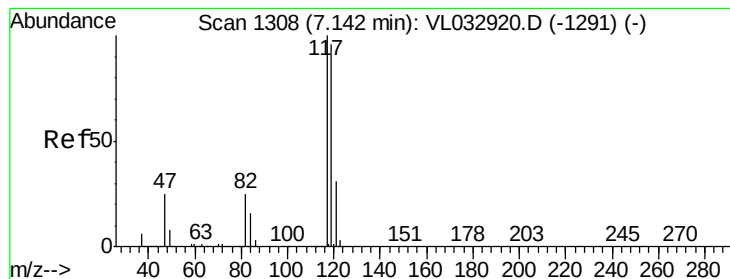
MMDadoda
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#34
 2-Butanone
 Concen: 12.451 ppbv
 RT: 5.33 min Scan# 745
 Delta R.T. -0.00 min
 Lab File: VL032951.D
 Acq: 8 Dec 2018 2:24

Tgt Ion: 43 Resp: 1959167
 Ion Ratio Lower Upper
 43 100
 72 23.4 18.8 28.2





#35

Carbon Tetrachloride

Concen: 8.754 ppbv

RT: 7.14 min Scan# 1306

Delta R.T. -0.01 min

Lab File: VL032951.D

Acq: 8 Dec 2018 2:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion:117 Resp: 2485736

Ion Ratio Lower Upper

117 100

119 93.6 76.5 114.7

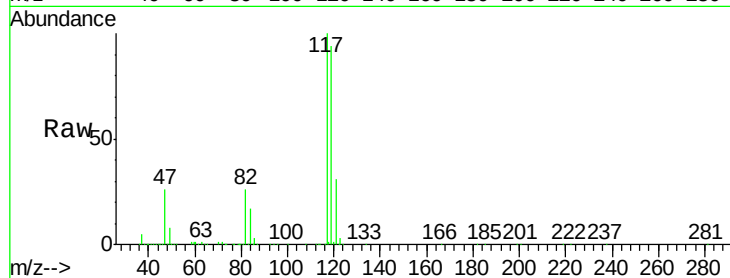
121 31.0 24.5 36.7

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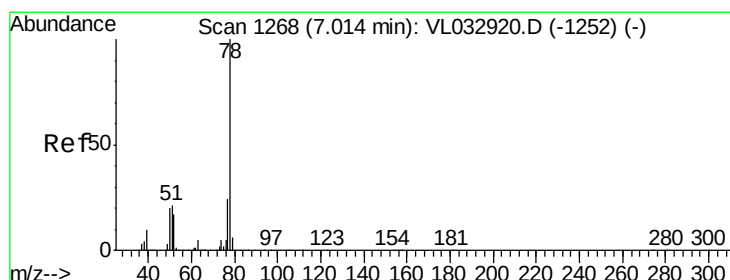
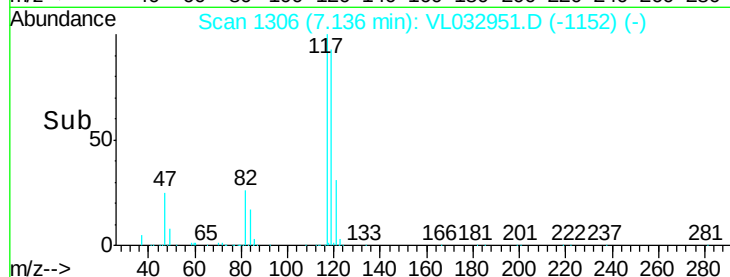
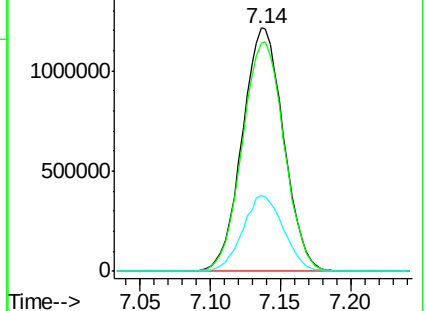
12/11/2018 10:09:51 AM



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: 10.774 ppbv

RT: 7.01 min Scan# 1266

Delta R.T. -0.01 min

Lab File: VL032951.D

Acq: 8 Dec 2018 2:24

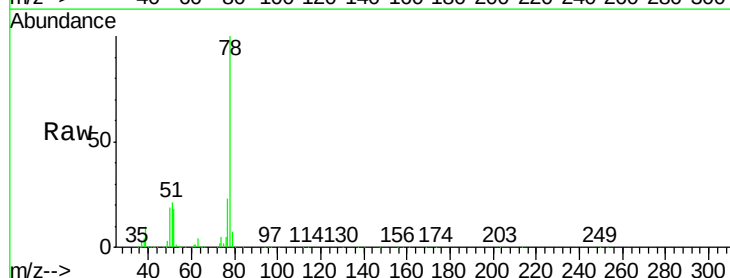
Tgt Ion: 78 Resp: 2862539

Ion Ratio Lower Upper

78 100

77 23.4 18.9 28.3

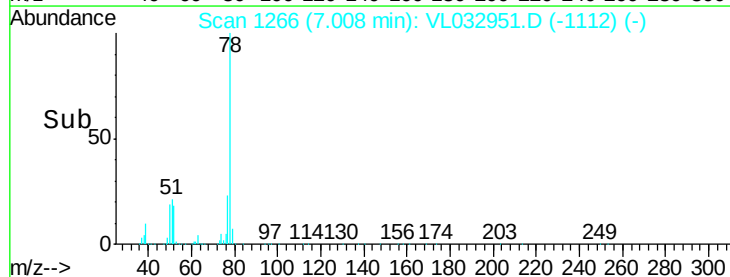
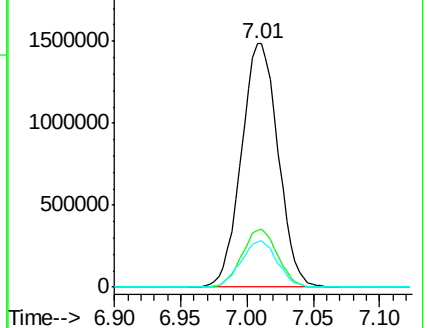
50 18.6 16.1 24.1

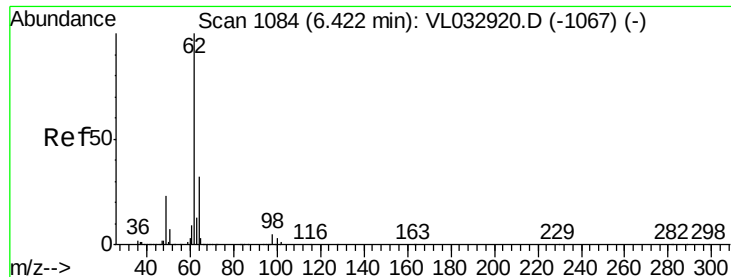


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





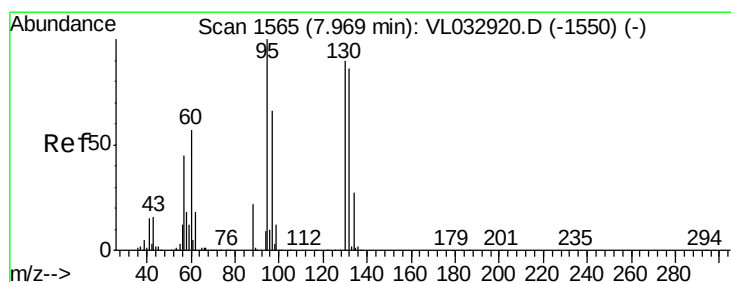
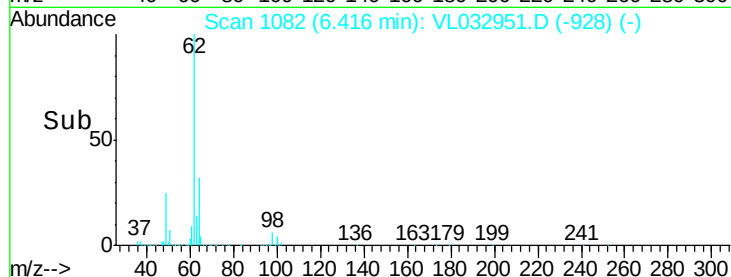
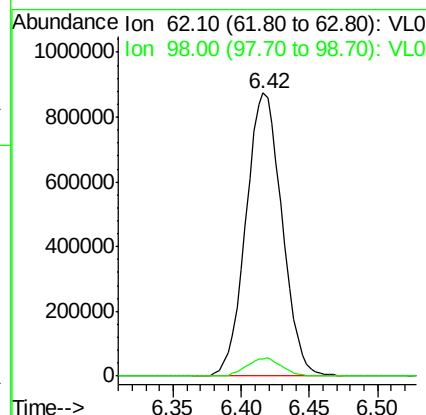
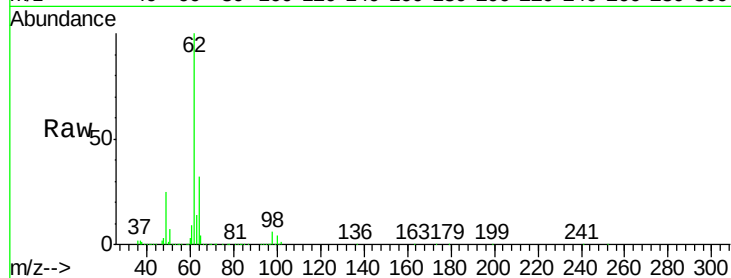
#37
 1,2-Dichloroethane
 Concen: 8.889 ppbv
 RT: 6.42 min Scan# 1082
 Delta R.T. -0.01 min
 Lab File: VL032951.D
 Acq: 8 Dec 2018 2:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion: 62 Resp: 1607945
 Ion Ratio Lower Upper
 62 100
 98 6.2 4.3 6.5

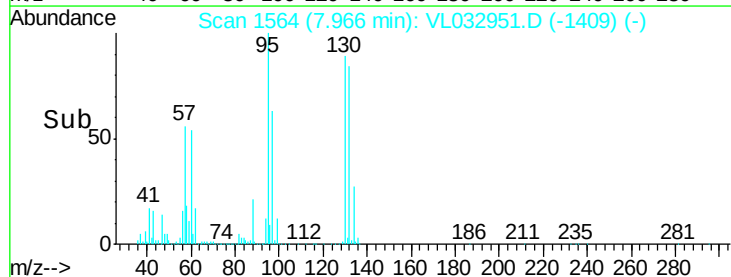
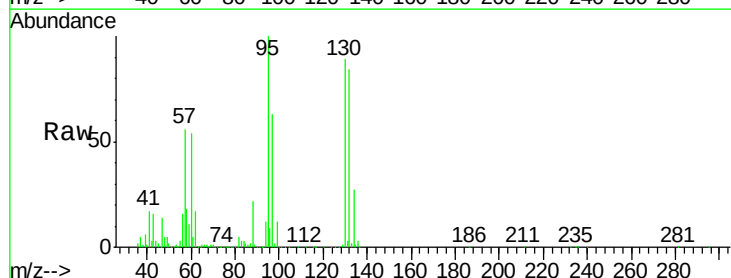
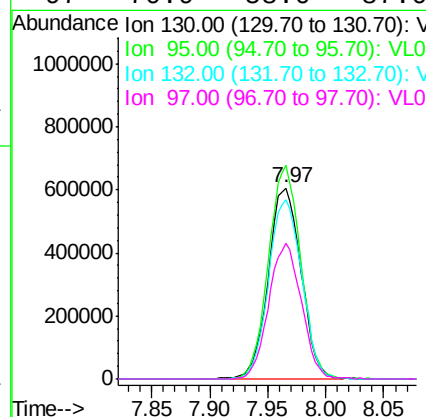
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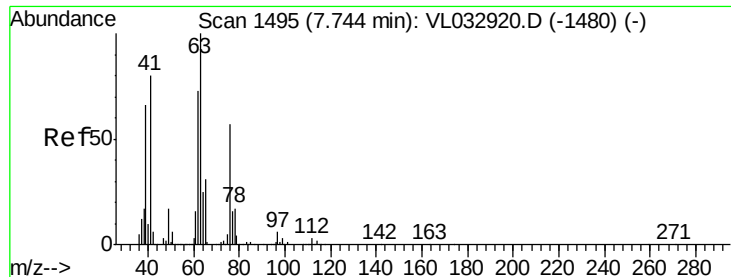
MMDadoda
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#38
 Trichloroethene
 Concen: 10.770 ppbv
 RT: 7.97 min Scan# 1564
 Delta R.T. -0.00 min
 Lab File: VL032951.D
 Acq: 8 Dec 2018 2:24

Tgt Ion: 130 Resp: 1190895
 Ion Ratio Lower Upper
 130 100
 95 111.7 88.6 132.8
 132 93.8 76.1 114.1
 97 70.9 58.0 87.0





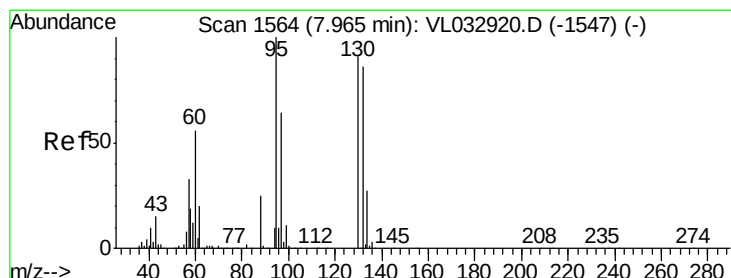
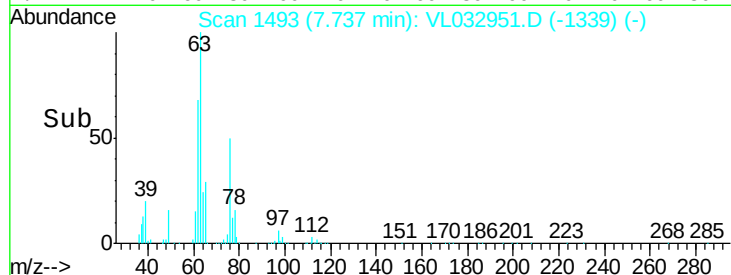
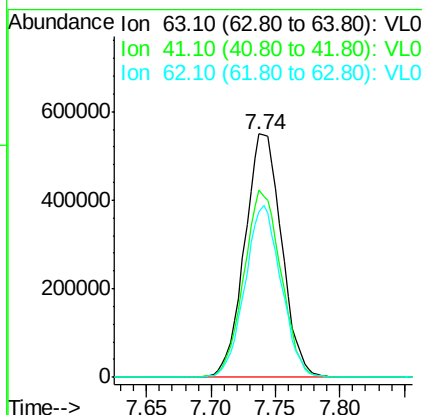
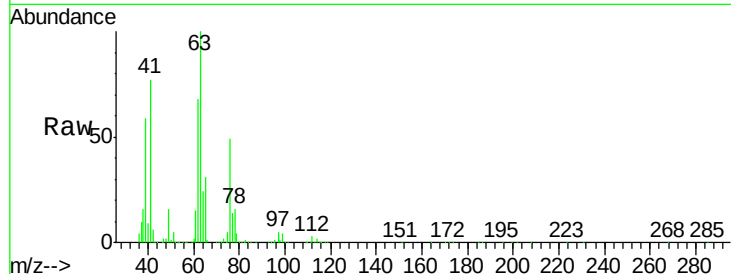
#39
 1,2-Dichloropropane
 Concen: 10.878 ppbv
 RT: 7.74 min Scan# 1493
 Delta R.T. -0.01 min
 Lab File: VL032951.D
 Acq: 8 Dec 2018 2:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion: 63 Resp: 1096187
 Ion Ratio Lower Upper
 63 100
 41 77.0 63.9 95.9
 62 68.0 58.8 88.2

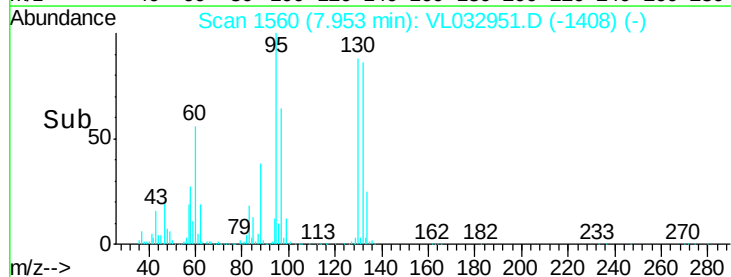
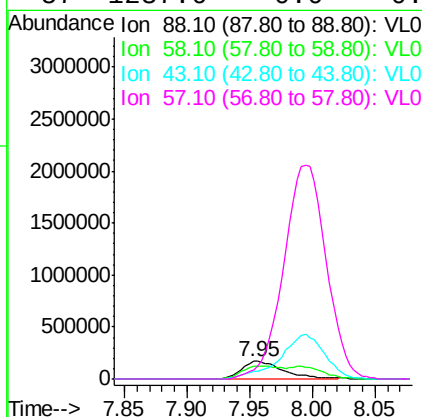
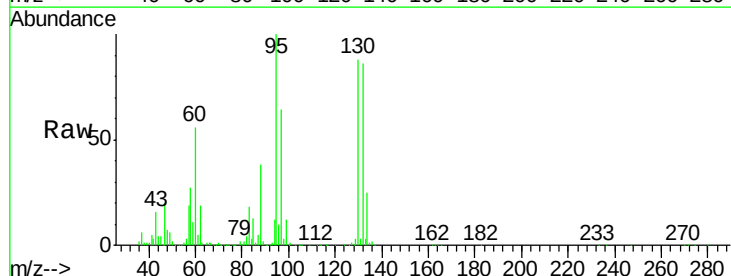
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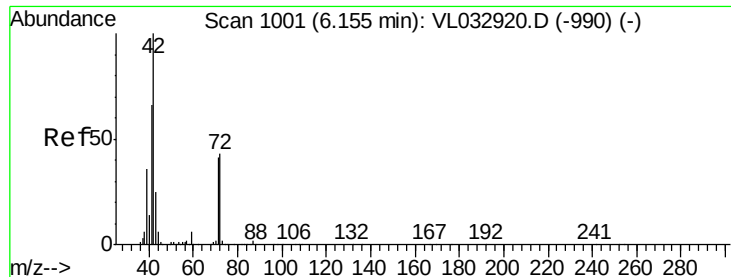
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#40
 1,4-Dioxane
 Concen: 10.620 ppbv
 RT: 7.95 min Scan# 1560
 Delta R.T. -0.01 min
 Lab File: VL032951.D
 Acq: 8 Dec 2018 2:24

Tgt Ion: 88 Resp: 394197
 Ion Ratio Lower Upper
 88 100
 58 128.1 107.4 161.2
 43 270.1 0.0 0.0#
 57 1237.6 0.0 0.0#





#41

Tetrahydrofuran

Concen: 10.815 ppbv

RT: 6.15 min Scan# 999

Delta R.T. -0.01 min

Lab File: VL032951.D

Acq: 8 Dec 2018 2:24

Instrument :

MSVOA_L

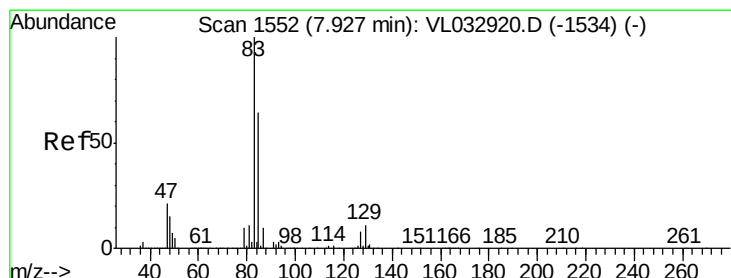
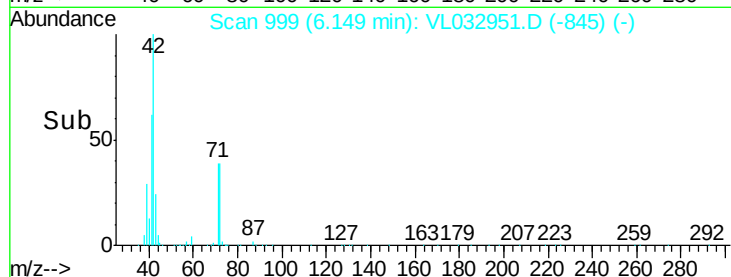
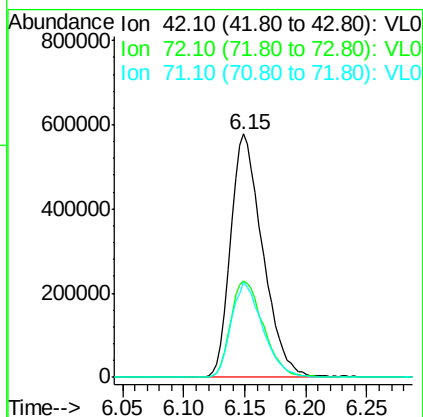
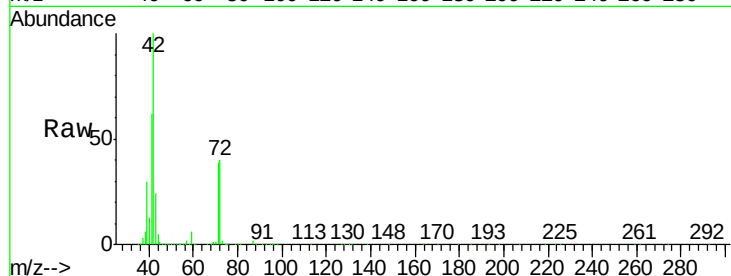
ClientSampleId :

VSTDCCC010EC

Tgt Ion:	42	Resp:	1058366
Ion	Ratio	Lower	Upper
42	100		
72	40.8	32.9	49.3
71	38.3	32.0	48.0

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#42

Bromodichloromethane

Concen: 9.915 ppbv

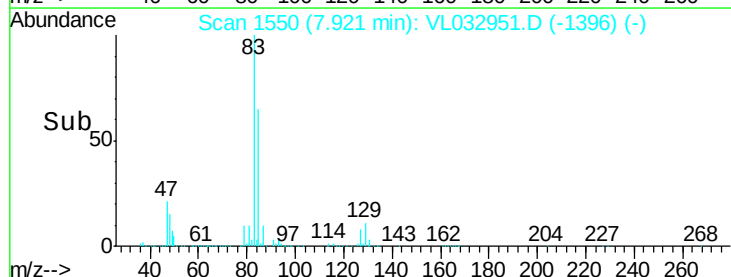
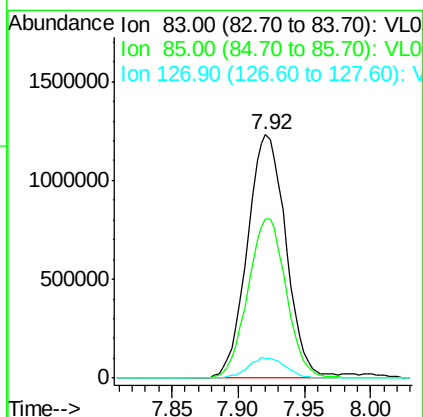
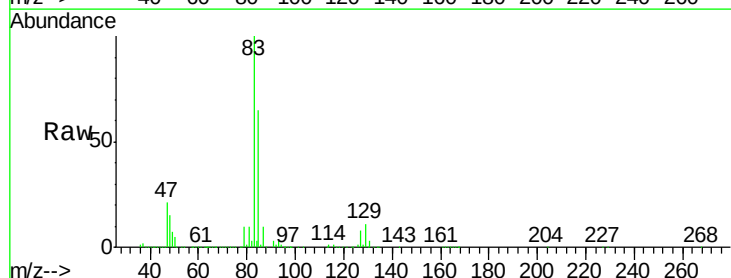
RT: 7.92 min Scan# 1550

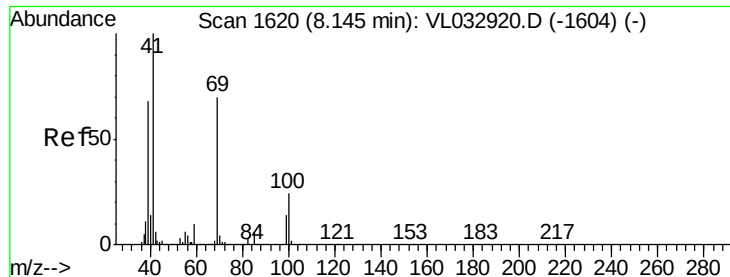
Delta R.T. -0.01 min

Lab File: VL032951.D

Acq: 8 Dec 2018 2:24

Tgt Ion:	83	Resp:	2485061
Ion	Ratio	Lower	Upper
83	100		
85	65.4	50.9	76.3
127	8.2	6.7	10.1





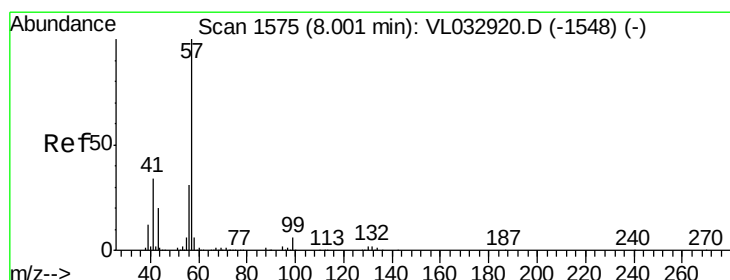
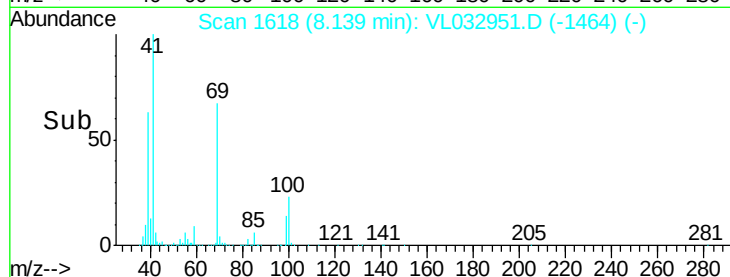
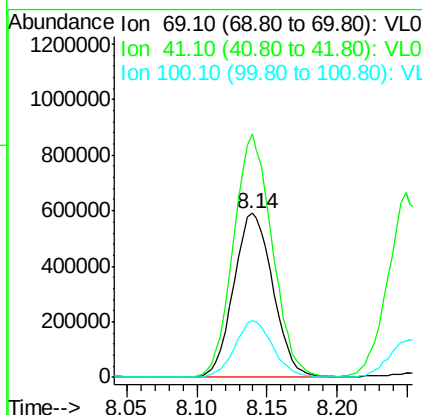
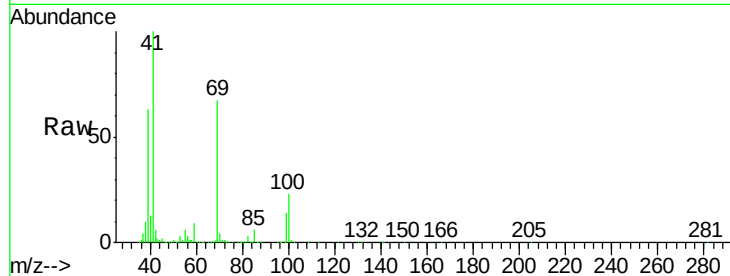
#43
Methyl Methacrylate
Concen: 11.712 ppbv
RT: 8.14 min Scan# 1618
Delta R.T. -0.01 min
Lab File: VL032951.D
Acq: 8 Dec 2018 2:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion: 69 Resp: 1153064
Ion Ratio Lower Upper
69 100
41 146.0 116.6 175.0
100 33.5 26.5 39.7

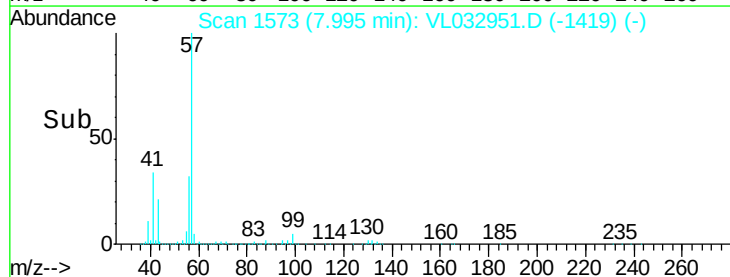
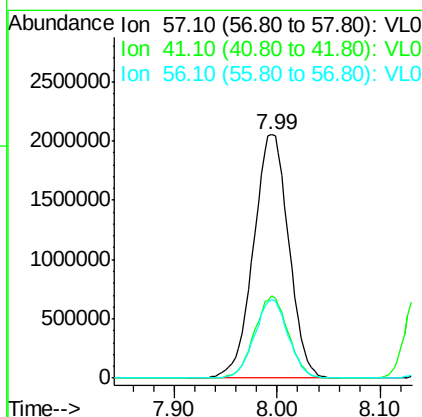
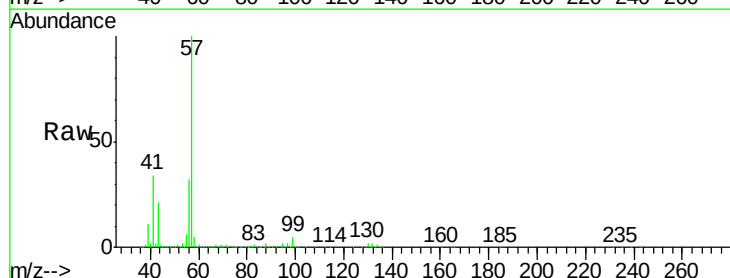
Manual Integrations
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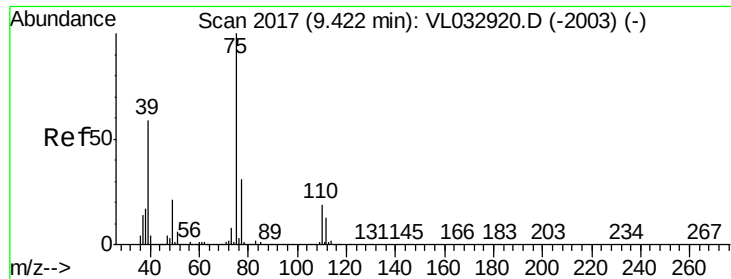
MMDadoda
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#44
2,2,4-Trimethylpentane
Concen: 10.804 ppbv
RT: 7.99 min Scan# 1573
Delta R.T. -0.01 min
Lab File: VL032951.D
Acq: 8 Dec 2018 2:24

Tgt Ion: 57 Resp: 4872598
Ion Ratio Lower Upper
57 100
41 32.3 27.0 40.4
56 30.7 24.6 37.0





#45

t-1,3-Dichloropropene

Concen: 12.795 ppbv

RT: 9.42 min Scan# 2016

Delta R.T. -0.00 min

Lab File: VL032951.D

Acq: 8 Dec 2018 2:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 75 Resp: 1544538

Ion Ratio Lower Upper

75 100

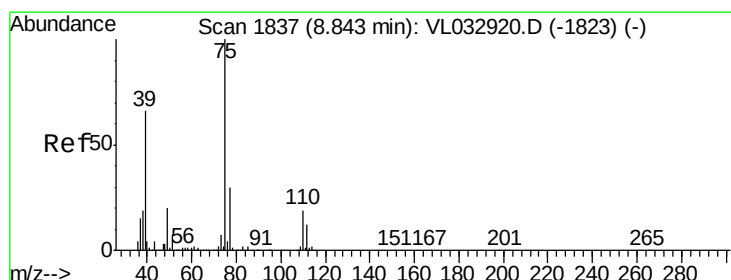
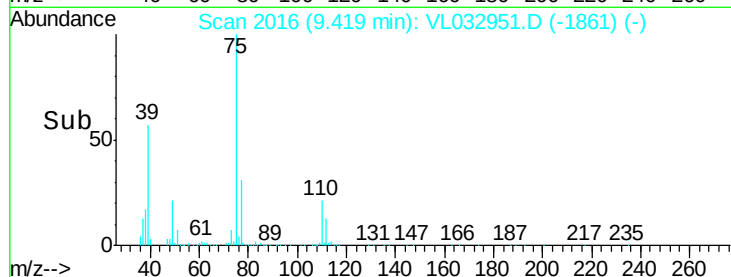
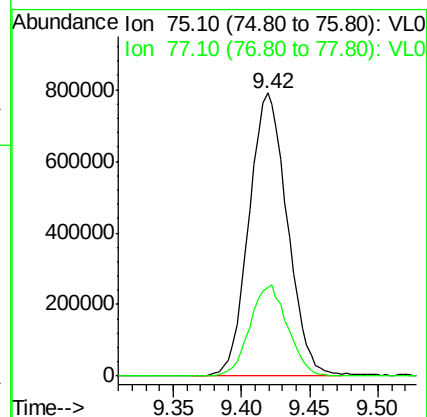
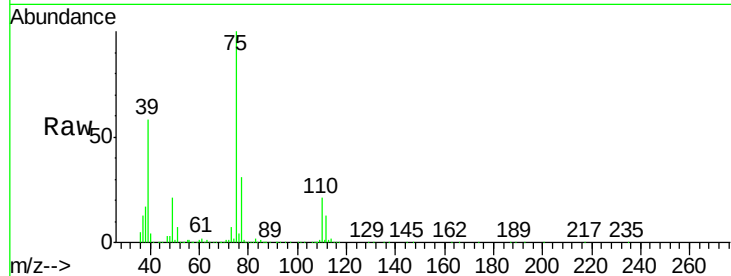
77 31.3 24.8 37.2

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#46

cis-1,3-Dichloropropene

Concen: 12.141 ppbv

RT: 8.84 min Scan# 1836

Delta R.T. -0.00 min

Lab File: VL032951.D

Acq: 8 Dec 2018 2:24

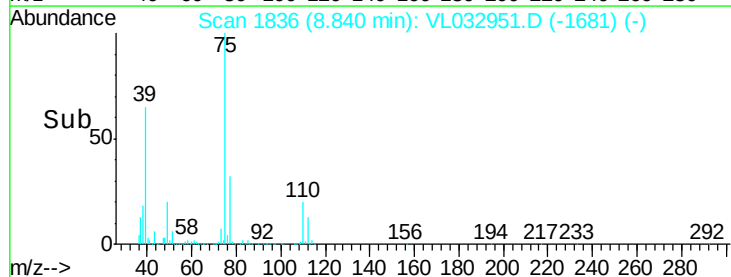
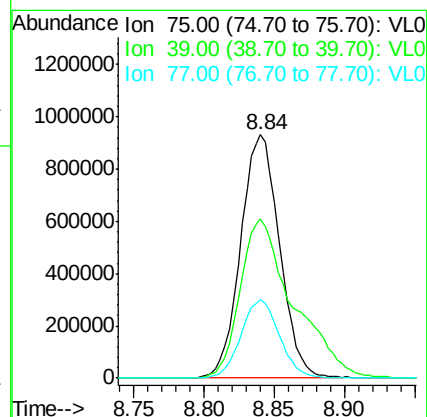
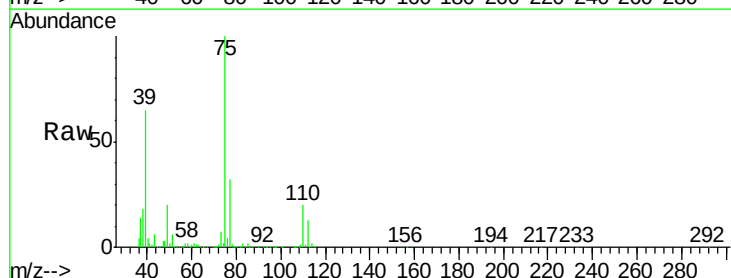
Tgt Ion: 75 Resp: 1793867

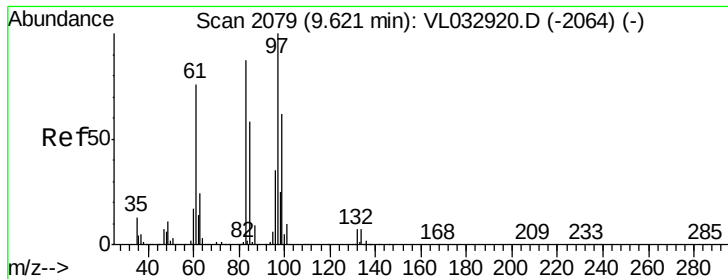
Ion Ratio Lower Upper

75 100

39 65.3 52.8 79.2

77 32.1 24.3 36.5





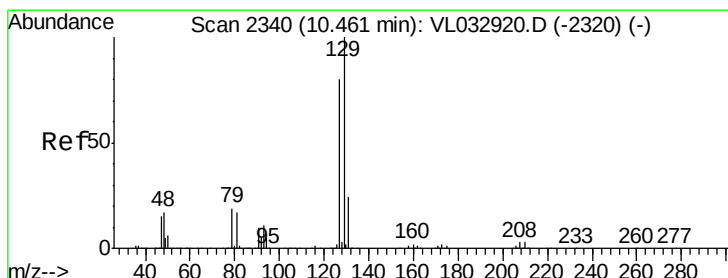
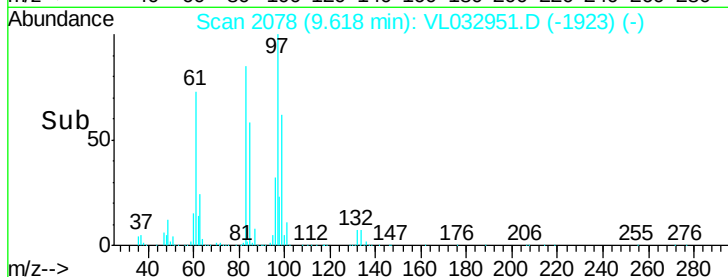
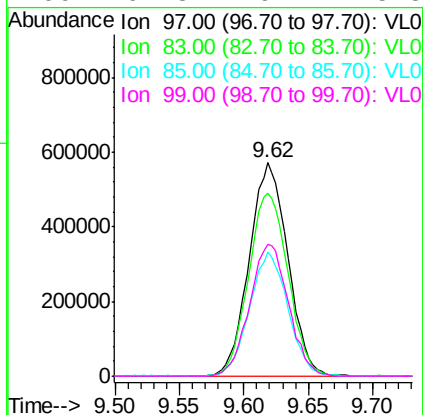
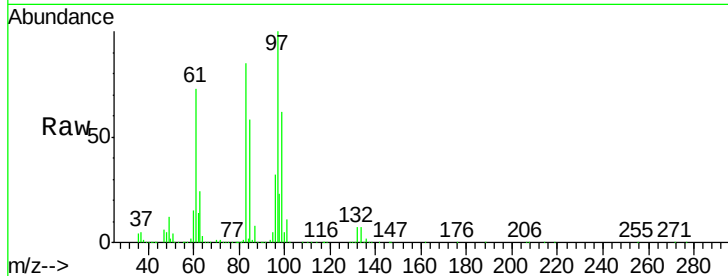
#47
 1,1,2-Trichloroethane
 Concen: 10.777 ppbv
 RT: 9.62 min Scan# 2078
 Delta R.T. -0.00 min
 Lab File: VL032951.D
 Acq: 8 Dec 2018 2:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion	Ratio	Lower	Upper
97	100		
83	85.4	69.8	104.8
85	57.8	46.7	70.1
99	61.8	49.2	73.8

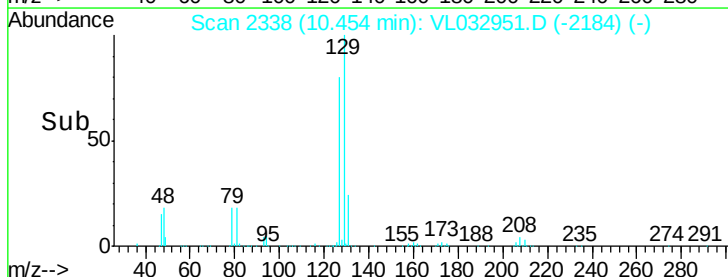
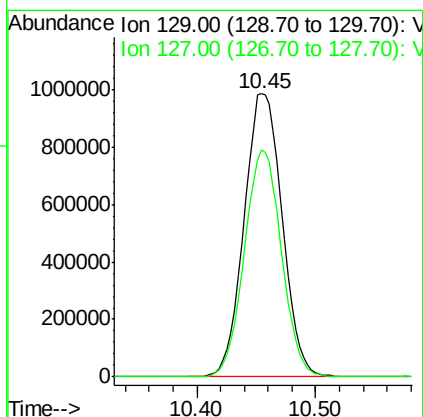
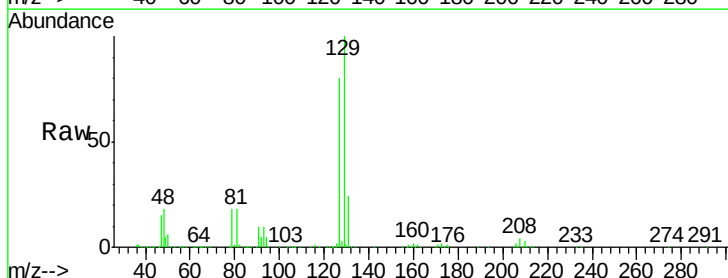
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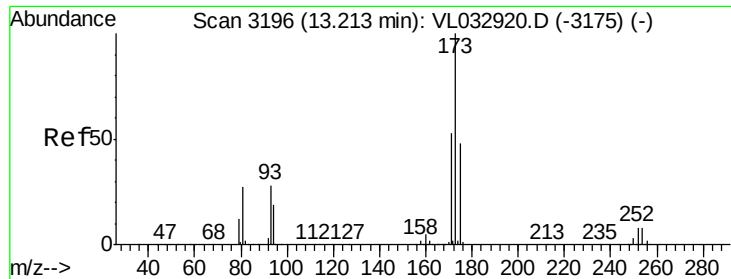
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#48
 Dibromochloromethane
 Concen: 10.503 ppbv
 RT: 10.45 min Scan# 2338
 Delta R.T. -0.01 min
 Lab File: VL032951.D
 Acq: 8 Dec 2018 2:24

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.1	39.3	117.8





#49

Bromoform

Concen: 10.606 ppbv

RT: 13.21 min Scan# 3195

Delta R.T. -0.00 min

Lab File: VL032951.D

Acq: 8 Dec 2018 2:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion:173 Resp: 1814978

Ion Ratio Lower Upper

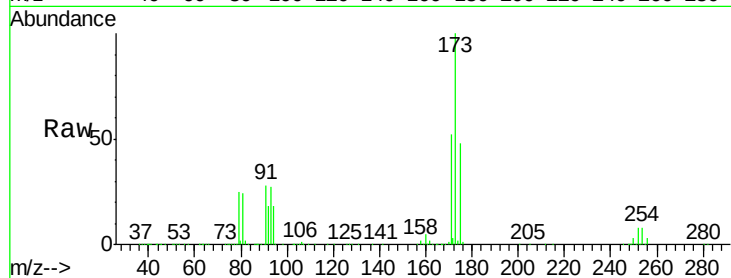
173 100

175 48.8 39.0 58.4

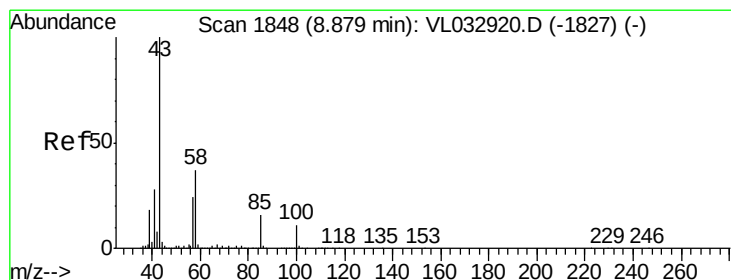
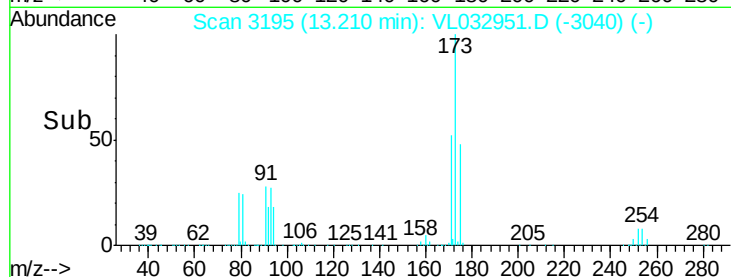
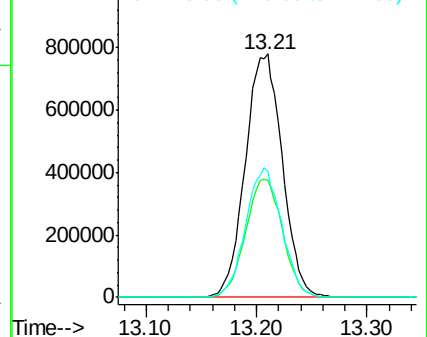
171 51.9 41.5 62.3

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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: 11.025 ppbv

RT: 8.87 min Scan# 1846

Delta R.T. -0.01 min

Lab File: VL032951.D

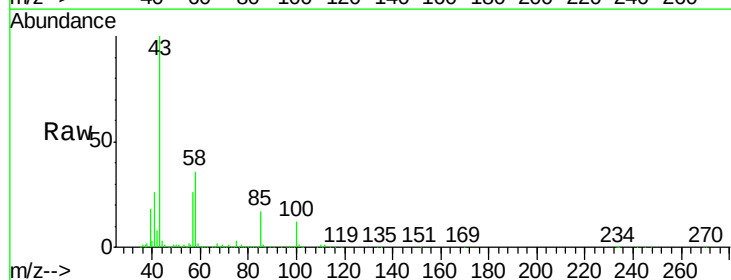
Acq: 8 Dec 2018 2:24

Tgt Ion: 43 Resp: 2774105

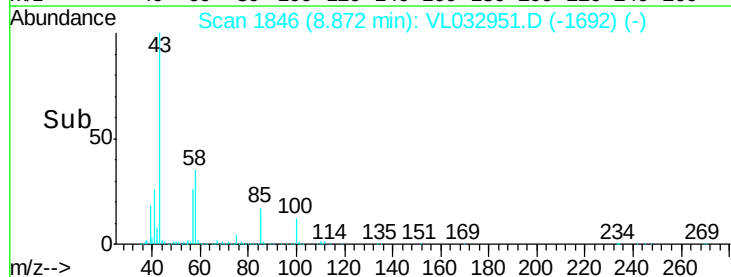
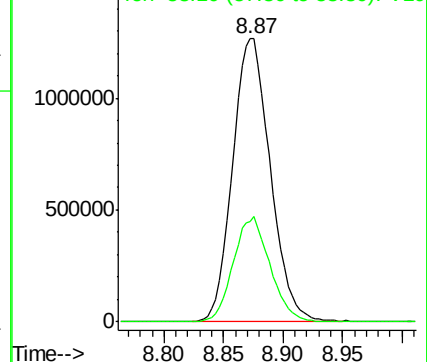
Ion Ratio Lower Upper

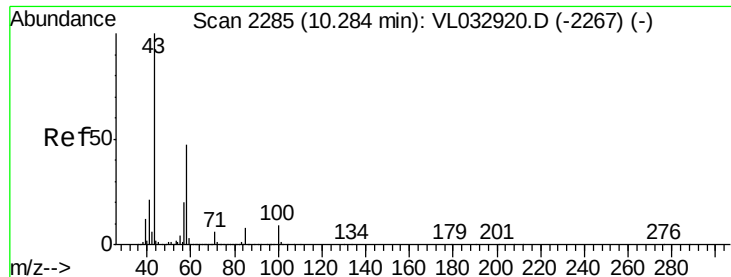
43 100

58 36.3 29.0 43.4



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





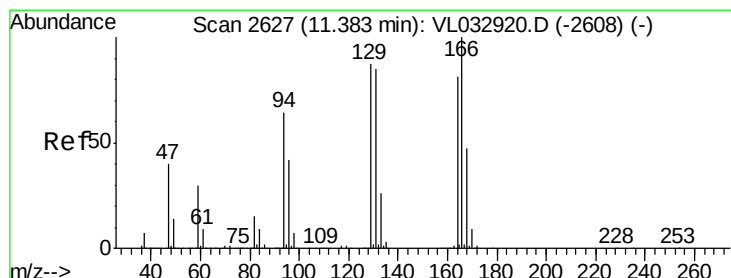
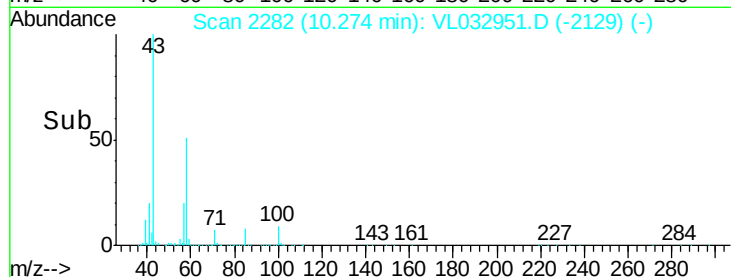
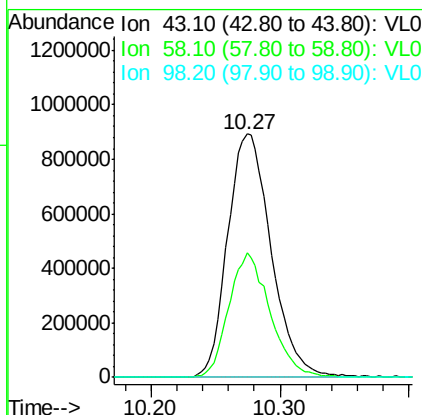
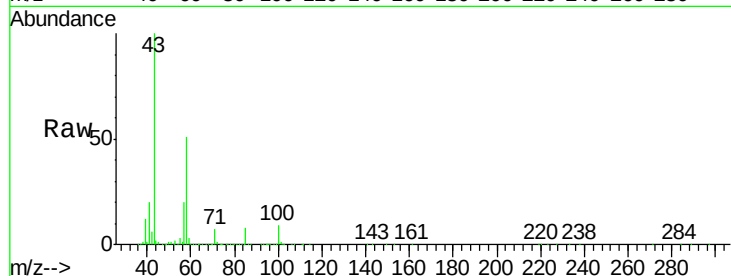
#51
2-Hexanone
Concen: 12.206 ppbv
RT: 10.27 min Scan# 2282
Delta R.T. -0.01 min
Lab File: VL032951.D
Acq: 8 Dec 2018 2:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion: 43 Resp: 2082892
Ion Ratio Lower Upper
43 100
58 48.9 38.1 57.1
98 0.3 0.4 0.6#

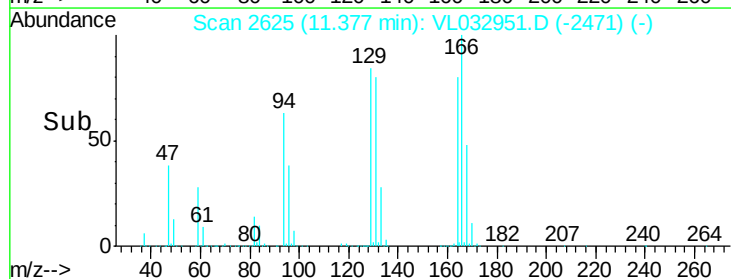
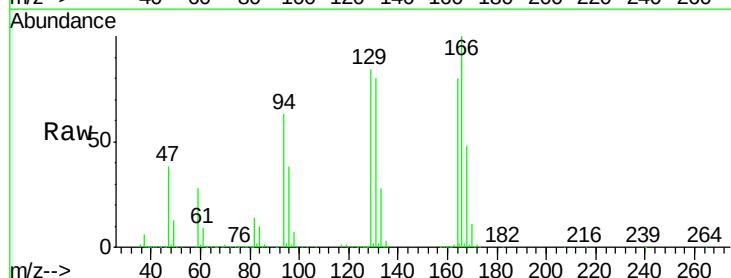
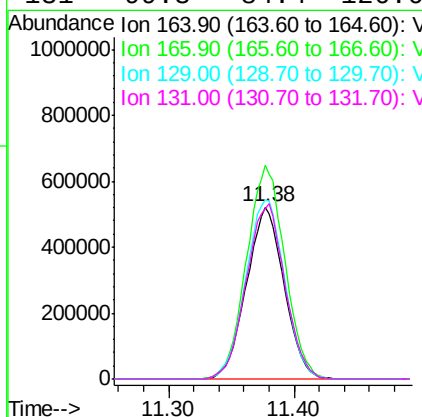
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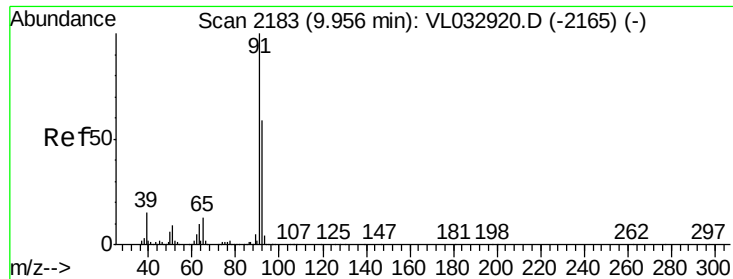
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#52
Tetrachloroethene
Concen: 11.232 ppbv
RT: 11.38 min Scan# 2625
Delta R.T. -0.01 min
Lab File: VL032951.D
Acq: 8 Dec 2018 2:24

Tgt Ion: 164 Resp: 1085582
Ion Ratio Lower Upper
164 100
166 124.2 98.8 148.2
129 104.2 85.5 128.3
131 99.3 84.4 126.6





#53

Toluene

Concen: 11.958 ppbv

RT: 9.95 min Scan# 2181

Delta R.T. -0.01 min

Lab File: VL032951.D

Acq: 8 Dec 2018 2:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 91 Resp: 3369856

Ion Ratio Lower Upper

91 100

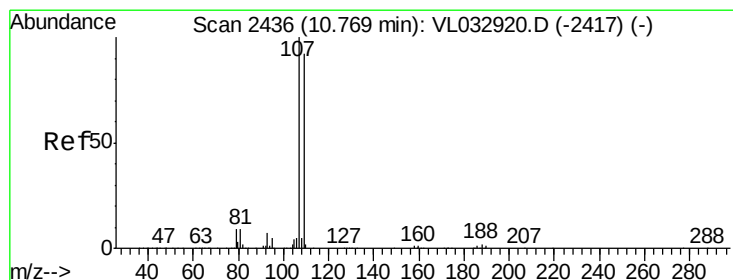
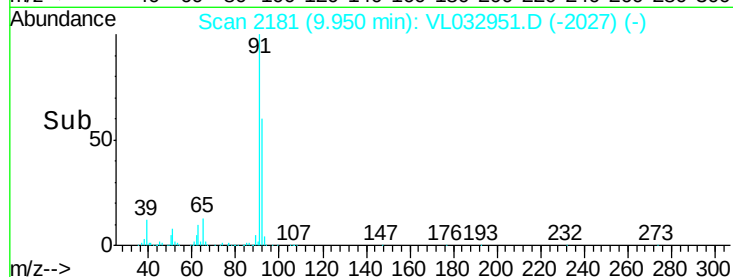
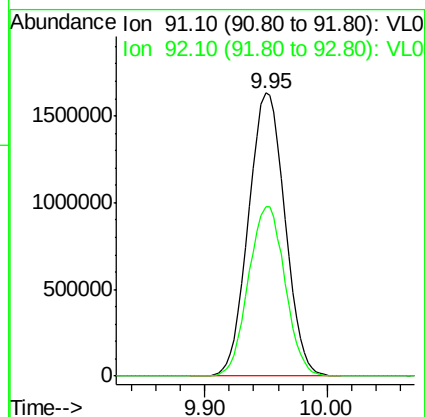
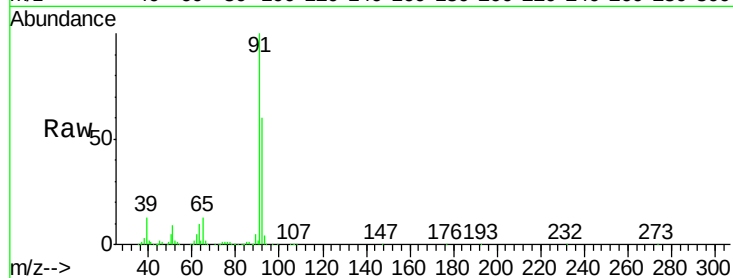
92 60.0 47.4 71.0

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#54

1,2-Dibromoethane

Concen: 10.745 ppbv

RT: 10.77 min Scan# 2435

Delta R.T. -0.00 min

Lab File: VL032951.D

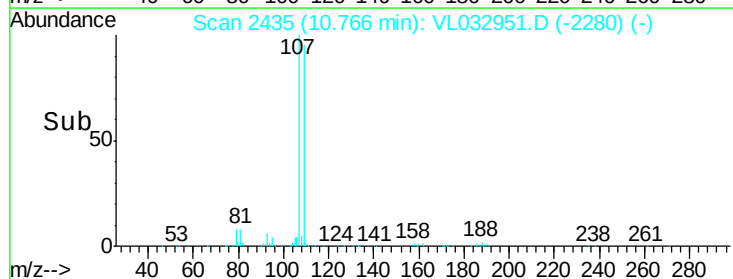
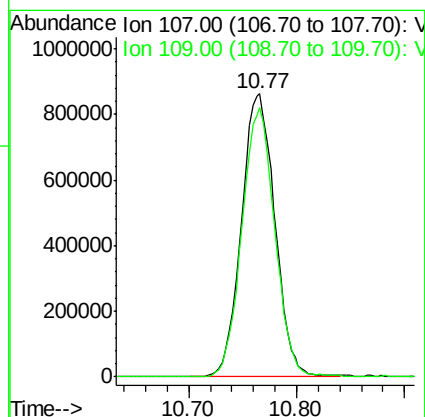
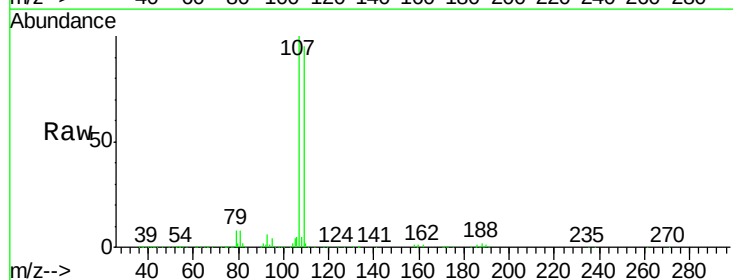
Acq: 8 Dec 2018 2:24

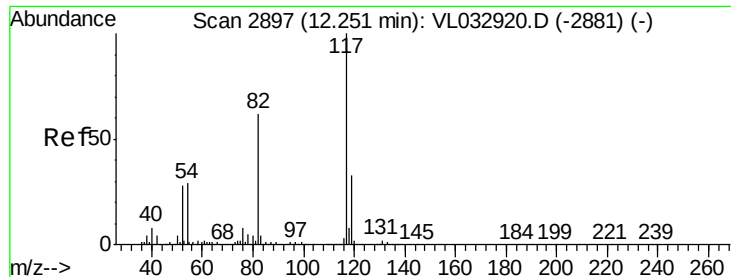
Tgt Ion: 107 Resp: 1861833

Ion Ratio Lower Upper

107 100

109 95.0 73.4 110.2





#55

Chlorobenzene-d5

Concen: 10.000 ppbv m

RT: 12.25 min Scan# 2895

Delta R.T. -0.01 min

Lab File: VL032951.D

Acq: 8 Dec 2018 2:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion:117 Resp: 3518639

Ion Ratio Lower Upper

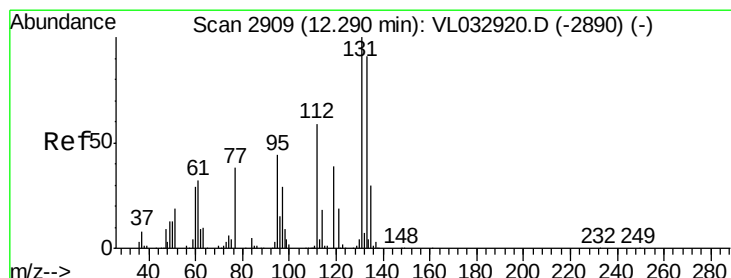
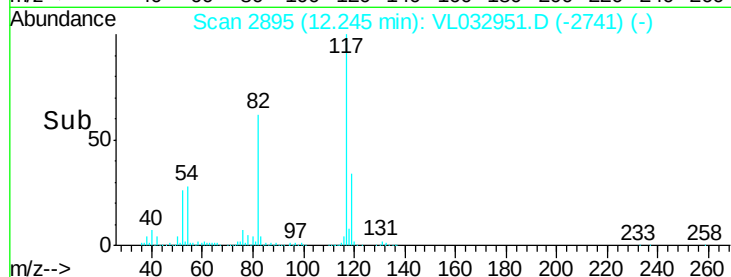
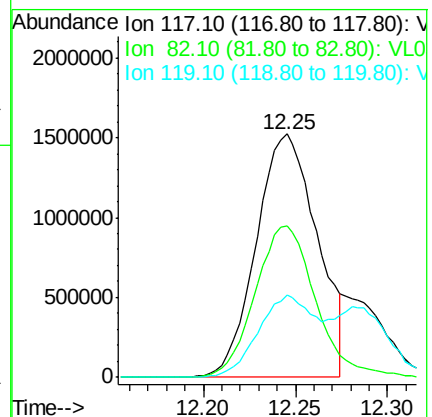
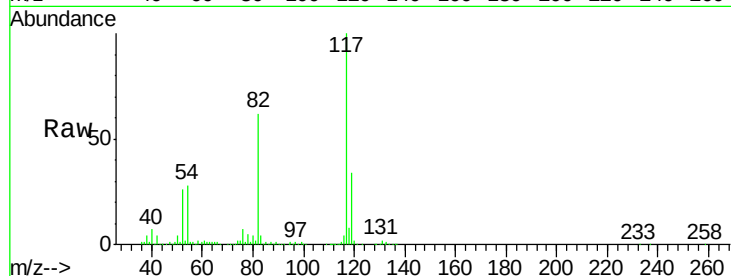
117 100

82 61.8 47.8 71.8

119 32.9 43.1 64.7#

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#56

1,1,1,2-Tetrachloroethane

Concen: 9.683 ppbv

RT: 12.28 min Scan# 2907

Delta R.T. -0.01 min

Lab File: VL032951.D

Acq: 8 Dec 2018 2:24

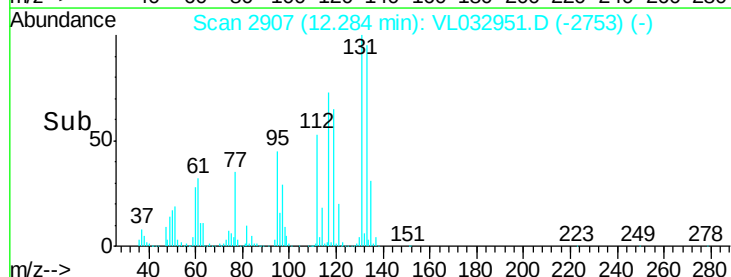
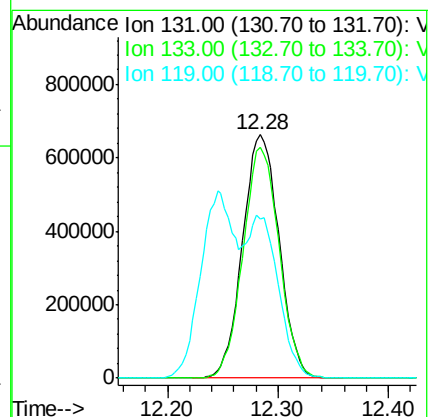
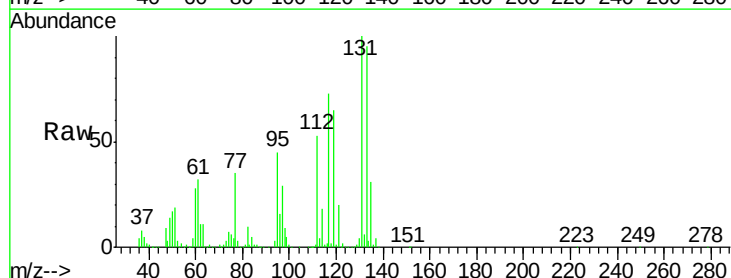
Tgt Ion:131 Resp: 1519021

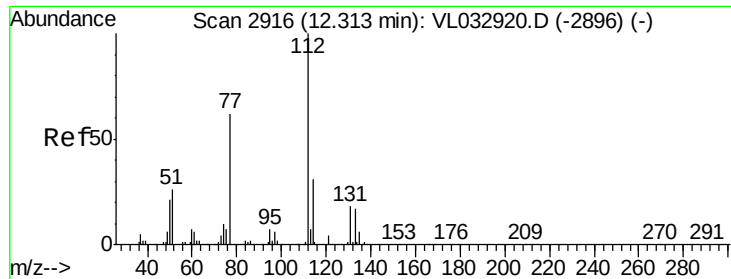
Ion Ratio Lower Upper

131 100

133 94.1 75.1 112.7

119 57.2 47.5 71.3





#57

Chlorobenzene

Concen: 9.838 ppbv

RT: 12.31 min Scan# 2914

Delta R.T. -0.01 min

Lab File: VL032951.D

Acq: 8 Dec 2018 2:24

Instrument :

MSVOA_L

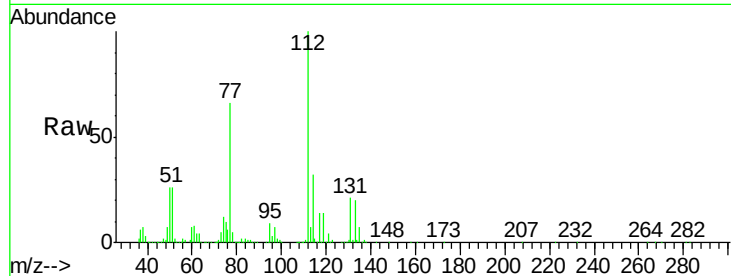
ClientSampleId :

VSTDCCC010EC

Tgt Ion:	112	Resp:	2500126
Ion	Ratio	Lower	Upper
112	100		
77	65.4	51.1	76.7
114	31.5	28.4	34.7

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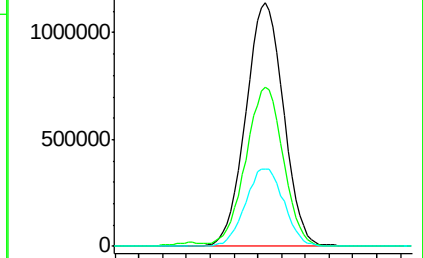
MMDadoda
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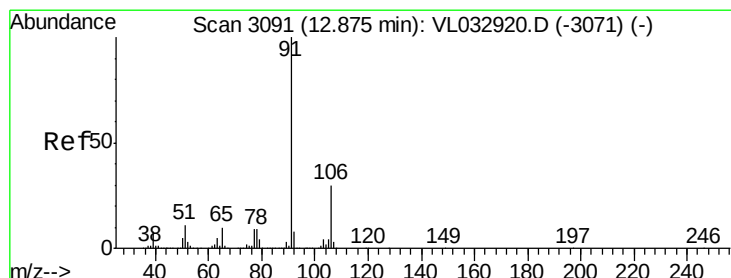
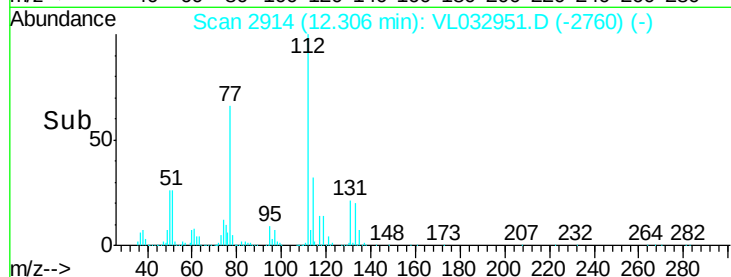
Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



Time-->



#58

Ethyl Benzene

Concen: 12.001 ppbv

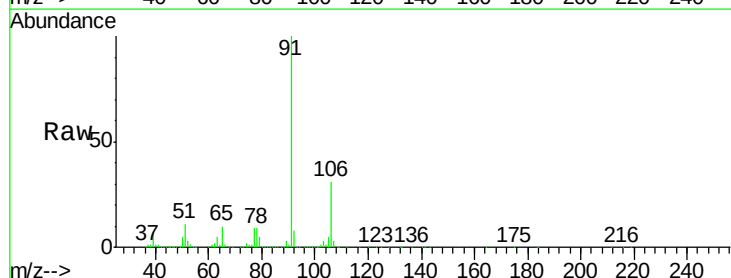
RT: 12.87 min Scan# 3089

Delta R.T. -0.01 min

Lab File: VL032951.D

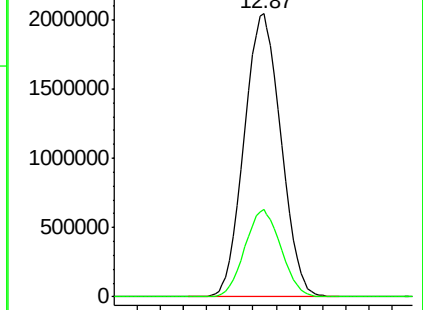
Acq: 8 Dec 2018 2:24

Tgt Ion:	91	Resp:	4504854
Ion	Ratio	Lower	Upper
91	100		
106	31.1	23.9	35.9

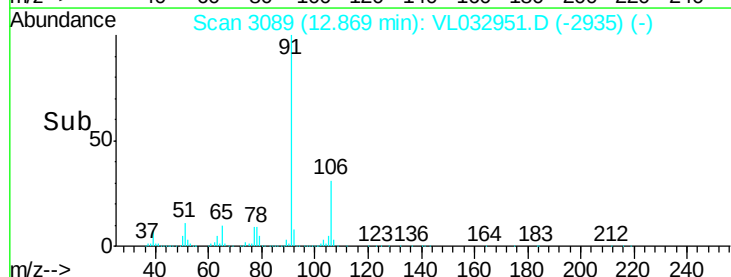


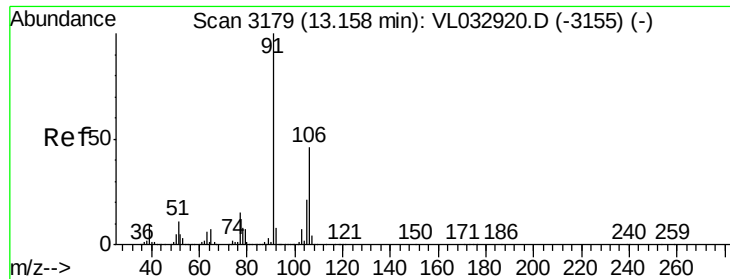
Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



Time-->





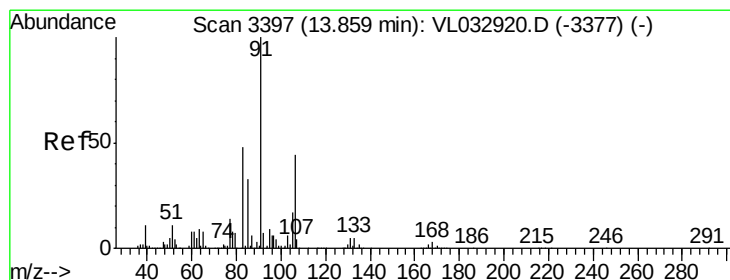
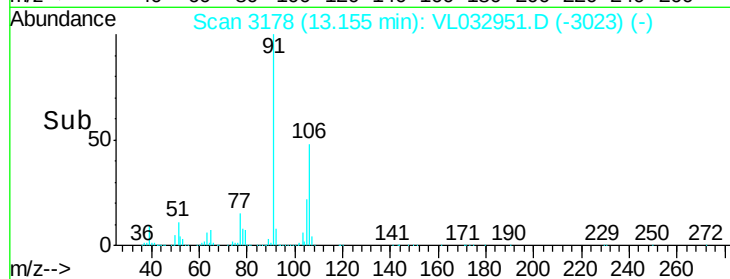
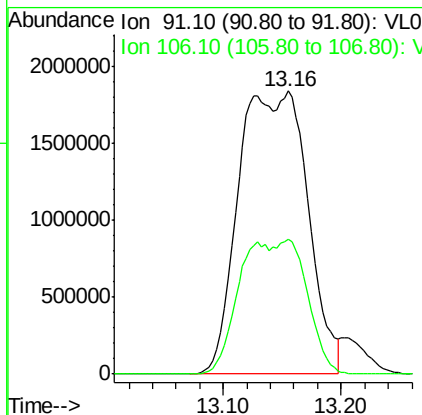
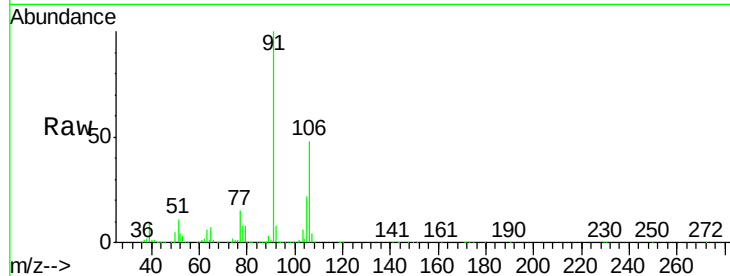
#59
m/p-Xylene
Concen: 21.903 ppbv m
RT: 13.16 min Scan# 3178
Delta R.T. -0.00 min
Lab File: VL032951.D
Acq: 8 Dec 2018 2:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion: 91 Resp: 7453807
Ion Ratio Lower Upper
91 100
106 46.2 0.0 0.0#

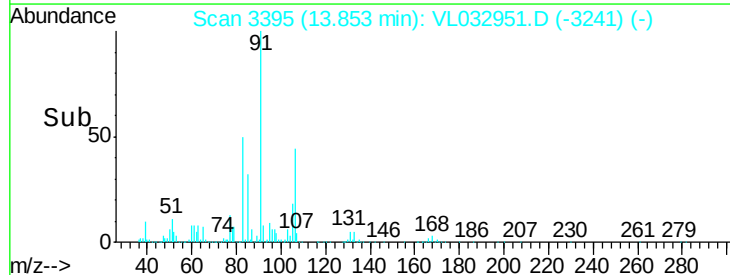
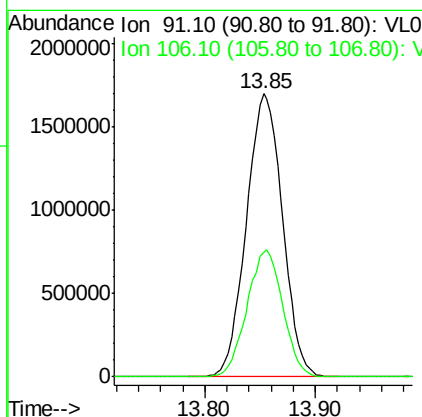
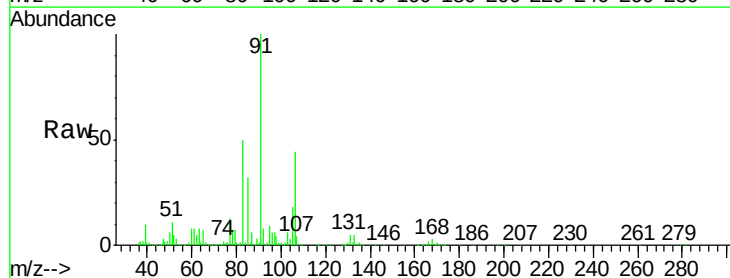
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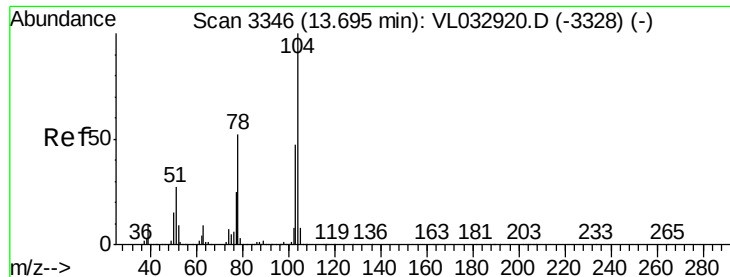
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#60
o-Xylene
Concen: 11.216 ppbv
RT: 13.85 min Scan# 3395
Delta R.T. -0.01 min
Lab File: VL032951.D
Acq: 8 Dec 2018 2:24

Tgt Ion: 91 Resp: 3854463
Ion Ratio Lower Upper
91 100
106 44.5 21.9 65.8





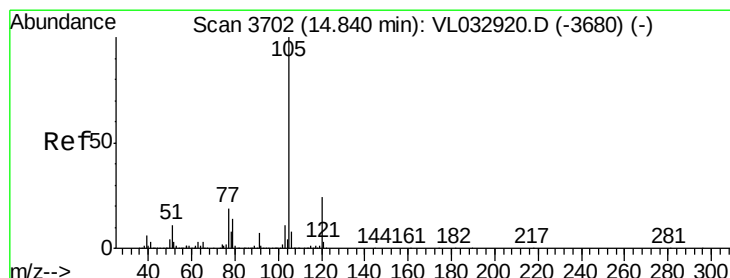
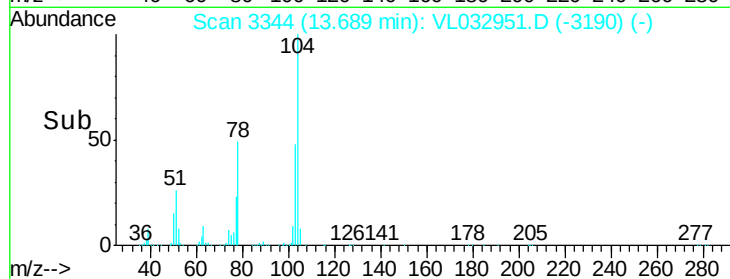
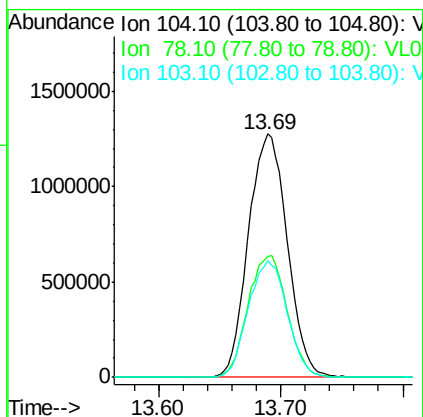
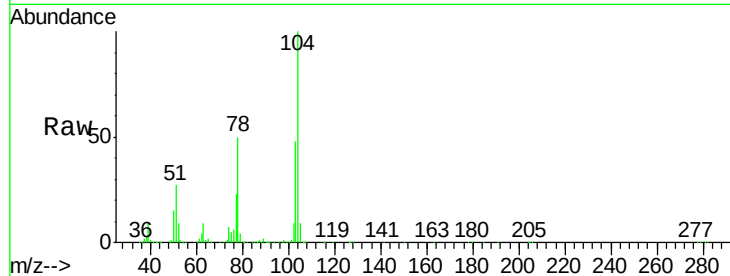
#61
Styrene
Concen: 12.269 ppbv
RT: 13.69 min Scan# 3344
Delta R.T. -0.01 min
Lab File: VL032951.D
Acq: 8 Dec 2018 2:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion:104 Resp: 2804894
Ion Ratio Lower Upper
104 100
78 50.6 42.0 63.0
103 48.1 38.3 57.5

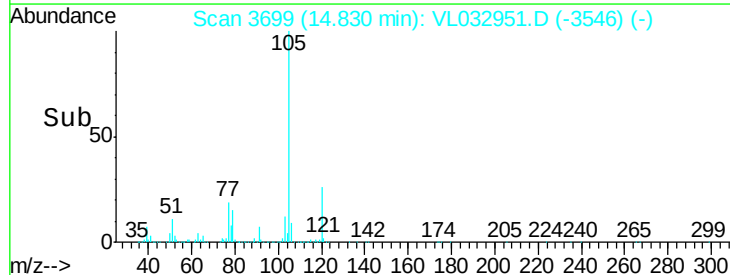
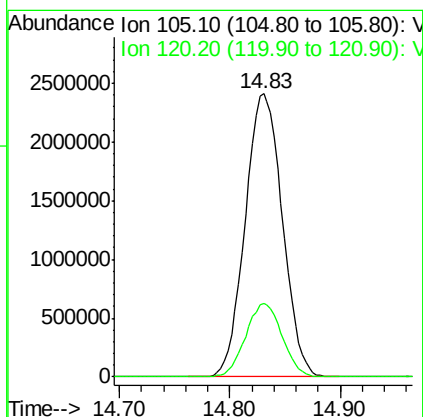
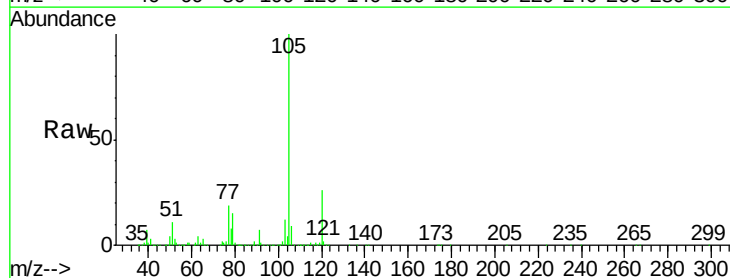
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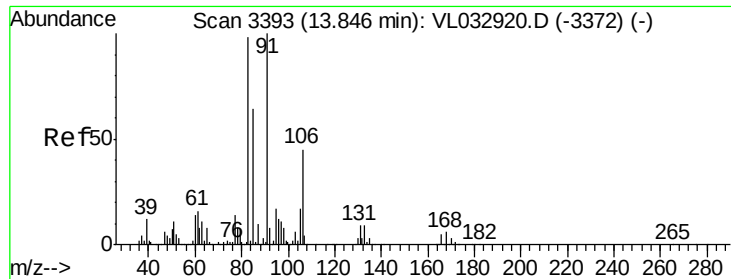
MMDadoda
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#62
Isopropylbenzene
Concen: 11.744 ppbv
RT: 14.83 min Scan# 3699
Delta R.T. -0.01 min
Lab File: VL032951.D
Acq: 8 Dec 2018 2:24

Tgt Ion:105 Resp: 5631040
Ion Ratio Lower Upper
105 100
120 25.3 20.3 30.5





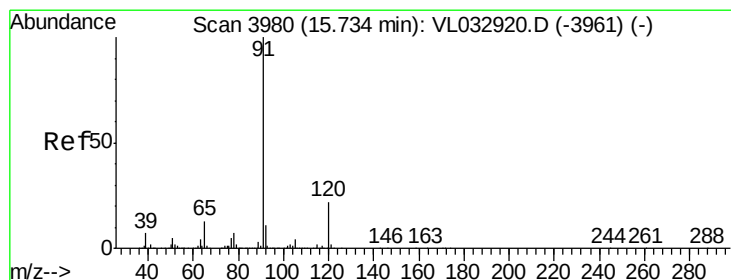
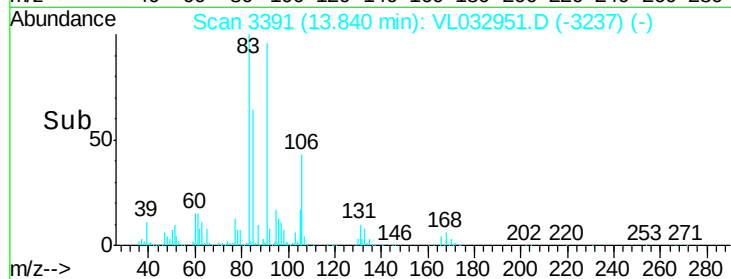
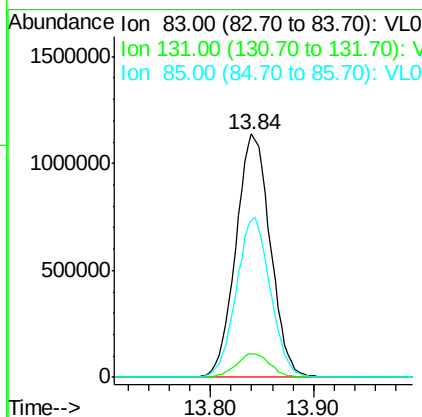
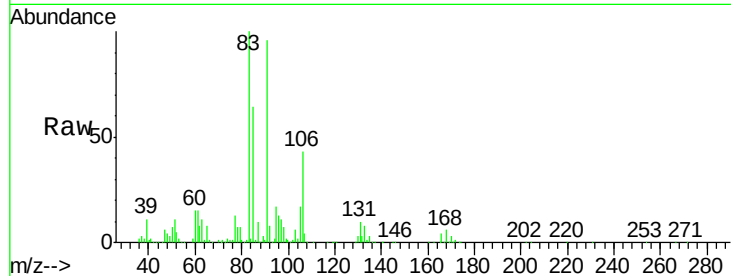
#63
 1,1,2,2-Tetrachloroethane
 Concen: 9.904 ppbv
 RT: 13.84 min Scan# 3391
 Delta R.T. -0.01 min
 Lab File: VL032951.D
 Acq: 8 Dec 2018 2:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion: 83 Resp: 2643002
 Ion Ratio Lower Upper
 83 100
 131 9.7 4.9 14.6
 85 65.2 32.9 98.6

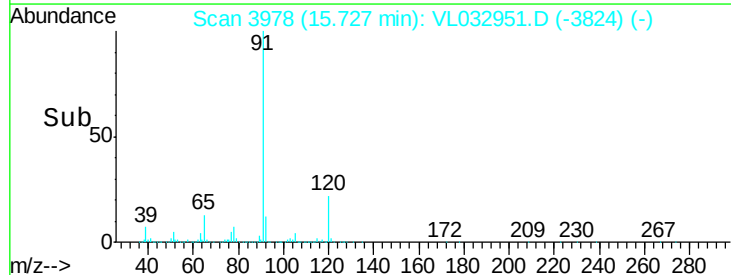
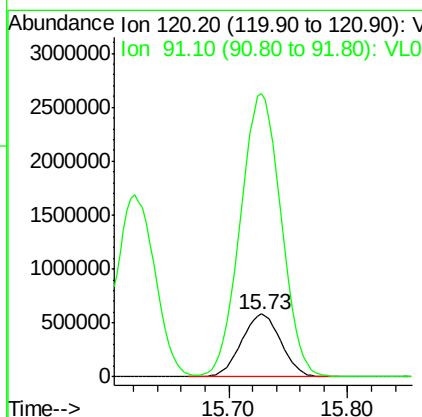
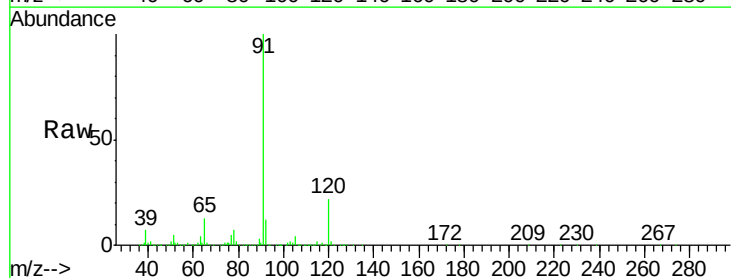
Manual Integrations
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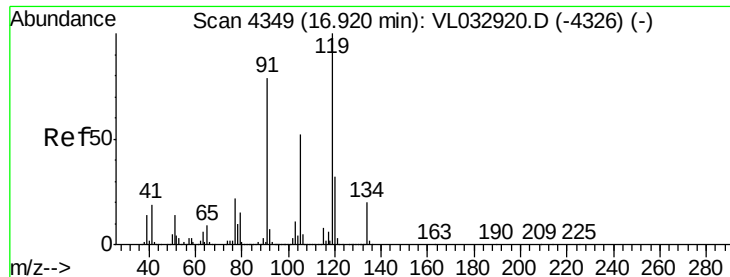
MMDadoda
 12/11/2018 10:09:51 AM



#64
 n-propylbenzene
 Concen: 10.709 ppbv
 RT: 15.73 min Scan# 3978
 Delta R.T. -0.01 min
 Lab File: VL032951.D
 Acq: 8 Dec 2018 2:24

Tgt Ion: 120 Resp: 1333689
 Ion Ratio Lower Upper
 120 100
 91 467.9 380.4 570.6





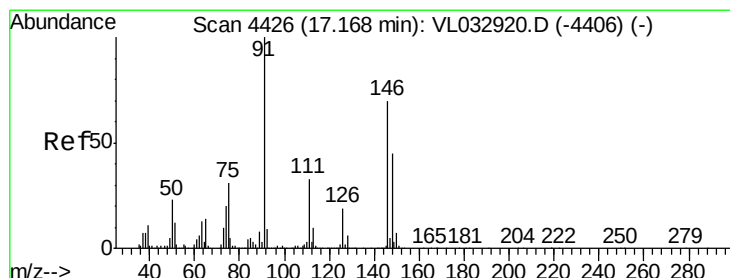
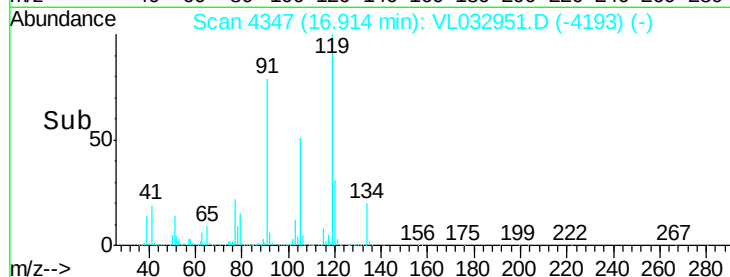
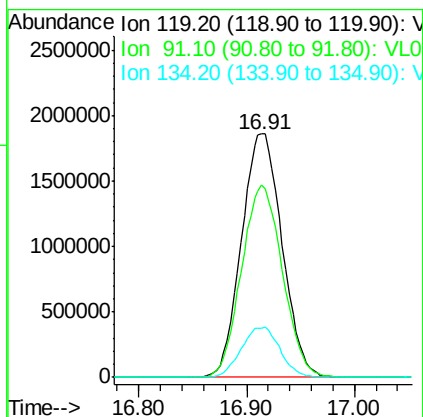
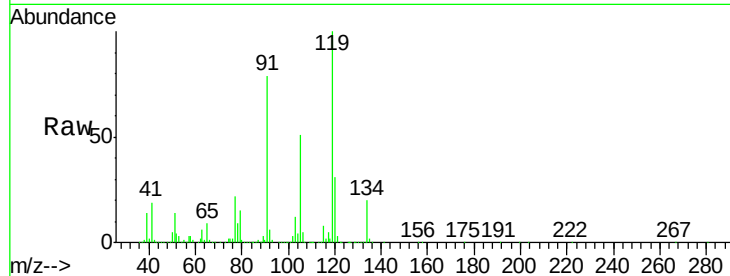
#65
 tert-Butylbenzene
 Concen: 10.929 ppbv
 RT: 16.91 min Scan# 4347
 Delta R.T. -0.01 min
 Lab File: VL032951.D
 Acq: 8 Dec 2018 2:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion: 119 Resp: 4858212
 Ion Ratio Lower Upper
 119 100
 91 79.6 64.5 96.7
 134 19.7 15.7 23.5

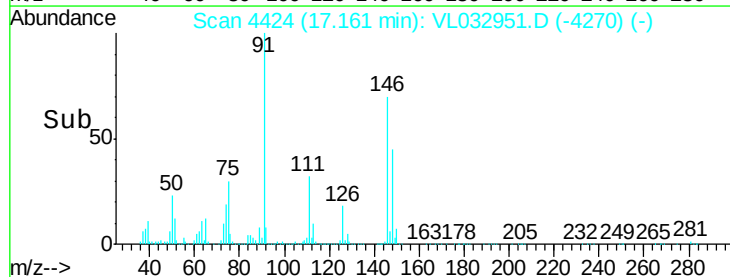
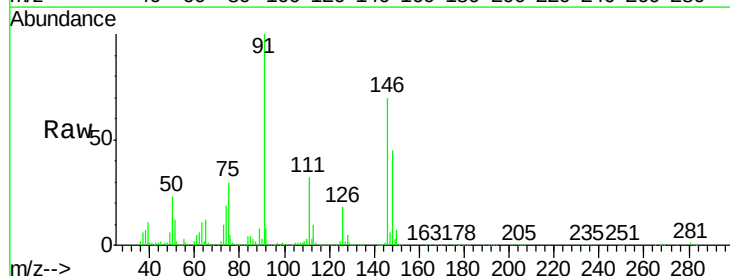
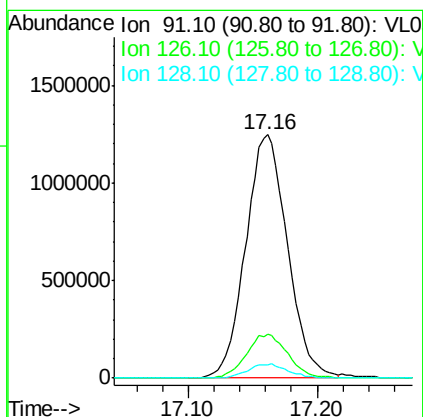
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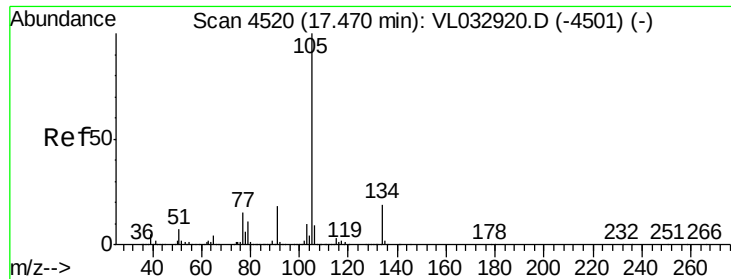
MMDadoda
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#66
 Benzyl Chloride
 Concen: 11.390 ppbv
 RT: 17.16 min Scan# 4424
 Delta R.T. -0.01 min
 Lab File: VL032951.D
 Acq: 8 Dec 2018 2:24

Tgt Ion: 91 Resp: 2806149
 Ion Ratio Lower Upper
 91 100
 126 18.0 14.1 21.1
 128 5.7 4.5 6.7





#67

sec-Butylbenzene

Concen: 9.569 ppbv

RT: 17.46 min Scan# 4518

Delta R.T. -0.01 min

Lab File: VL032951.D

Acq: 8 Dec 2018 2:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 105 Resp: 6271349

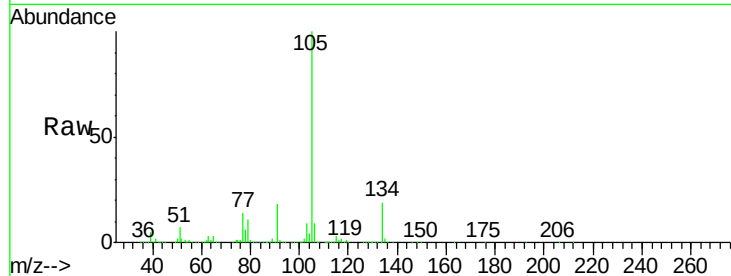
Ion Ratio Lower Upper

105 100

134 18.5 14.6 21.8

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

3000000

2500000

2000000

1500000

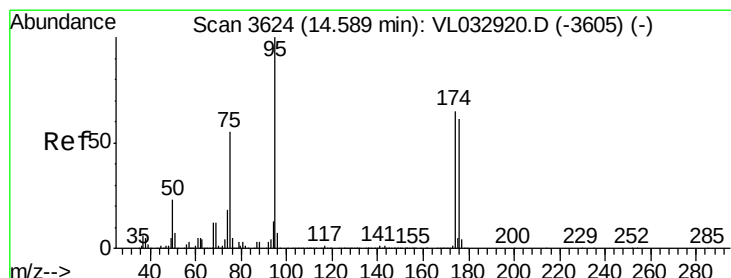
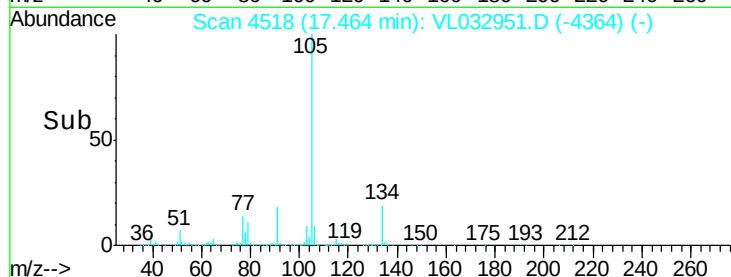
1000000

500000

0

17.40 17.46 17.50

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 9.960 ppbv

RT: 14.58 min Scan# 3621

Delta R.T. -0.01 min

Lab File: VL032951.D

Acq: 8 Dec 2018 2:24

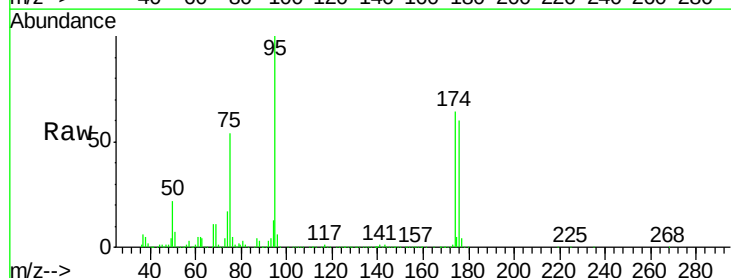
Tgt Ion: 95 Resp: 2589078

Ion Ratio Lower Upper

95 100

174 64.2 51.4 77.0

175 4.8 3.8 5.6



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

1500000

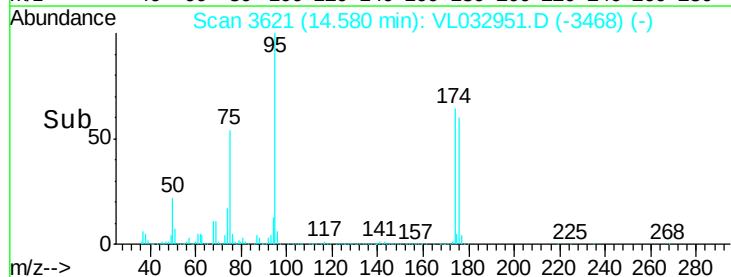
1000000

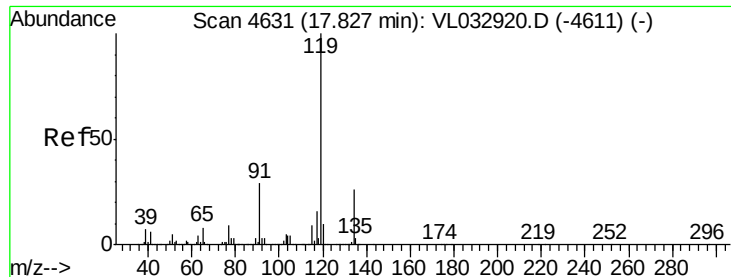
500000

0

14.50 14.58 14.60

Time-->





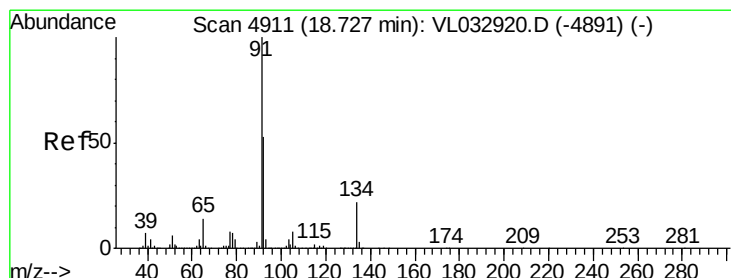
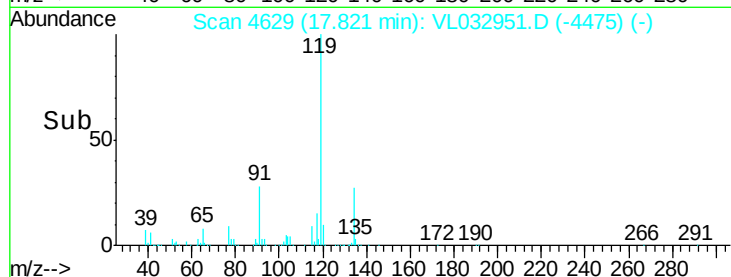
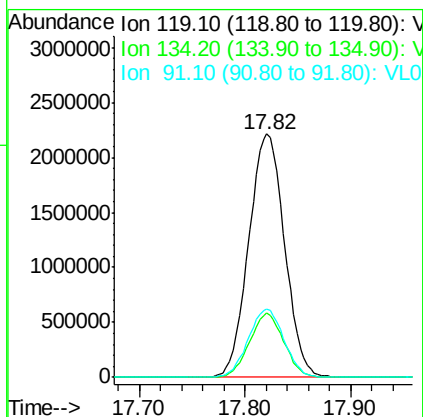
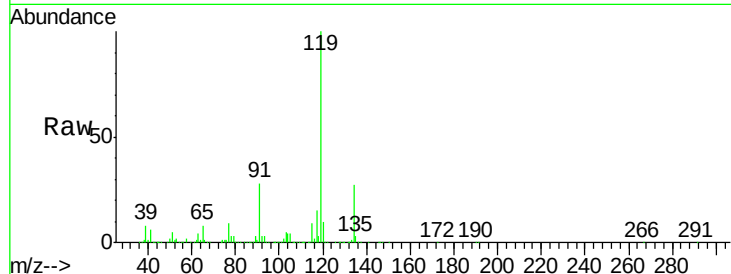
#69
p-Isopropyltoluene
Concen: 9.868 ppbv
RT: 17.82 min Scan# 4629
Delta R.T. -0.01 min
Lab File: VL032951.D
Acq: 8 Dec 2018 2:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.4	20.2	30.2
91	28.1	22.9	34.3

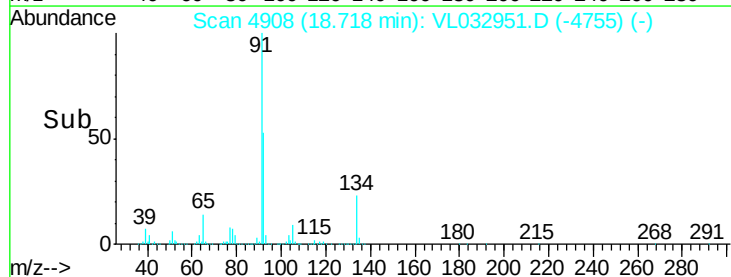
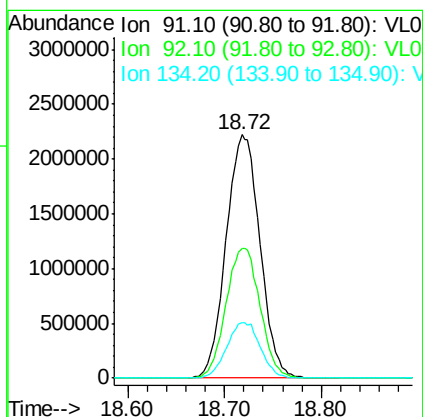
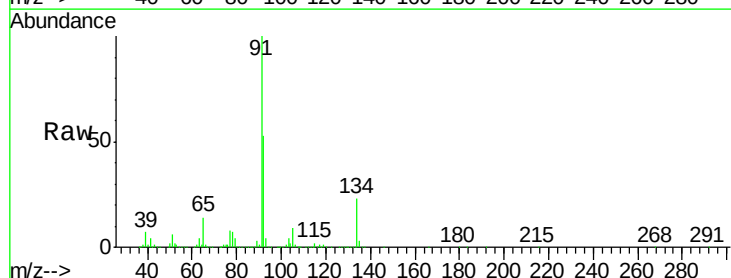
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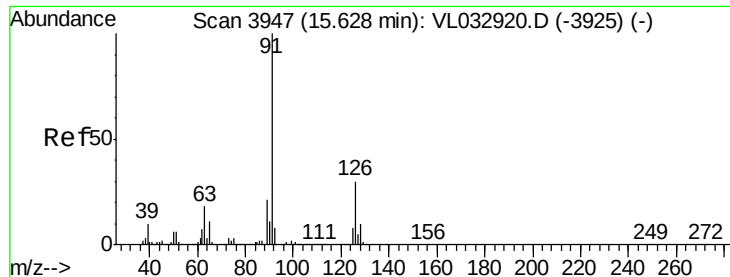
MMDadoda
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#70
n-Butylbenzene
Concen: 11.027 ppbv
RT: 18.72 min Scan# 4908
Delta R.T. -0.01 min
Lab File: VL032951.D
Acq: 8 Dec 2018 2:24

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.8	42.7	64.1
134	22.6	18.0	27.0





#71

2-Chlorotoluene

Concen: 10.858 ppbv

RT: 15.62 min Scan# 3945

Delta R.T. -0.01 min

Lab File: VL032951.D

Acq: 8 Dec 2018 2:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 91 Resp: 3871586

Ion Ratio Lower Upper

91 100

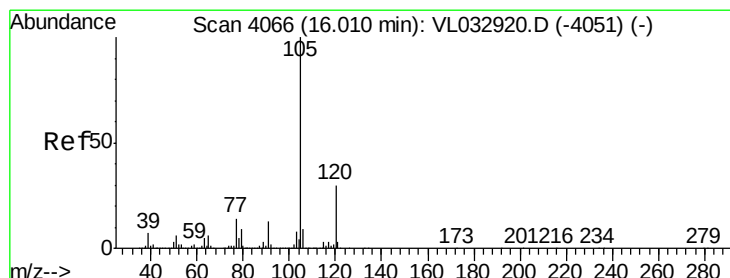
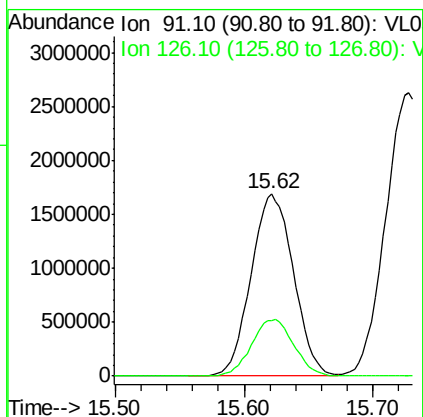
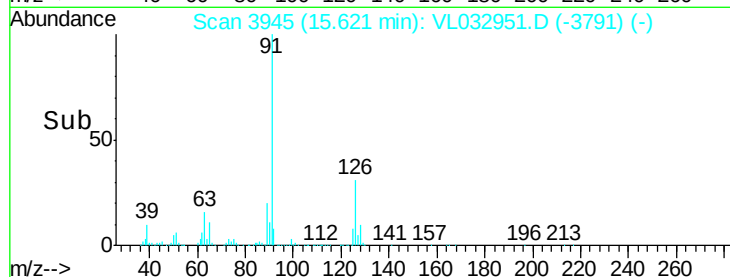
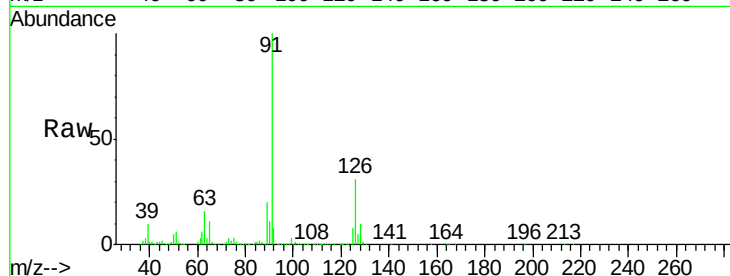
126 31.0 12.3 49.3

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#72

4-Ethyltoluene

Concen: 11.198 ppbv

RT: 16.01 min Scan# 4065

Delta R.T. -0.00 min

Lab File: VL032951.D

Acq: 8 Dec 2018 2:24

Tgt Ion: 105 Resp: 4296371

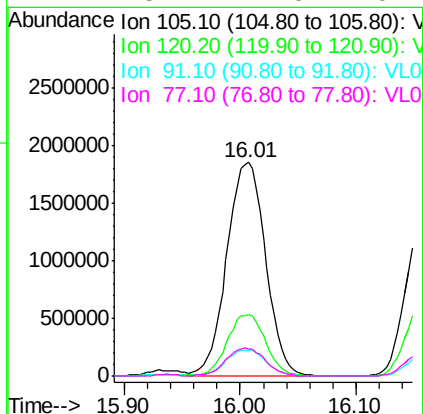
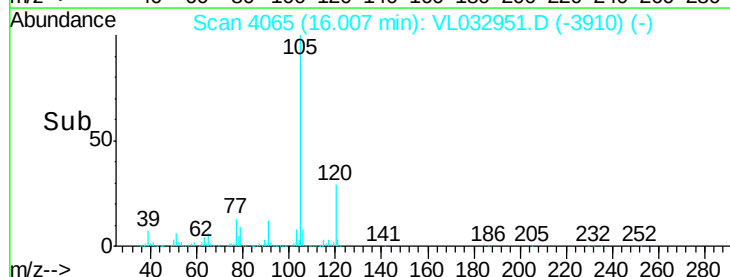
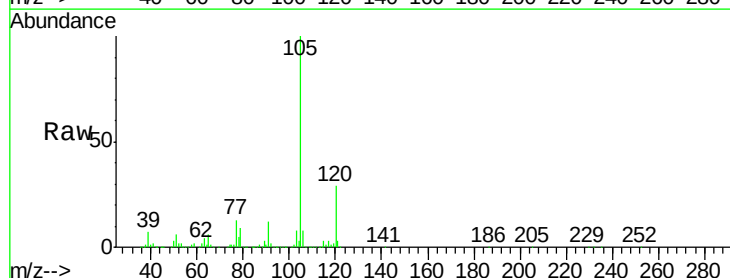
Ion Ratio Lower Upper

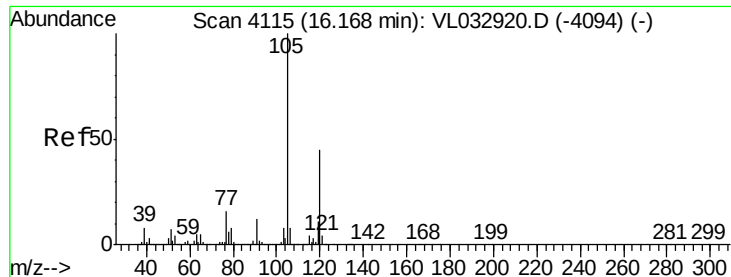
105 100

120 28.6 23.0 34.4

91 12.6 10.4 15.6

77 13.4 11.0 16.4





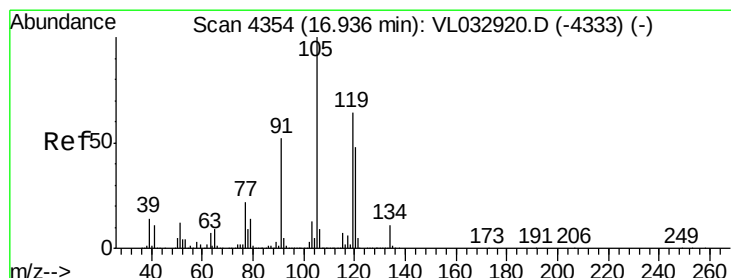
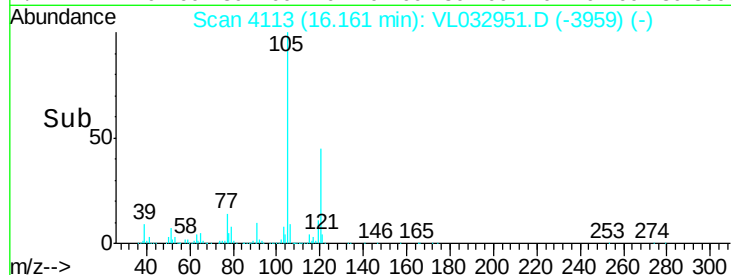
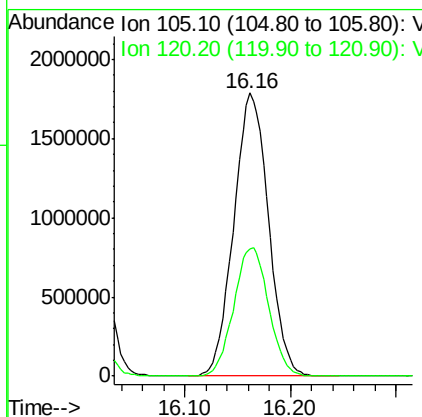
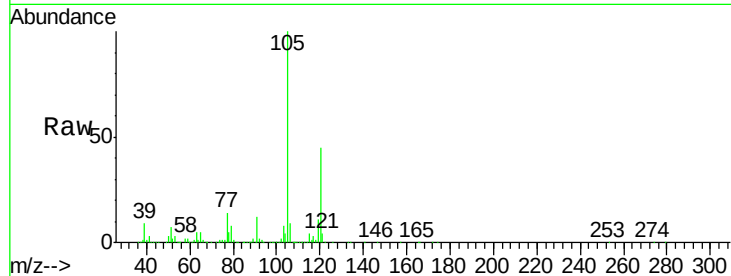
#73
 1,3,5-Trimethylbenzene
 Concen: 10.820 ppbv
 RT: 16.16 min Scan# 4113
 Delta R.T. -0.01 min
 Lab File: VL032951.D
 Acq: 8 Dec 2018 2:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion:105 Resp: 4052852
 Ion Ratio Lower Upper
 105 100
 120 44.8 36.0 54.0

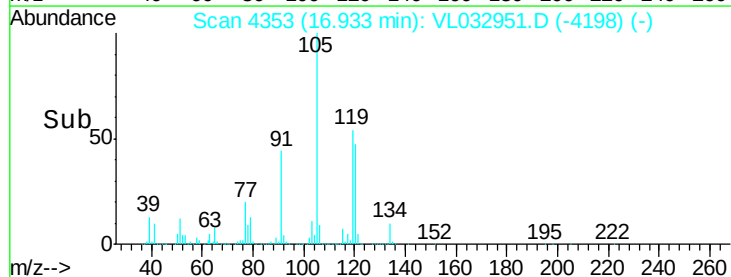
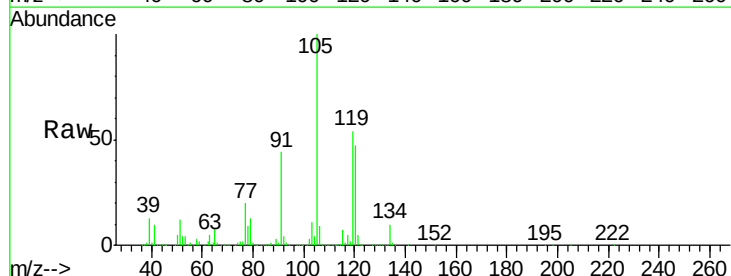
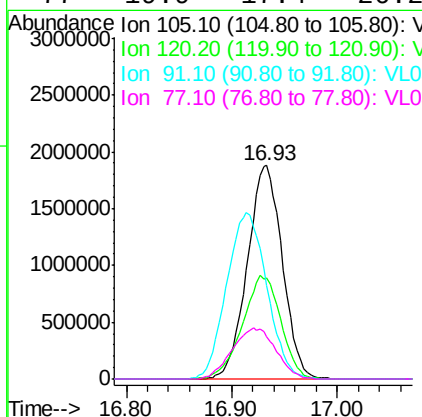
Manual Integrations
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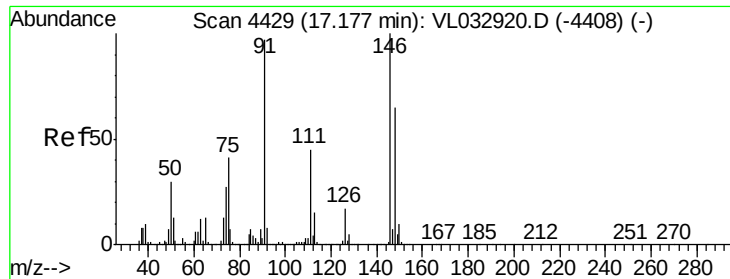
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#74
 1,2,4-Trimethylbenzene
 Concen: 10.296 ppbv
 RT: 16.93 min Scan# 4353
 Delta R.T. -0.00 min
 Lab File: VL032951.D
 Acq: 8 Dec 2018 2:24

Tgt Ion:105 Resp: 4354388
 Ion Ratio Lower Upper
 105 100
 120 47.1 38.6 58.0
 91 43.5 41.7 62.5
 77 19.9 17.4 26.2





#75

1,3-Dichlorobenzene

Concen: 9.937 ppbv

RT: 17.17 min Scan# 4427

Delta R.T. -0.01 min

Lab File: VL032951.D

Acq: 8 Dec 2018 2:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion:146 Resp: 2474997

Ion Ratio Lower Upper

146 100

111 46.7 23.6 70.8

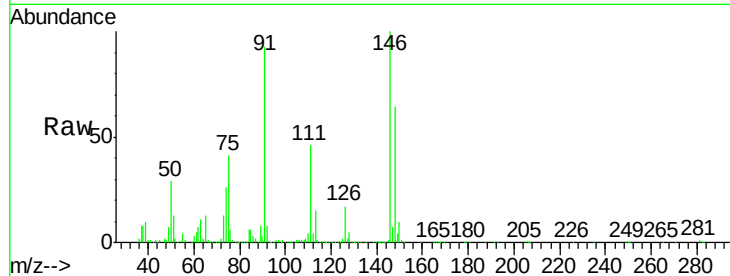
148 63.5 32.1 96.3

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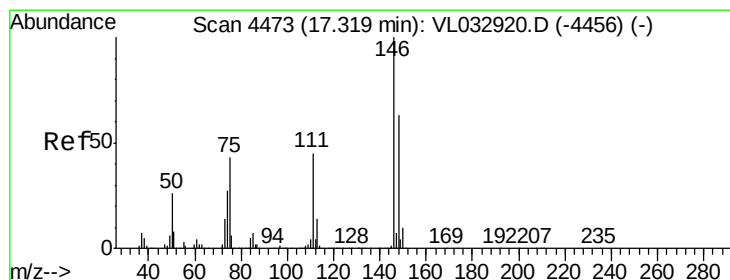
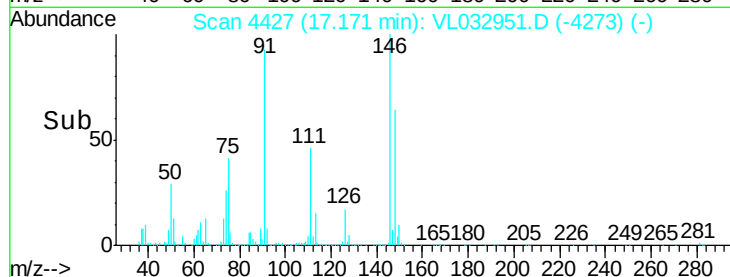
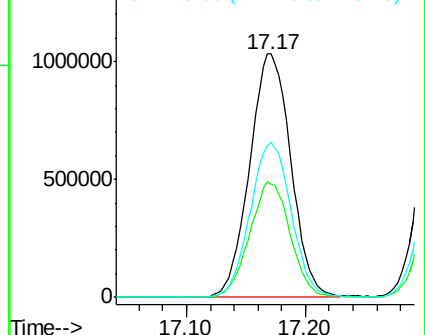
12/11/2018 10:09:51 AM



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: 9.717 ppbv

RT: 17.32 min Scan# 4472

Delta R.T. -0.00 min

Lab File: VL032951.D

Acq: 8 Dec 2018 2:24

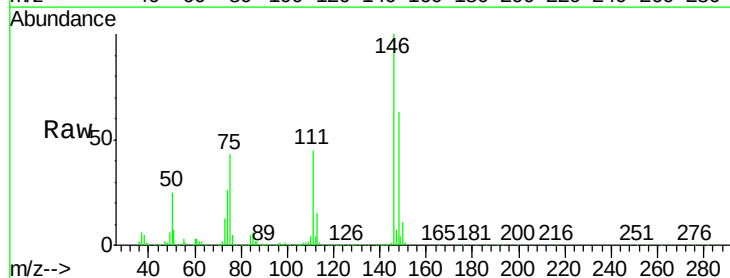
Tgt Ion:146 Resp: 2258251

Ion Ratio Lower Upper

146 100

111 45.9 22.8 68.4

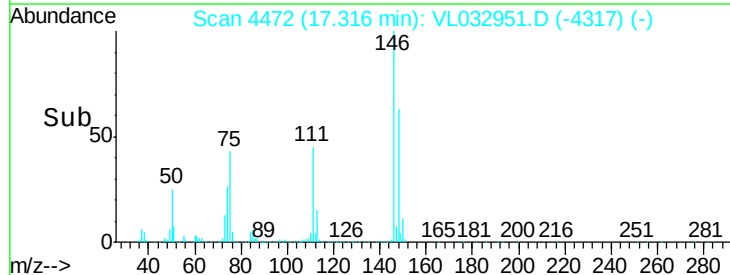
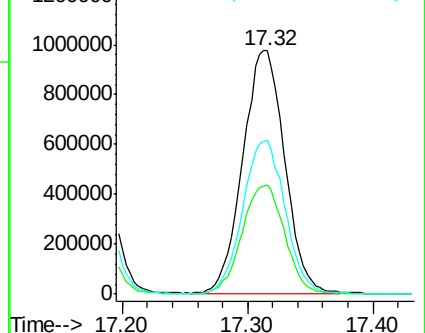
148 64.5 32.0 96.2

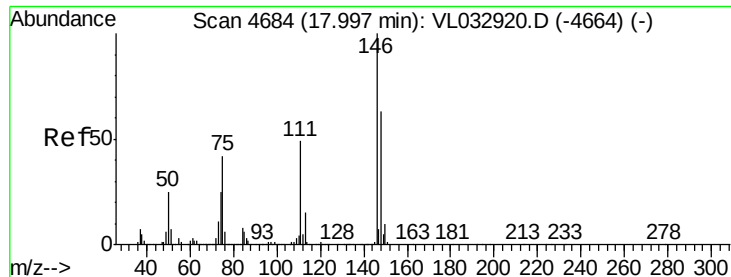


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





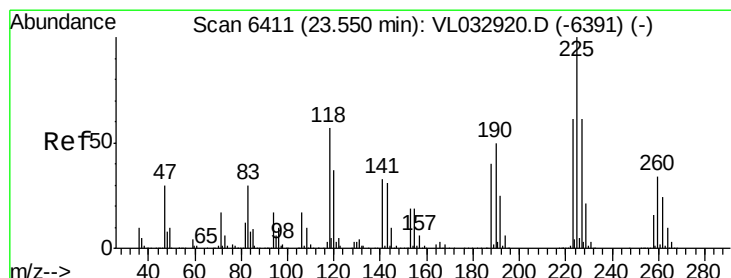
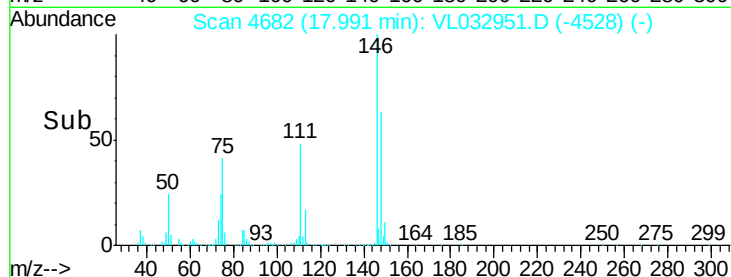
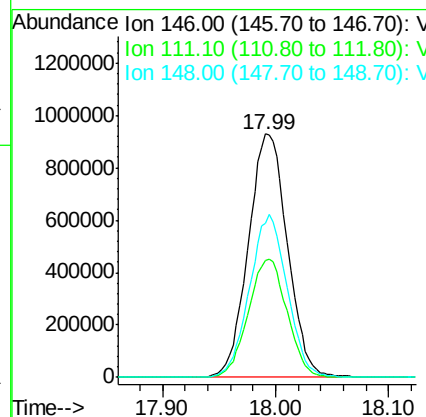
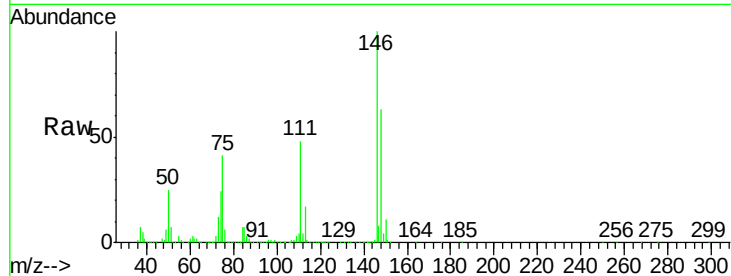
#77
 1,2-Dichlorobenzene
 Concen: 9.586 ppbv
 RT: 17.99 min Scan# 4682
 Delta R.T. -0.01 min
 Lab File: VL032951.D
 Acq: 8 Dec 2018 2:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion:146 Resp: 2229567
 Ion Ratio Lower Upper
 146 100
 111 48.4 24.3 72.9
 148 64.6 32.0 96.2

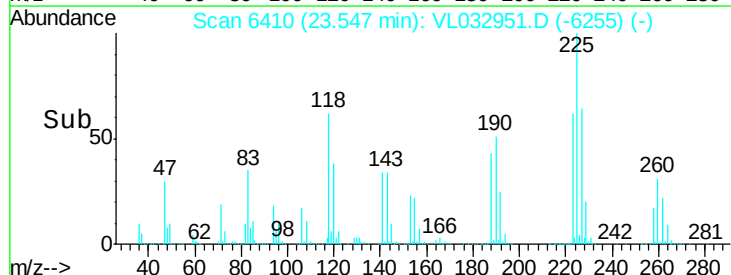
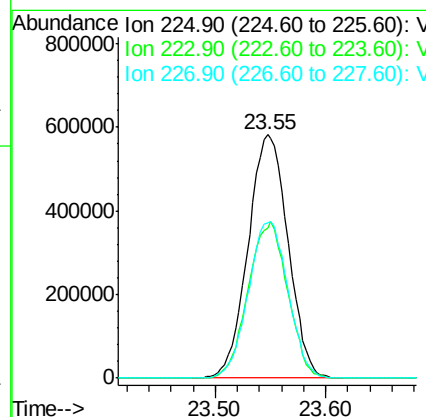
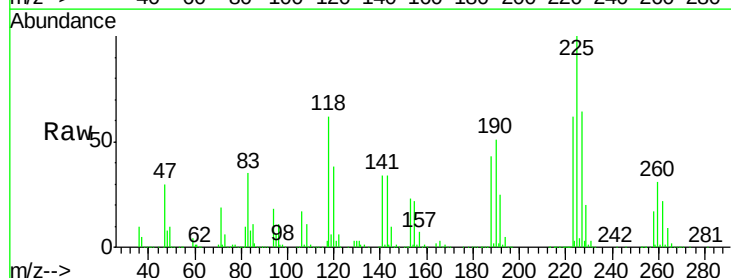
Manual Integrations
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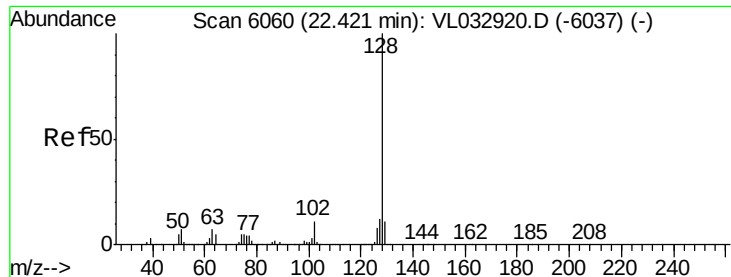
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#78
 Hexachloro-1,3-Butadiene
 Concen: 11.396 ppbv
 RT: 23.55 min Scan# 6410
 Delta R.T. -0.00 min
 Lab File: VL032951.D
 Acq: 8 Dec 2018 2:24

Tgt Ion:225 Resp: 1457644
 Ion Ratio Lower Upper
 225 100
 223 63.6 50.6 75.8
 227 64.1 50.4 75.6





#79

Naphthalene

Concen: 11.791 ppbv

RT: 22.42 min Scan# 6059

Delta R.T. -0.00 min

Lab File: VL032951.D

Acq: 8 Dec 2018 2:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion:128 Resp: 3219979

Ion Ratio Lower Upper

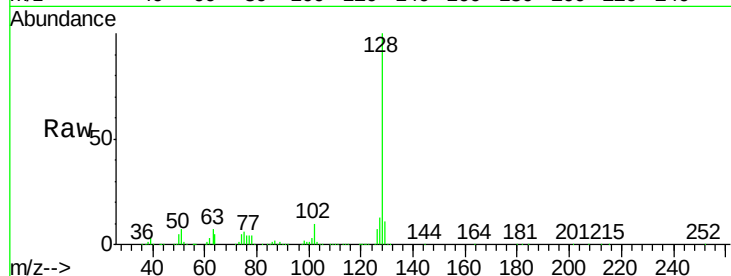
128 100

127 13.4 9.9 14.9

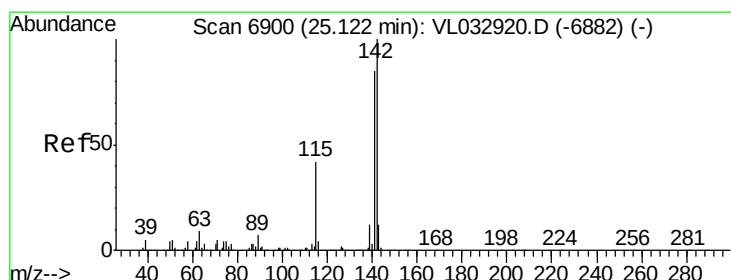
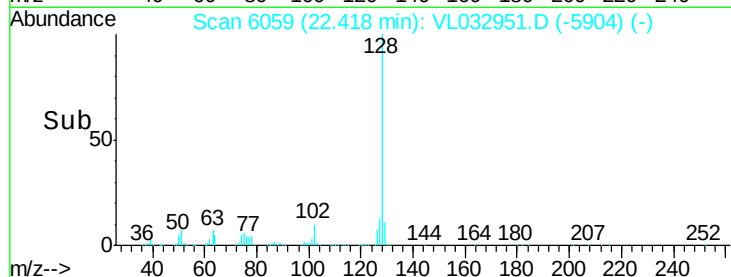
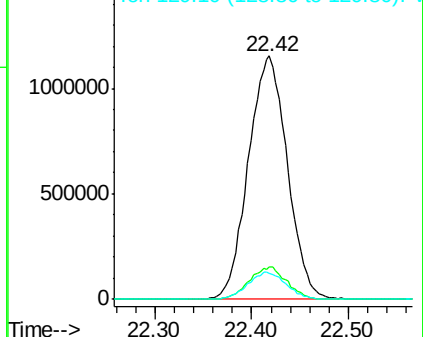
129 10.8 8.6 13.0

Manual Integrations
APPROVED

MMDadoda
12/11/2018 10:09:51 AM



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



#80

Naphthalene, 2-methyl-

Concen: 15.916 ppbv

RT: 25.12 min Scan# 6899

Delta R.T. -0.00 min

Lab File: VL032951.D

Acq: 8 Dec 2018 2:24

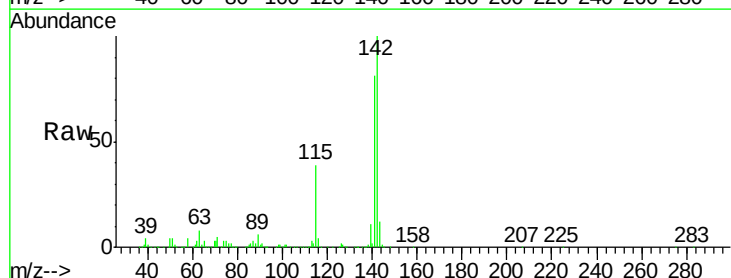
Tgt Ion:142 Resp: 928649

Ion Ratio Lower Upper

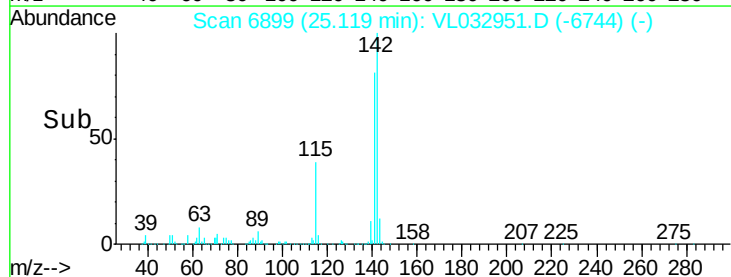
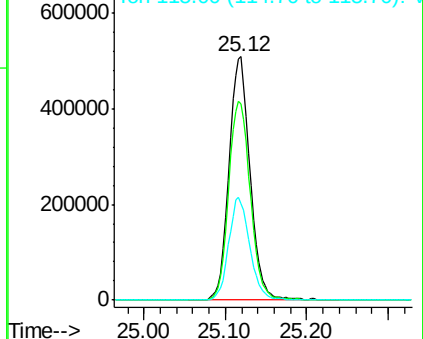
142 100

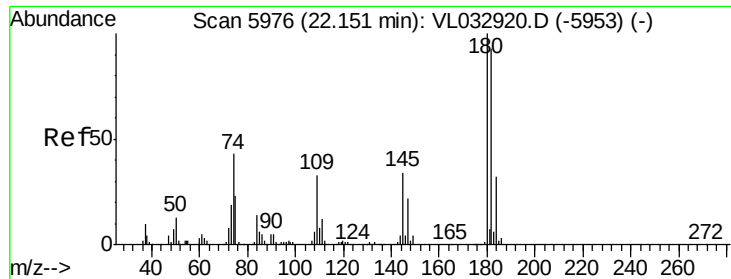
141 84.3 68.2 102.2

115 42.3 35.1 52.7



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 10.955 ppbv
 RT: 22.14 min Scan# 5972
 Delta R.T. -0.01 min
 Lab File: VL032951.D
 Acq: 8 Dec 2018 2:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.8	77.0	115.6
184	30.6	24.3	36.5

Manual Integrations
 APPROVED

MMDadoda
 12/11/2018 10:09:51 AM

