

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070518\
 Data File : VL032226.D
 Acq On : 6 Jul 2018 9:34
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 7/9/2018 10:48:02 AM

Quant Time: Jul 06 12:55:35 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062918AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 2
 QLast Update : Fri Jun 29 22:27:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.84	49	1634691	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.38	114	4134837	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.34	117	3957301m	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.68	95	3187750	10.54	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.13	85	2223119	10.33	ppbv	99
3) Chlorodifluoromethane	3.06	51	2104215	10.54	ppbv	96
4) Chloromethane	3.23	50	1258088	11.80	ppbv	96
5) Vinyl Chloride	3.35	62	1213012	11.26	ppbv	97
6) Bromomethane	3.58	94	658114	10.73	ppbv	97
7) Chloroethane	3.66	64	421705	11.07	ppbv	98
8) Dichlorotetrafluoroethane	3.28	85	2510786	10.45	ppbv	90
9) Propene	3.09	41	1000826	10.75	ppbv	98
10) Heptane	8.34	43	3176439	11.70	ppbv	99
11) Trichlorofluoromethane	4.07	101	2348961	10.09	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.62	101	1427744	9.21	ppbv	90
13) Ethanol	3.71	45	238010	8.43	ppbv	98
14) Bromoethene	3.85	108	709693	9.62	ppbv	99
15) Acetone	3.96	43	1779139	9.31	ppbv	99
16) 1,3-Butadiene	3.42	39	1120703	12.29	ppbv	86
17) tert-Butyl alcohol	4.42	59	1535307	12.61	ppbv	99
18) 1,1-Dichloroethene	4.42	96	695539	9.37	ppbv	94
19) Isopropyl Alcohol	4.09	45	1446329	9.11	ppbv #	42
20) Methylene Chloride	4.48	84	614360	8.80	ppbv	98
21) Allyl Chloride	4.55	41	1212965	9.29	ppbv	99
22) trans-1,2-Dichloroethene	5.04	96	726063	9.36	ppbv	98
23) Vinyl Acetate	5.23	43	3488718	10.06	ppbv	98
24) 1,1-Dichloroethane	5.17	63	2354738	10.60	ppbv	98
25) Ethyl Acetate	5.85	43	3888402	9.83	ppbv	100
26) Hexane	5.86	57	1792422	9.84	ppbv	97
27) Carbon Disulfide	4.69	76	1750226	9.67	ppbv	100
28) Methyl tert-Butyl Ether	5.19	73	3073132	9.55	ppbv	99
29) Chloroform	5.93	83	2741352	10.34	ppbv	100
30) Cyclohexane	7.34	84	1812436	10.56	ppbv	95
31) cis-1,2-Dichloroethene	5.72	61	1916653	10.53	ppbv	90
32) 1,1,1-Trichloroethane	6.71	97	3027169	10.89	ppbv	97
34) 2-Butanone	5.41	43	2742045	10.45	ppbv	98
35) Carbon Tetrachloride	7.22	117	3025168	10.69	ppbv	99
36) Benzene	7.10	78	4411135	11.02	ppbv	98
37) 1,2-Dichloroethane	6.50	62	2387071	11.97	ppbv #	96
38) Trichloroethene	8.05	130	1425209	9.12	ppbv	94
39) 1,2-Dichloropropane	7.83	63	1757731	11.14	ppbv	98
40) 1,4-Dioxane	8.04	88	550956	8.90	ppbv #	1
41) Tetrahydrofuran	6.23	42	1683658	10.70	ppbv	99
42) Bromodichloromethane	8.01	83	3382477	10.82	ppbv	98
43) Methyl Methacrylate	8.22	69	1934470	11.66	ppbv	98

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 ClientSampleId :
 VSTDCCC010EC

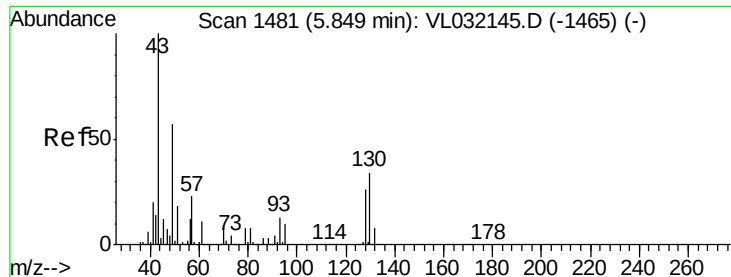
Manual Integrations
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Quant Time: Jul 06 12:55:35 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062918AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 2
 QLast Update : Fri Jun 29 22:27:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.08	57	7805791	11.15	ppbv	99
45) t-1,3-Dichloropropene	9.51	75	2380898	11.58	ppbv	99
46) cis-1,3-Dichloropropene	8.93	75	2643807	10.77	ppbv	98
47) 1,1,2-Trichloroethane	9.71	97	1747946	10.65	ppbv	96
48) Dibromochloromethane	10.55	129	2810601	11.07	ppbv	100
49) Bromoform	13.31	173	2126126	10.00	ppbv	100
50) 4-Methyl-2-Pentanone	8.96	43	4512924	10.50	ppbv	99
51) 2-Hexanone	10.36	43	3812207	10.70	ppbv #	99
52) Tetrachloroethene	11.47	164	1337745	9.19	ppbv	96
53) Toluene	10.04	91	5111341	10.57	ppbv	99
54) 1,2-Dibromoethane	10.86	107	2713435	11.00	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.38	131	1945995	11.01	ppbv #	61
57) Chlorobenzene	12.40	112	3623786	10.57	ppbv	95
58) Ethyl Benzene	12.96	91	6941787	10.88	ppbv	96
59) m/p-Xylene	13.25	91	11268953m	22.04	ppbv	
60) o-Xylene	13.95	91	5344569	10.48	ppbv	95
61) Styrene	13.78	104	4388103	10.50	ppbv	93
62) Isopropylbenzene	14.93	105	7431719	9.48	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.94	83	3738749	9.47	ppbv	100
64) n-propylbenzene	15.82	120	1902857	9.38	ppbv	85
65) tert-Butylbenzene	17.01	119	5896891	8.56	ppbv	92
66) Benzyl Chloride	17.26	91	3337516	7.84	ppbv	93
67) sec-Butylbenzene	17.56	105	8852657	8.78	ppbv	98
69) p-Isopropyltoluene	17.91	119	7009812	8.66	ppbv	96
70) n-Butylbenzene	18.81	91	7734912	9.15	ppbv	98
71) 2-Chlorotoluene	15.72	91	5869299	9.72	ppbv	94
72) 4-Ethyltoluene	16.10	105	6139157	9.32	ppbv	97
73) 1,3,5-Trimethylbenzene	16.25	105	5803946	9.36	ppbv	94
74) 1,2,4-Trimethylbenzene	17.03	105	5540433	8.85	ppbv	94
75) 1,3-Dichlorobenzene	17.27	146	2934874	8.24	ppbv	96
76) 1,4-Dichlorobenzene	17.41	146	3009484	8.33	ppbv	97
77) 1,2-Dichlorobenzene	18.09	146	2878700	8.09	ppbv	97
78) Hexachloro-1,3-Butadiene	23.64	225	1591003	12.84	ppbv	99
79) Naphthalene	22.53	128	4410749	7.75	ppbv	99
80) Naphthalene, 2-methyl-	25.19	142	2262161	11.01	ppbv	96
81) 1,2,4-Trichlorobenzene	22.25	180	2068519	8.05	ppbv	100

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



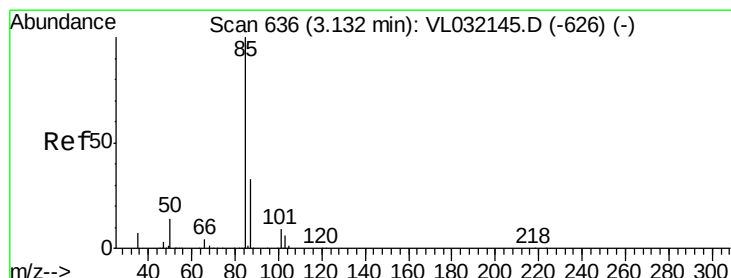
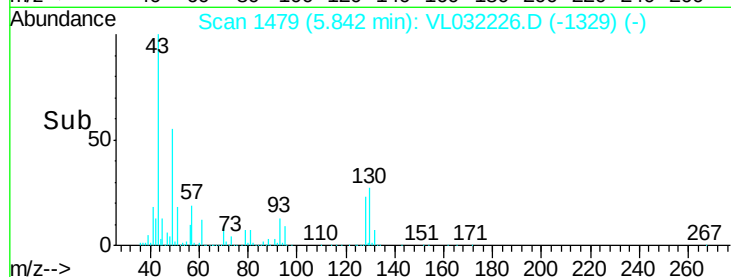
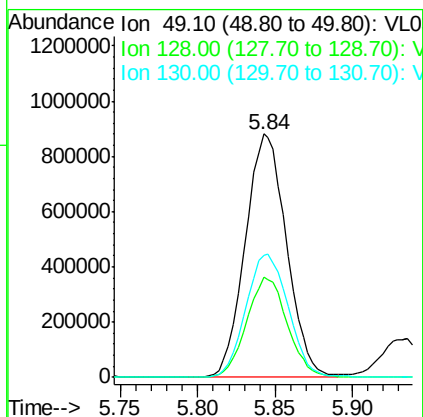
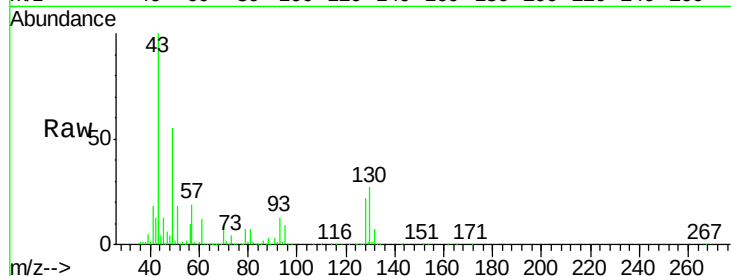
#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 5.84 min Scan# 1479
Delta R.T. -0.02 min
Lab File: VL032226.D
Acq: 6 Jul 2018 9:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
49	100		
128	40.8	23.4	70.0
130	52.4	30.3	90.9

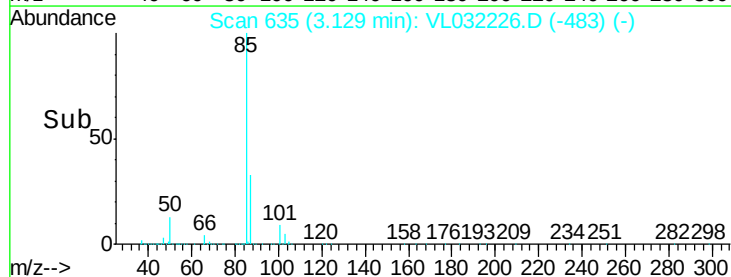
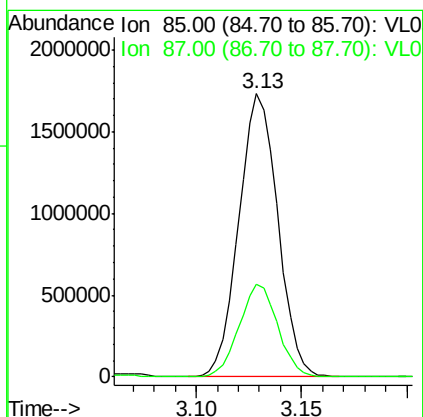
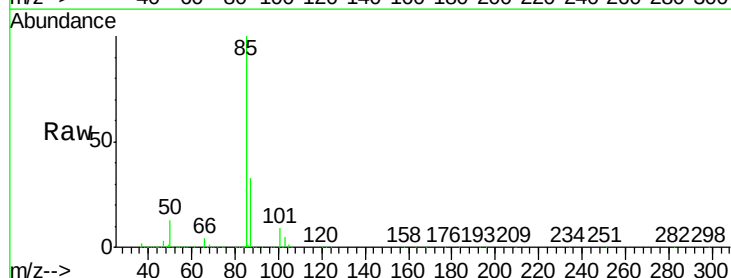
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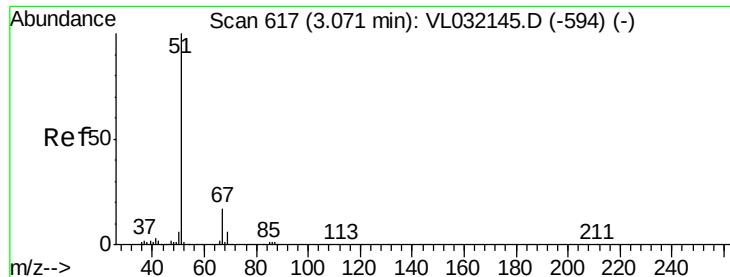
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#2
Dichlorodifluoromethane
Concen: 10.33 ppbv
RT: 3.13 min Scan# 635
Delta R.T. -0.01 min
Lab File: VL032226.D
Acq: 6 Jul 2018 9:34

Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.8	26.7	40.1





#3

Chlorodifluoromethane

Concen: 10.54 ppbv

RT: 3.06 min Scan# 615

Delta R.T. -0.01 min

Lab File: VL032226.D

Acq: 6 Jul 2018 9:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 51 Resp: 2104215

Ion Ratio Lower Upper

51 100

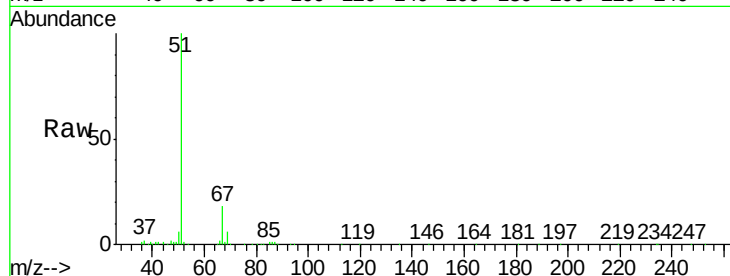
67 18.3 13.2 19.8

Manual Integrations

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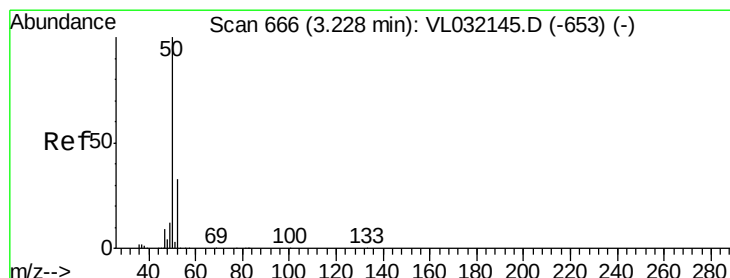
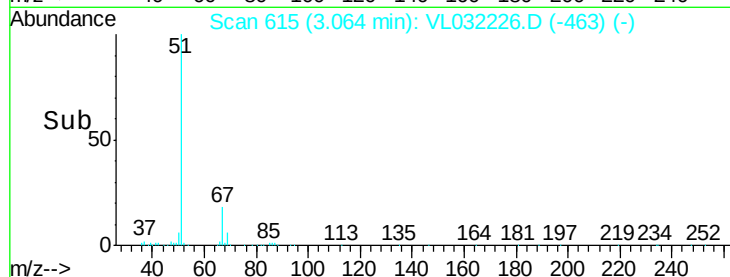
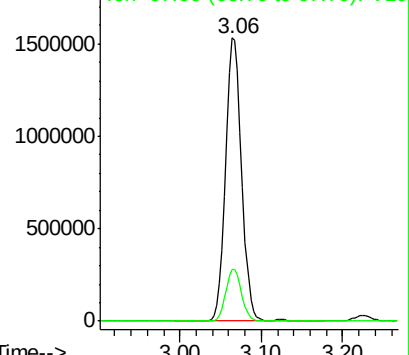
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 11.80 ppbv

RT: 3.23 min Scan# 665

Delta R.T. -0.01 min

Lab File: VL032226.D

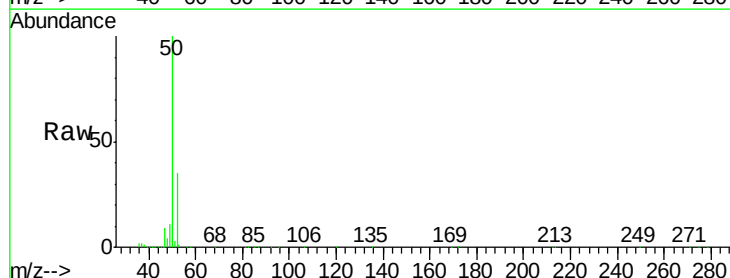
Acq: 6 Jul 2018 9:34

Tgt Ion: 50 Resp: 1258088

Ion Ratio Lower Upper

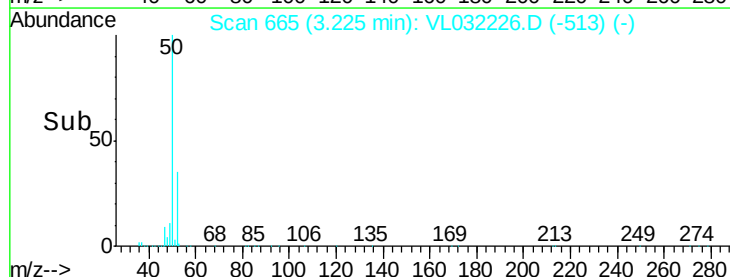
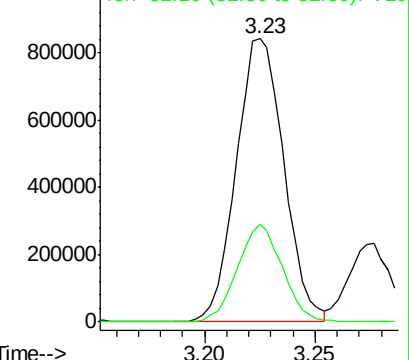
50 100

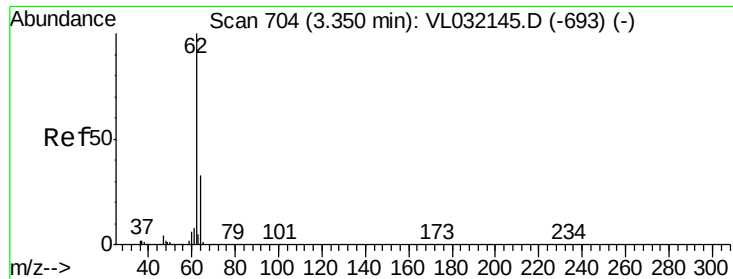
52 34.8 26.0 39.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 11.26 ppbv

RT: 3.35 min Scan# 703

Delta R.T. -0.01 min

Lab File: VL032226.D

Acq: 6 Jul 2018 9:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 1213012

Ion Ratio Lower Upper

62 100

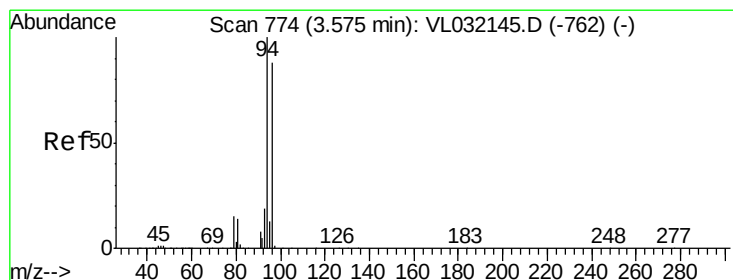
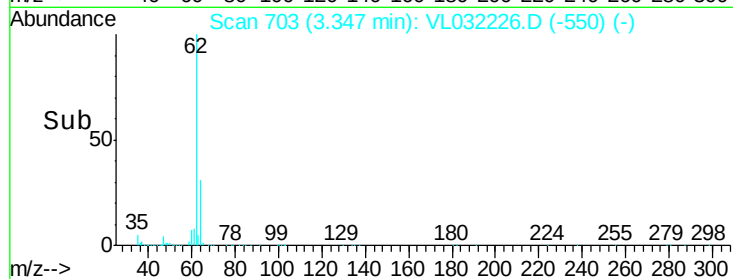
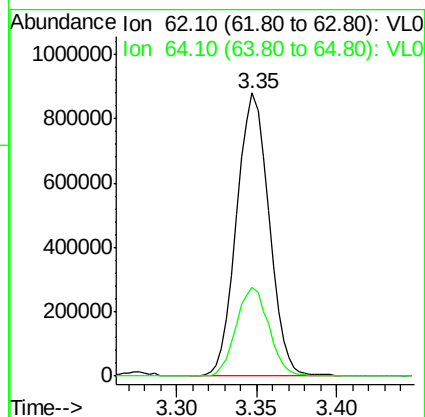
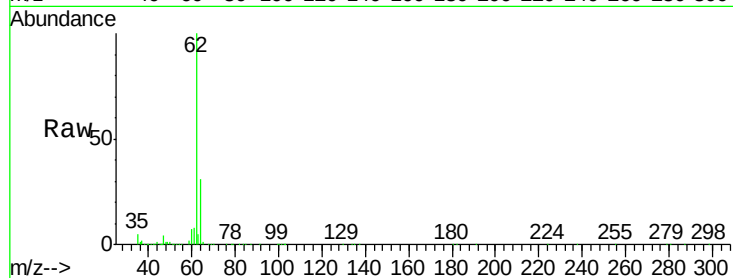
64 31.2 26.1 39.1

Manual Integrations

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#6

Bromomethane

Concen: 10.73 ppbv

RT: 3.58 min Scan# 774

Delta R.T. -0.01 min

Lab File: VL032226.D

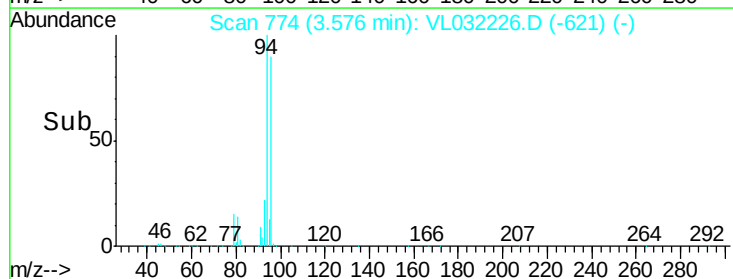
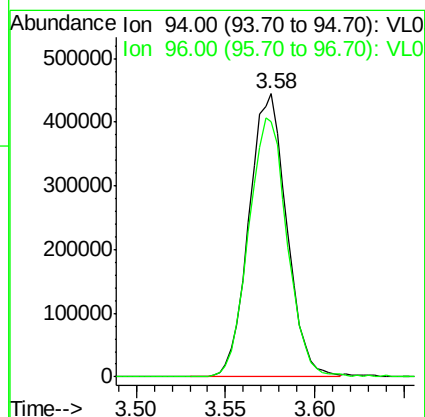
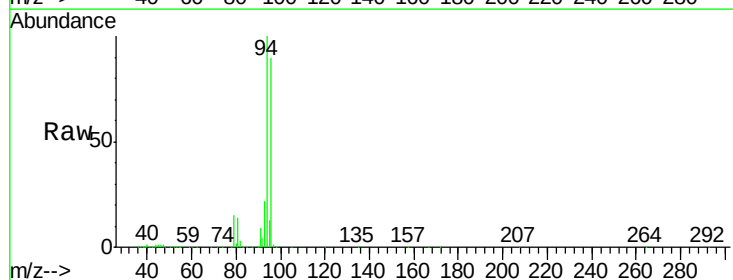
Acq: 6 Jul 2018 9:34

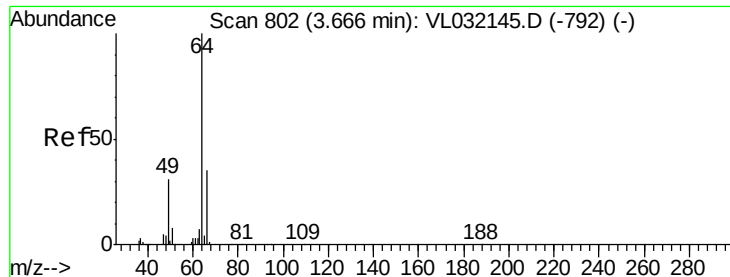
Tgt Ion: 94 Resp: 658114

Ion Ratio Lower Upper

94 100

96 90.3 74.7 112.1





#7

Chloroethane

Concen: 11.07 ppbv

RT: 3.66 min Scan# 800

Delta R.T. -0.01 min

Lab File: VL032226.D

Acq: 6 Jul 2018 9:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 421705

Ion Ratio Lower Upper

64 100

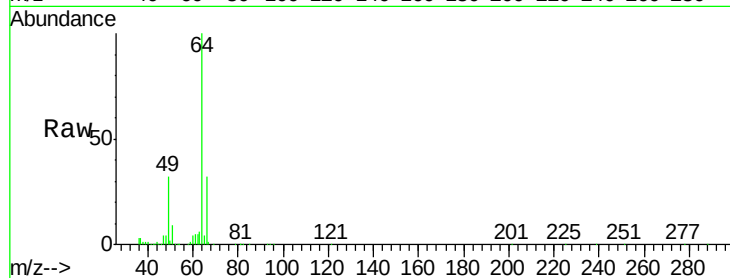
66 32.4 26.9 40.3

Manual Integrations

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7/9/2018 10:48:02 AM



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.66

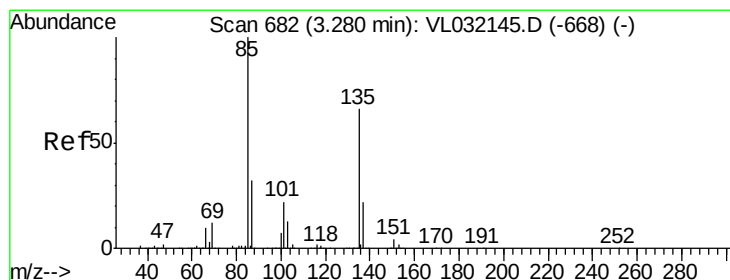
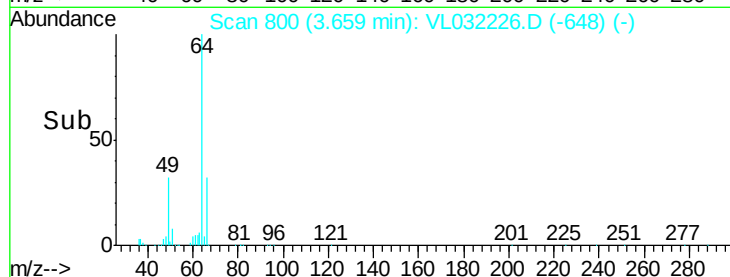
300000

200000

100000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 10.45 ppbv

RT: 3.28 min Scan# 681

Delta R.T. -0.01 min

Lab File: VL032226.D

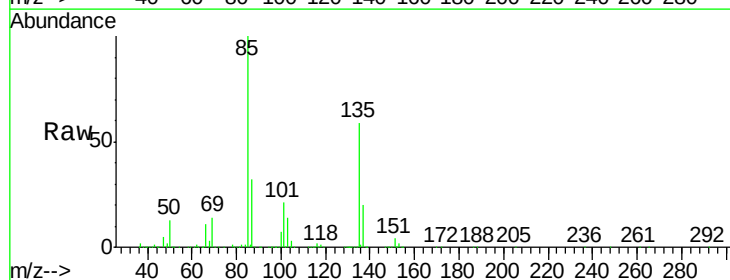
Acq: 6 Jul 2018 9:34

Tgt Ion: 85 Resp: 2510786

Ion Ratio Lower Upper

85 100

135 60.1 54.6 82.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.28

2000000

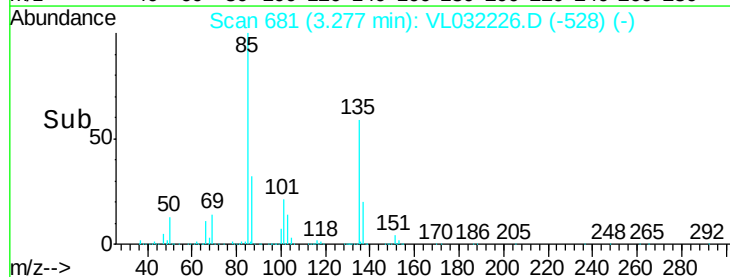
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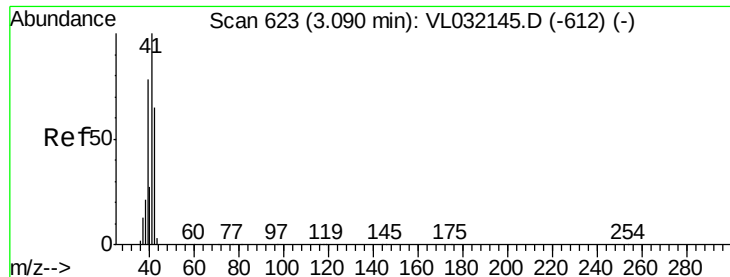
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500000

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Time-->





#9

Propene

Concen: 10.75 ppbv

RT: 3.09 min Scan# 622

Delta R.T. -0.01 min

Lab File: VL032226.D

Acq: 6 Jul 2018 9:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 1000826

Ion Ratio Lower Upper

41 100

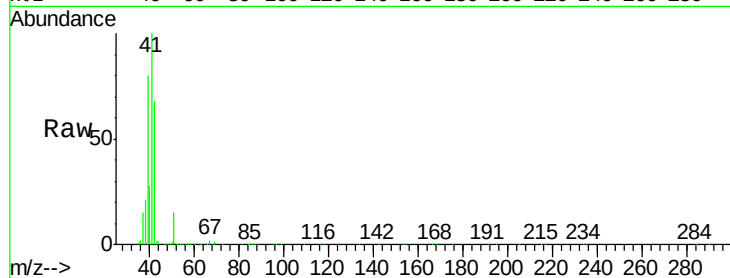
42 68.9 56.2 84.4

Manual Integrations

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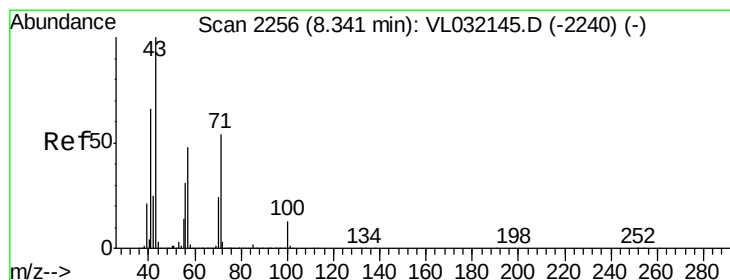
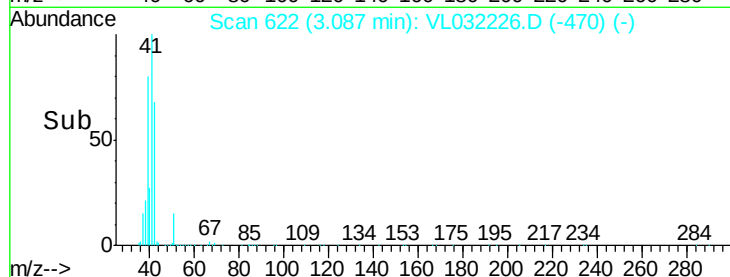
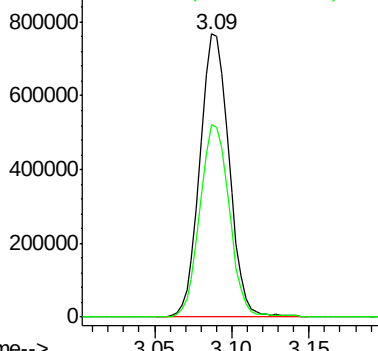
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7/9/2018 10:48:02 AM



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 11.70 ppbv

RT: 8.34 min Scan# 2255

Delta R.T. -0.02 min

Lab File: VL032226.D

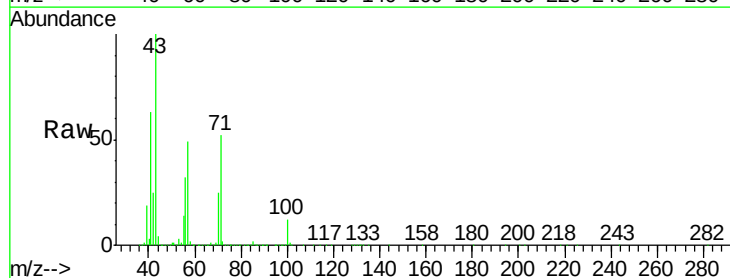
Acq: 6 Jul 2018 9:34

Tgt Ion: 43 Resp: 3176439

Ion Ratio Lower Upper

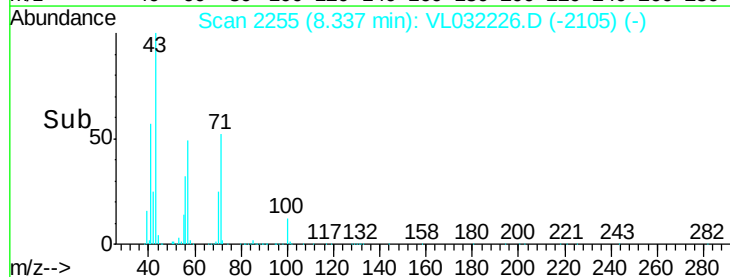
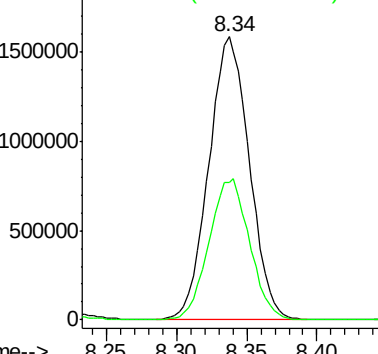
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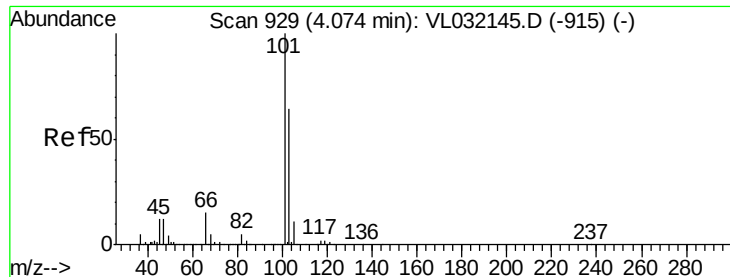
57 50.2 39.8 59.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





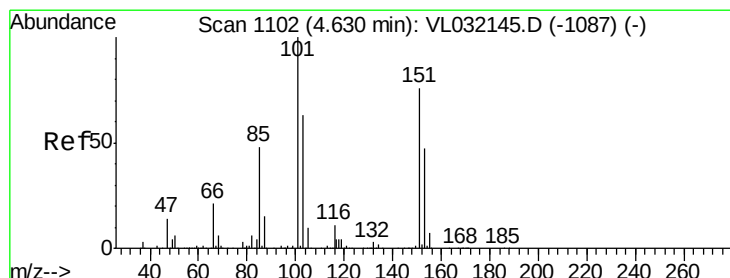
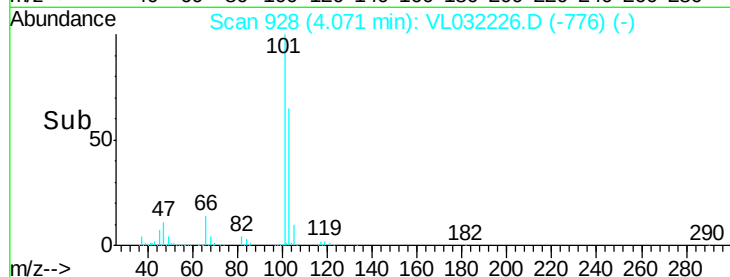
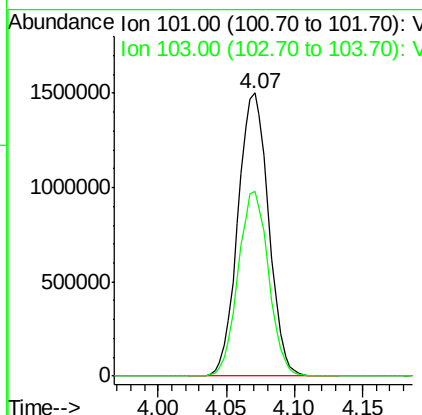
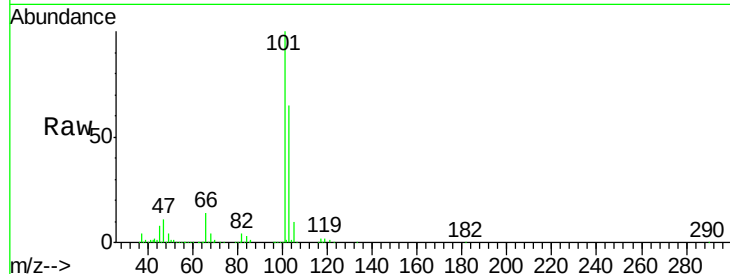
#11
 Trichlorofluoromethane
 Concen: 10.09 ppbv
 RT: 4.07 min Scan# 928
 Delta R.T. -0.01 min
 Lab File: VL032226.D
 Acq: 6 Jul 2018 9:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:101 Resp: 2348961
 Ion Ratio Lower Upper
 101 100
 103 65.2 51.4 77.0

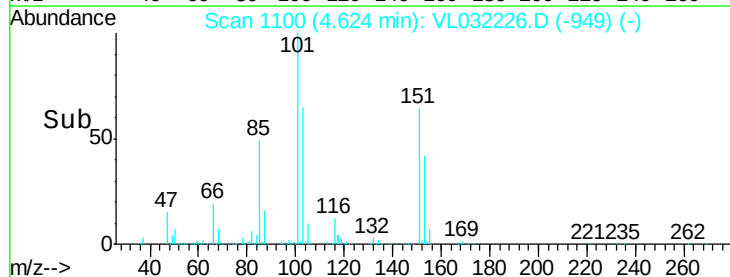
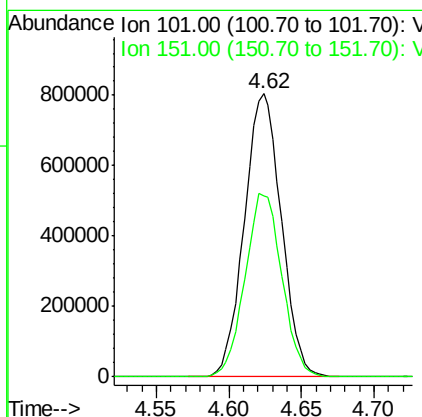
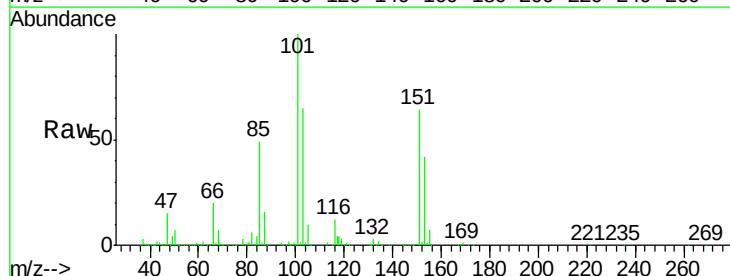
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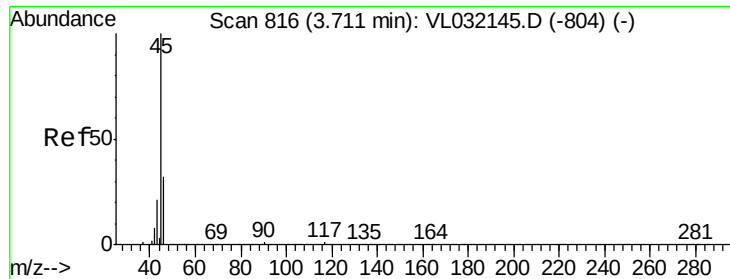
MMDadoda
 7/9/2018 10:48:02 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.21 ppbv
 RT: 4.62 min Scan# 1100
 Delta R.T. -0.02 min
 Lab File: VL032226.D
 Acq: 6 Jul 2018 9:34

Tgt Ion:101 Resp: 1427744
 Ion Ratio Lower Upper
 101 100
 151 64.7 58.8 88.2





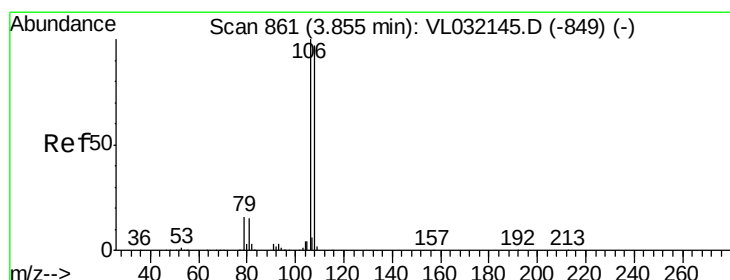
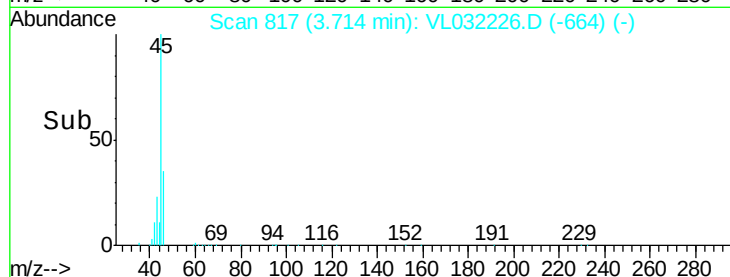
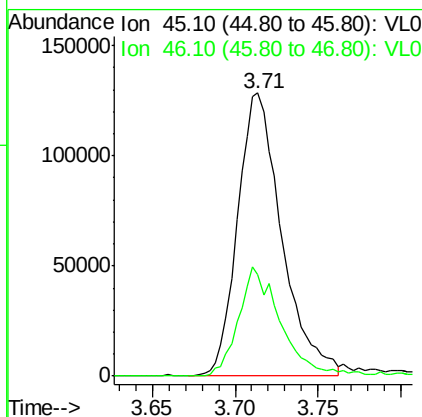
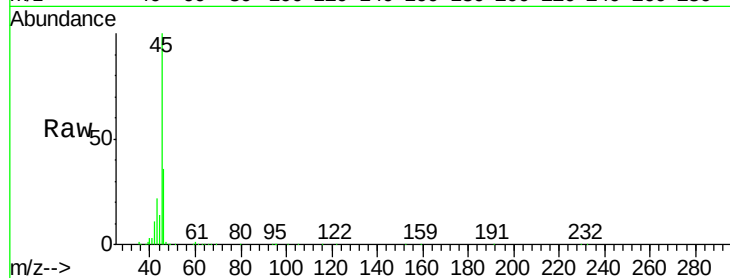
#13
Ethanol
Concen: 8.43 ppbv
RT: 3.71 min Scan# 817
Delta R.T. -0.01 min
Lab File: VL032226.D
Acq: 6 Jul 2018 9:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
45	100		
46	37.9	14.6	58.4

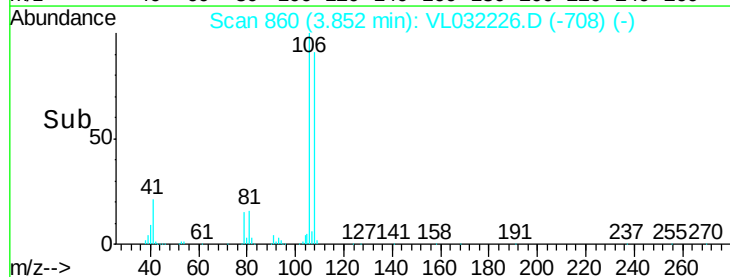
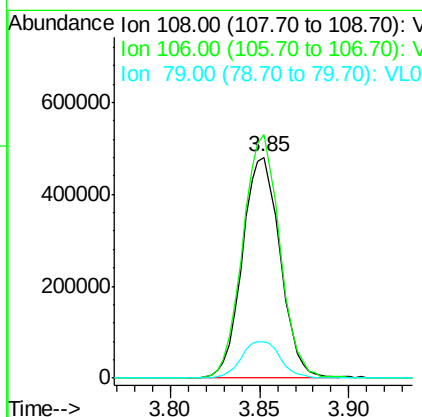
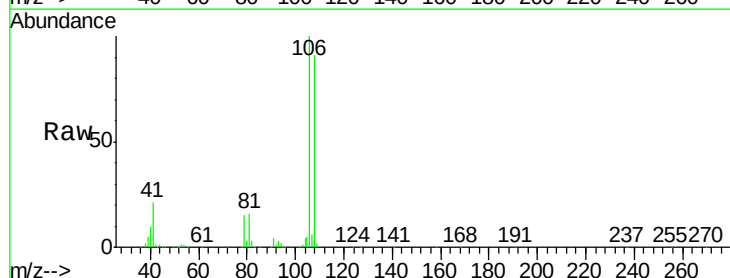
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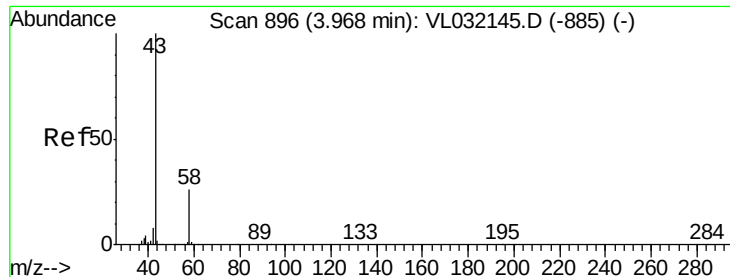
MMDadoda
7/9/2018 10:48:02 AM



#14
Bromoethene
Concen: 9.62 ppbv
RT: 3.85 min Scan# 860
Delta R.T. -0.01 min
Lab File: VL032226.D
Acq: 6 Jul 2018 9:34

Tgt Ion	Ratio	Lower	Upper
108	100		
106	108.8	86.3	129.5
79	17.1	12.7	19.1





#15

Acetone

Concen: 9.31 ppbv

RT: 3.96 min Scan# 895

Delta R.T. -0.01 min

Lab File: VL032226.D

Acq: 6 Jul 2018 9:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1779139

Ion Ratio Lower Upper

43 100

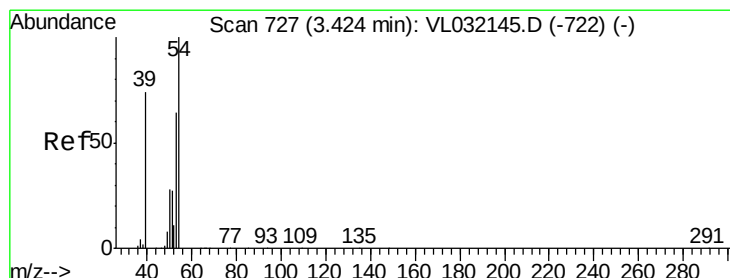
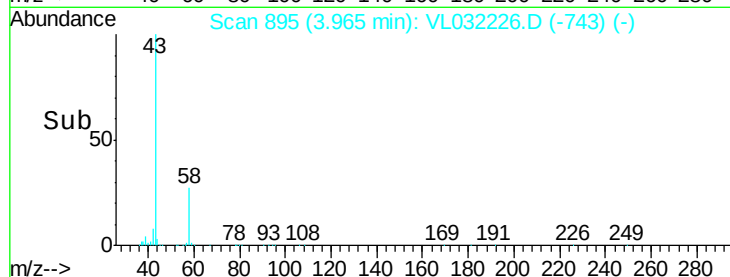
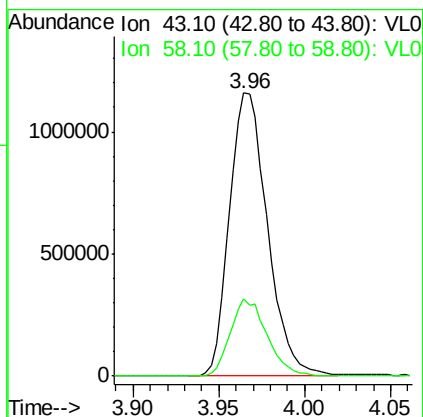
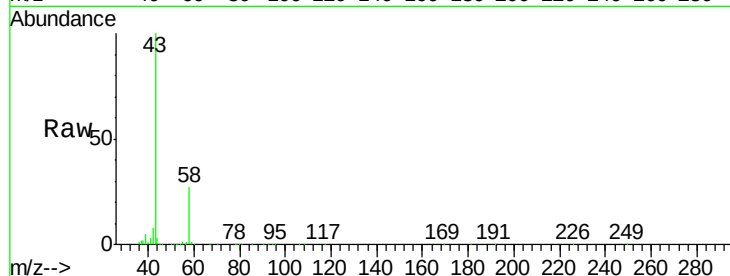
58 26.4 21.4 32.0

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#16

1,3-Butadiene

Concen: 12.29 ppbv

RT: 3.42 min Scan# 726

Delta R.T. -0.01 min

Lab File: VL032226.D

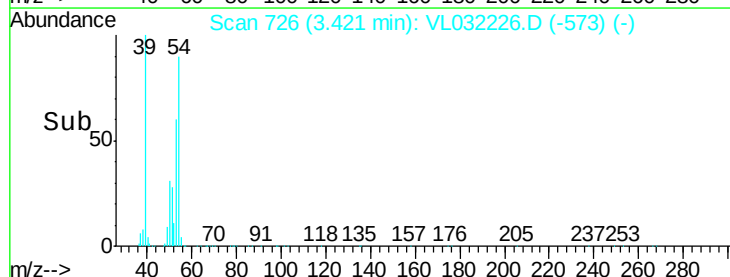
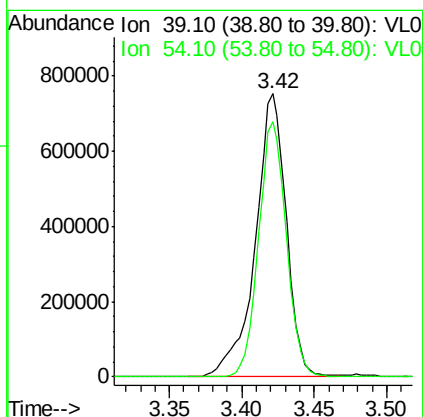
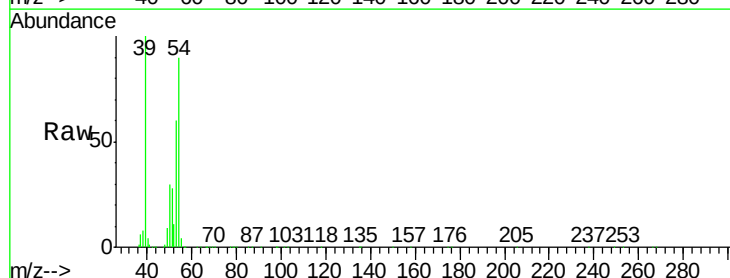
Acq: 6 Jul 2018 9:34

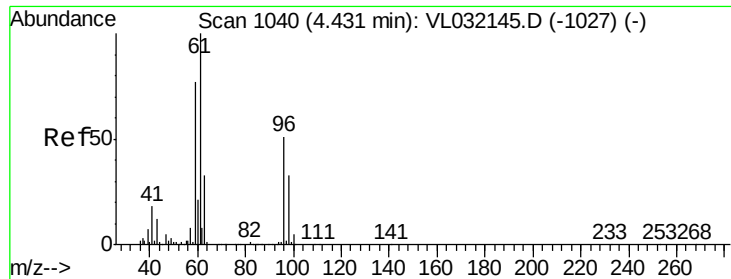
Tgt Ion: 39 Resp: 1120703

Ion Ratio Lower Upper

39 100

54 81.3 75.8 113.6





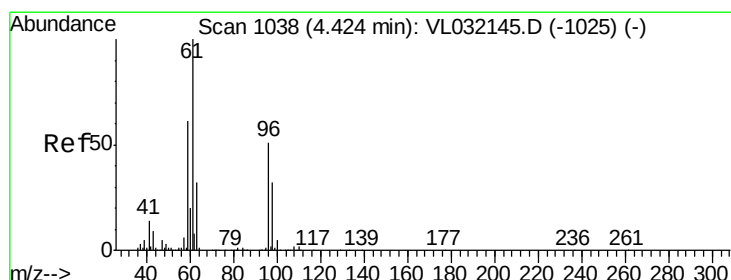
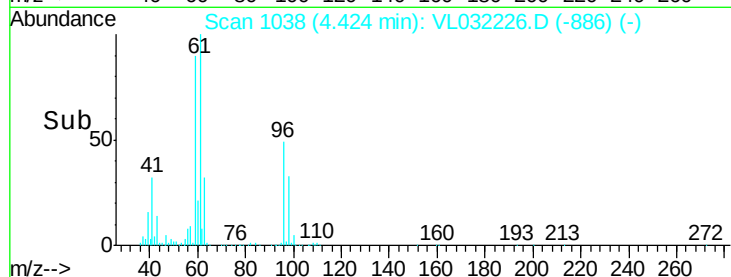
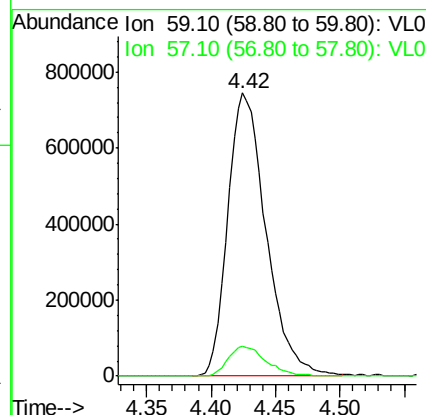
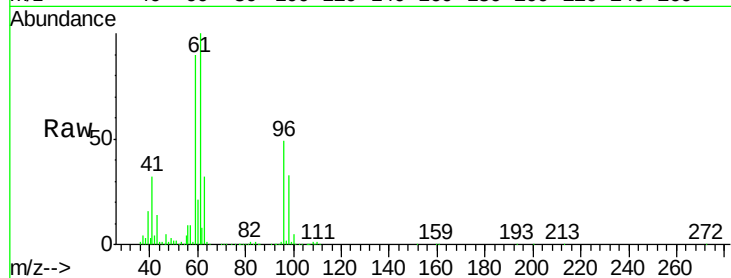
#17
 tert-Butyl alcohol
 Concen: 12.61 ppbv
 RT: 4.42 min Scan# 1038
 Delta R.T. -0.01 min
 Lab File: VL032226.D
 Acq: 6 Jul 2018 9:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 59 Resp: 1535307
 Ion Ratio Lower Upper
 59 100
 57 10.7 8.2 12.2

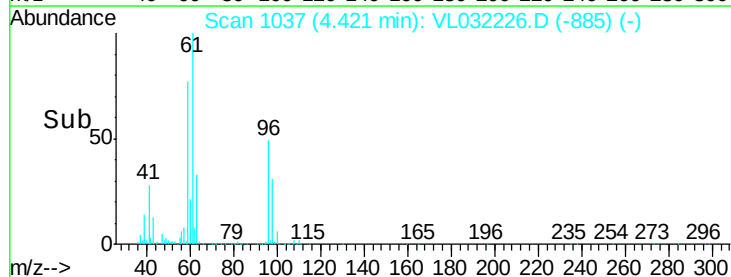
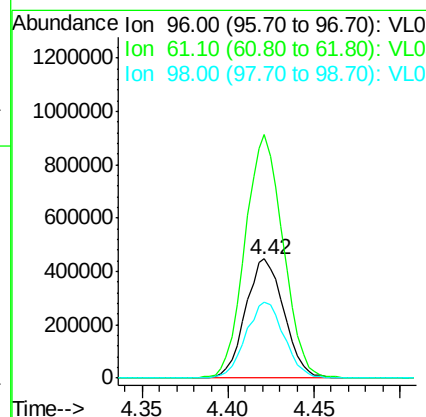
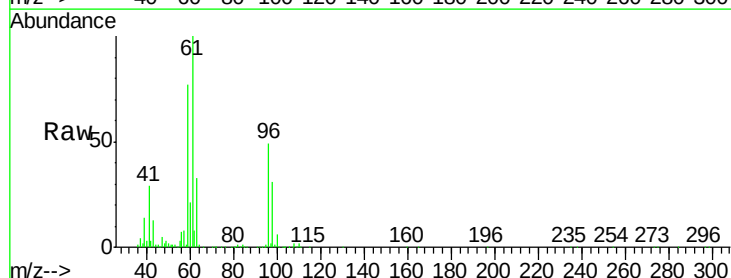
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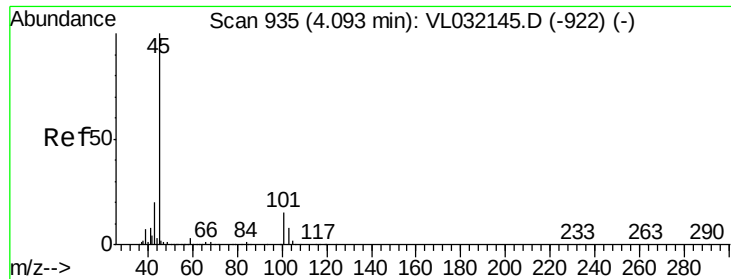
MMDadoda
 7/9/2018 10:48:02 AM



#18
 1,1-Dichloroethene
 Concen: 9.37 ppbv
 RT: 4.42 min Scan# 1037
 Delta R.T. -0.01 min
 Lab File: VL032226.D
 Acq: 6 Jul 2018 9:34

Tgt Ion: 96 Resp: 695539
 Ion Ratio Lower Upper
 96 100
 61 204.6 154.1 231.1
 98 63.9 50.3 75.5





#19

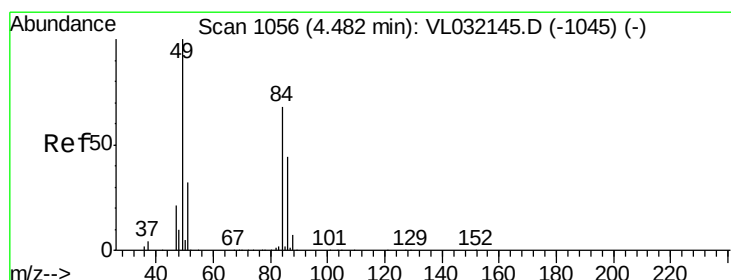
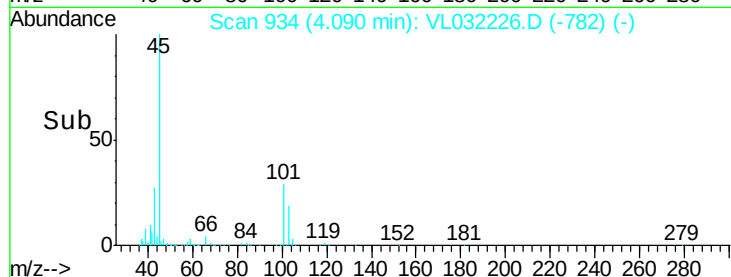
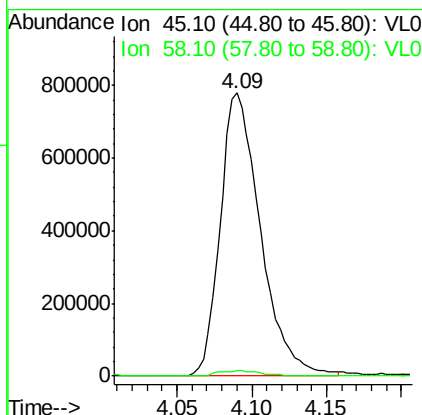
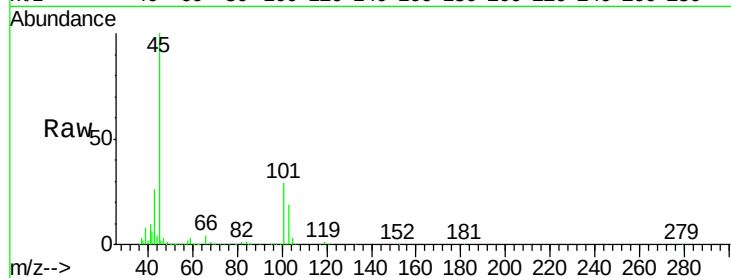
Isopropyl Alcohol
 Concen: 9.11 ppbv
 RT: 4.09 min Scan# 934
 Delta R.T. -0.01 min
 Lab File: VL032226.D
 Acq: 6 Jul 2018 9:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 45 Resp: 1446329
 Ion Ratio Lower Upper
 45 100
 58 2.3 29.4 44.0#

Manual Integrations
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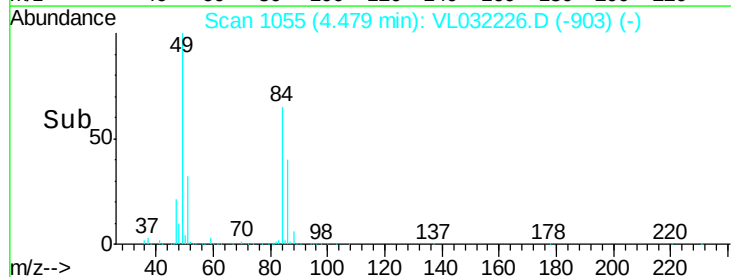
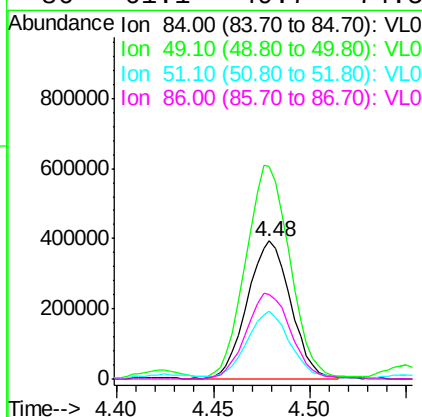
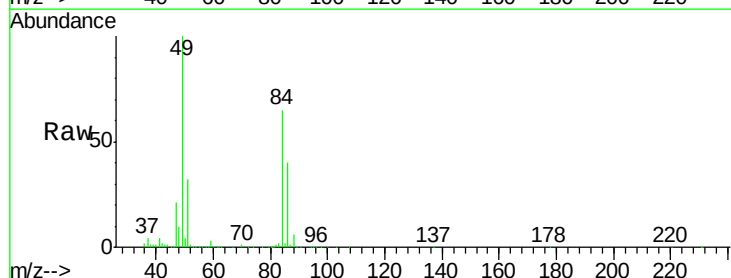
MMDadoda
 7/9/2018 10:48:02 AM

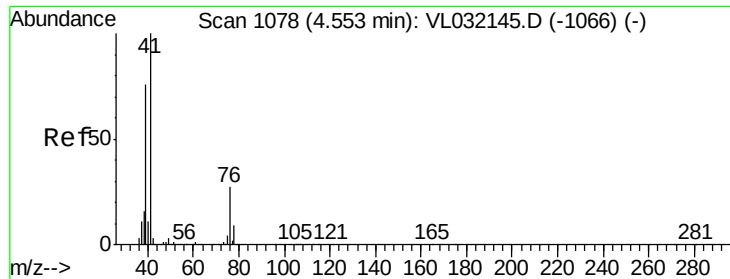


#20

Methylene Chloride
 Concen: 8.80 ppbv
 RT: 4.48 min Scan# 1055
 Delta R.T. -0.01 min
 Lab File: VL032226.D
 Acq: 6 Jul 2018 9:34

Tgt Ion: 84 Resp: 614360
 Ion Ratio Lower Upper
 84 100
 49 152.5 119.6 179.4
 51 48.1 36.3 54.5
 86 61.1 49.7 74.5





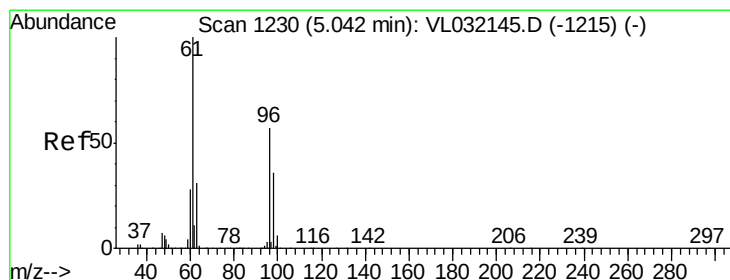
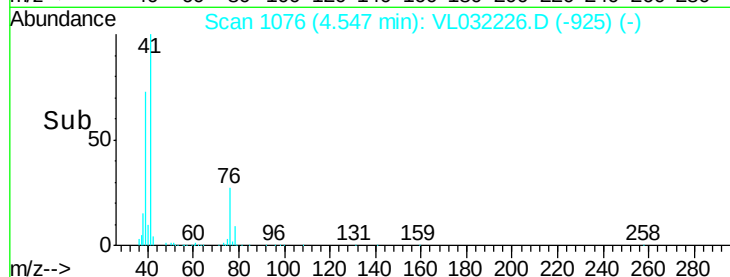
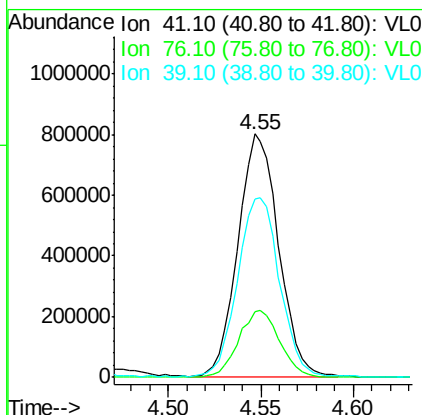
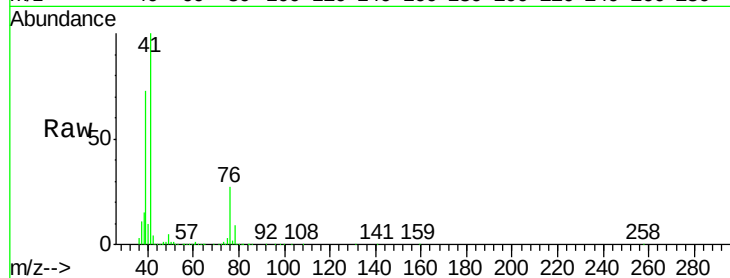
#21
Allvl Chloride
Concen: 9.29 ppbv
RT: 4.55 min Scan# 1076
Delta R.T. -0.02 min
Lab File: VL032226.D
Acq: 6 Jul 2018 9:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
41	100		
76	28.1	22.5	33.7
39	77.1	60.5	90.7

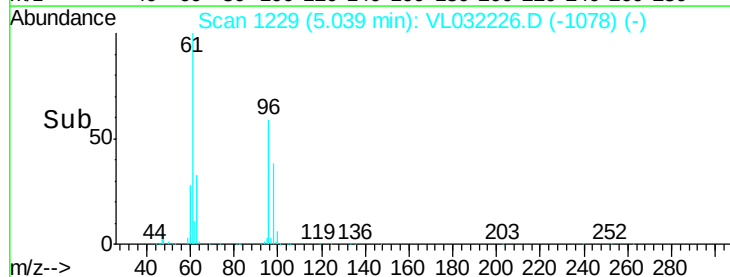
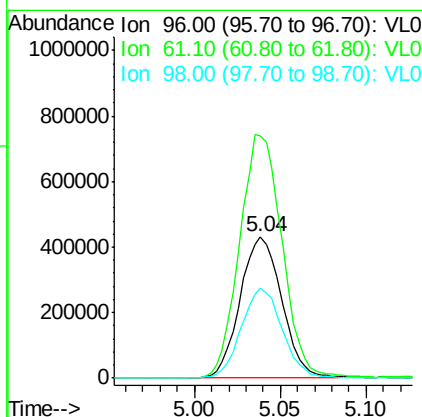
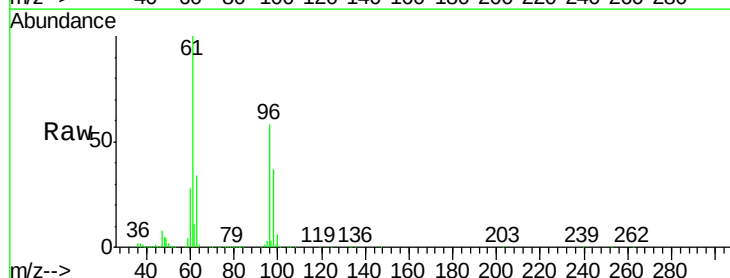
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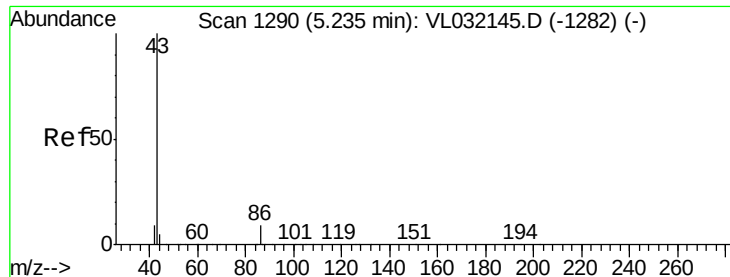
MMDadoda
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#22
trans-1,2-Dichloroethene
Concen: 9.36 ppbv
RT: 5.04 min Scan# 1229
Delta R.T. -0.02 min
Lab File: VL032226.D
Acq: 6 Jul 2018 9:34

Tgt Ion	Ratio	Lower	Upper
96	100		
61	171.2	135.2	202.8
98	63.4	49.7	74.5





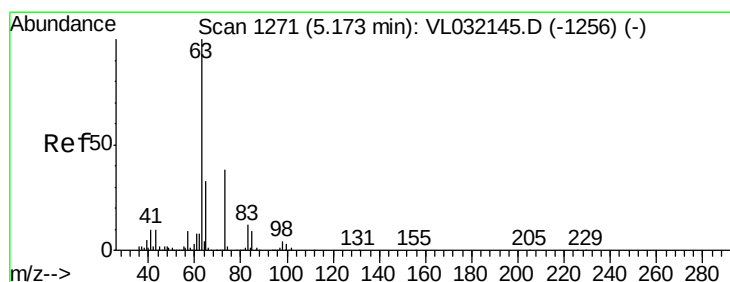
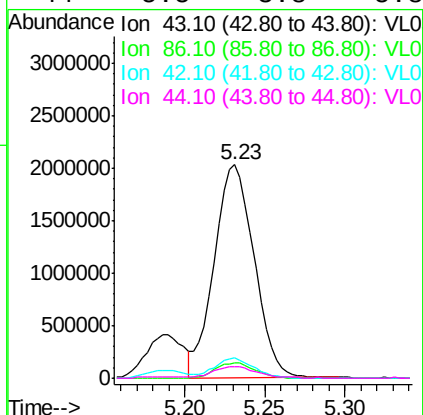
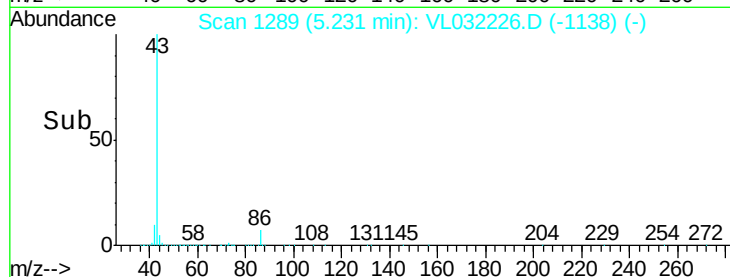
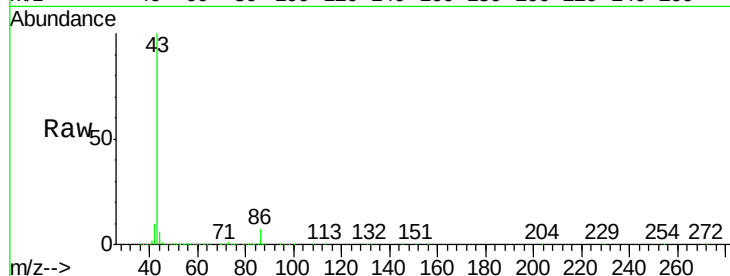
#23
 Vinyl Acetate
 Concen: 10.06 ppbv
 RT: 5.23 min Scan# 1289
 Delta R.T. -0.02 min
 Lab File: VL032226.D
 Acq: 6 Jul 2018 9:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
86	7.3	6.2	9.4	
42	9.6	6.9	10.3	
44	5.5	3.8	5.8	

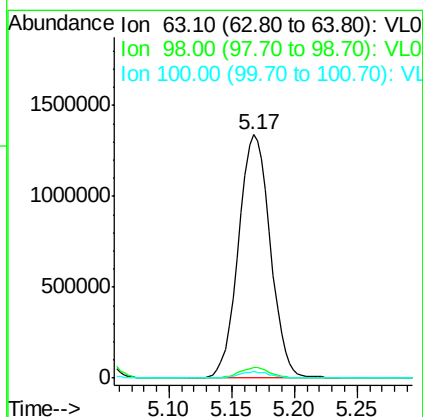
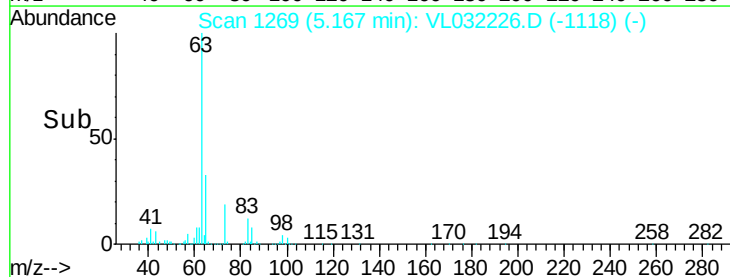
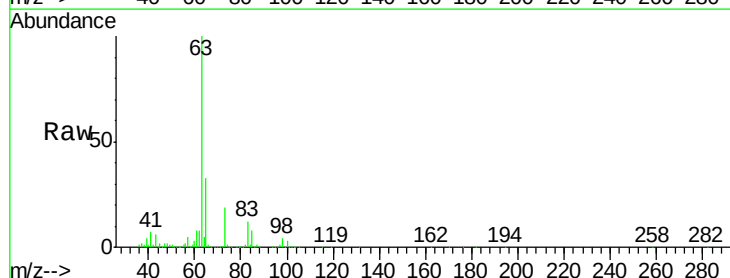
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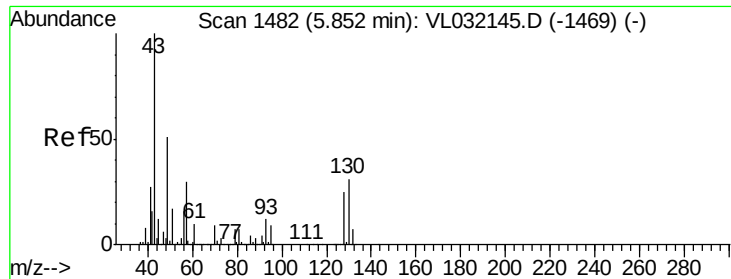
MMDadoda
 7/9/2018 10:48:02 AM



#24
 1,1-Dichloroethane
 Concen: 10.60 ppbv
 RT: 5.17 min Scan# 1269
 Delta R.T. -0.02 min
 Lab File: VL032226.D
 Acq: 6 Jul 2018 9:34

Tgt Ion	Ion	Ratio	Lower	Upper
63	100			
98	4.2	2.4	7.2	
100	2.7	1.7	5.0	





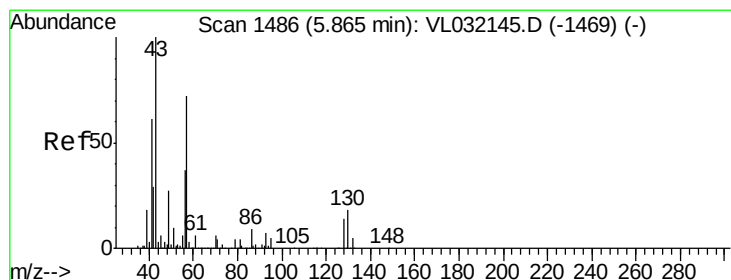
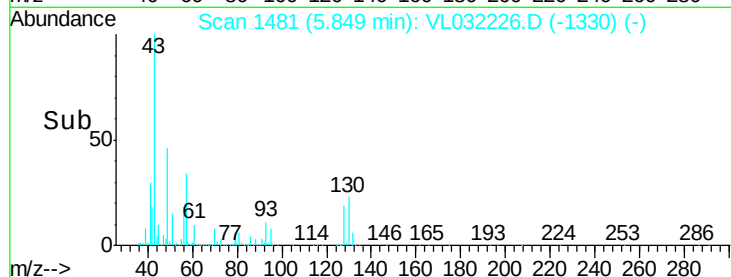
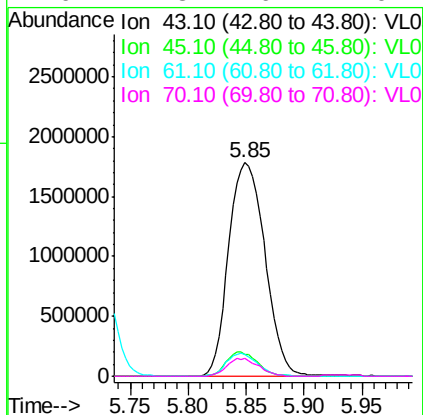
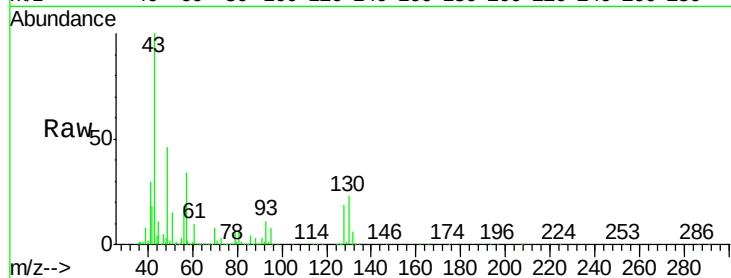
#25
Ethyl Acetate
Concen: 9.83 ppbv
RT: 5.85 min Scan# 1481
Delta R.T. -0.02 min
Lab File: VL032226.D
Acq: 6 Jul 2018 9:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	9.8	7.8	11.8	
61	9.1	7.4	11.0	
70	7.3	6.1	9.1	

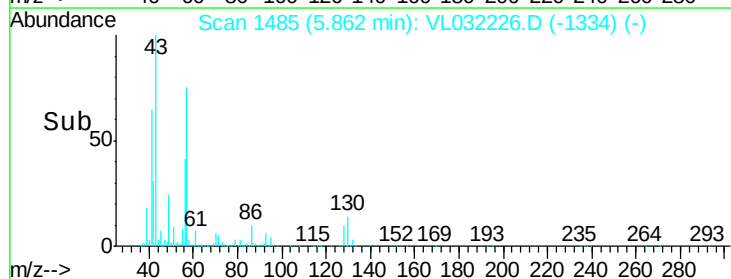
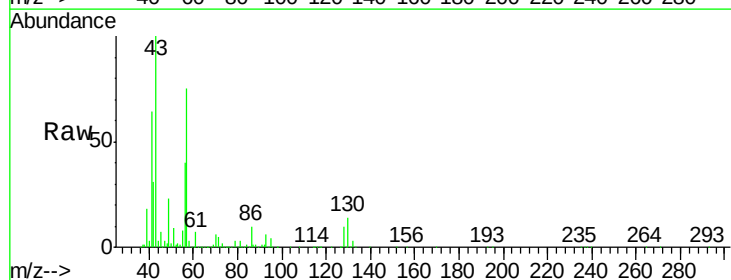
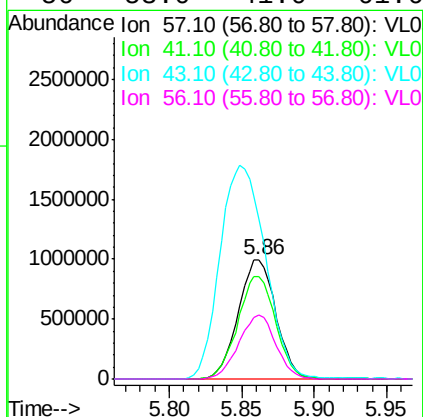
Manual Integrations
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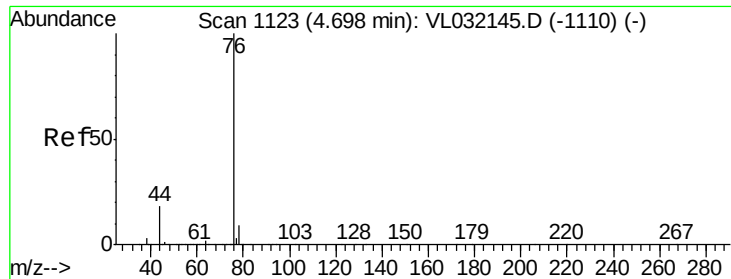
MMDadoda
7/9/2018 10:48:02 AM



#26
Hexane
Concen: 9.84 ppbv
RT: 5.86 min Scan# 1485
Delta R.T. -0.02 min
Lab File: VL032226.D
Acq: 6 Jul 2018 9:34

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	87.3	68.6	103.0	
43	217.1	168.6	252.8	
56	53.0	41.0	61.6	





#27

Carbon Disulfide

Concen: 9.67 ppbv

RT: 4.69 min Scan# 1121

Delta R.T. -0.02 min

Lab File: VL032226.D

Acq: 6 Jul 2018 9:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 76 Resp: 1750226

Ion Ratio Lower Upper

76 100

44 19.0 15.1 22.7

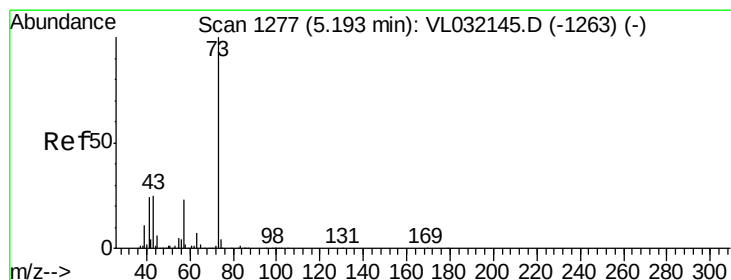
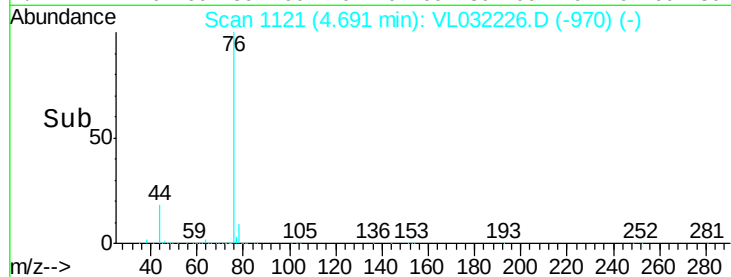
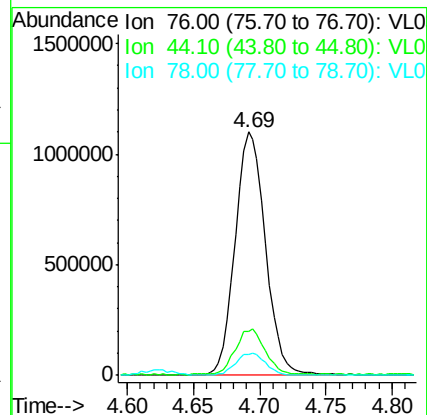
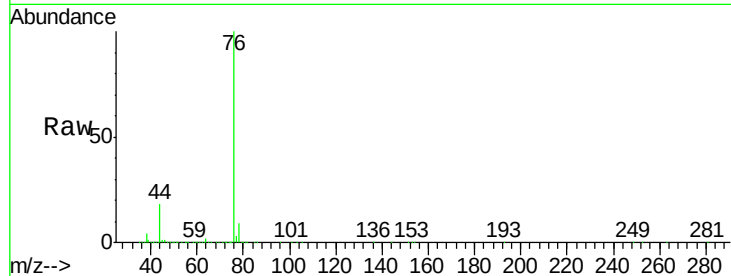
78 9.2 7.2 10.8

Manual Integrations

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7/9/2018 10:48:02 AM



#28

Methyl tert-Butyl Ether

Concen: 9.55 ppbv

RT: 5.19 min Scan# 1275

Delta R.T. -0.02 min

Lab File: VL032226.D

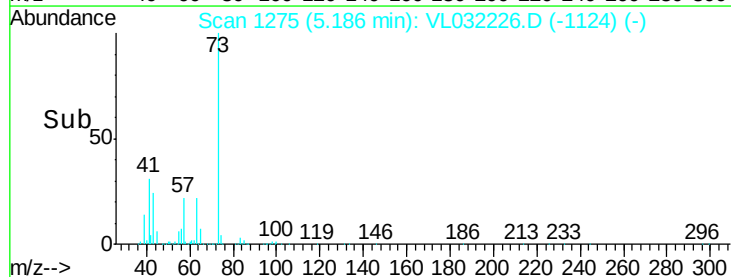
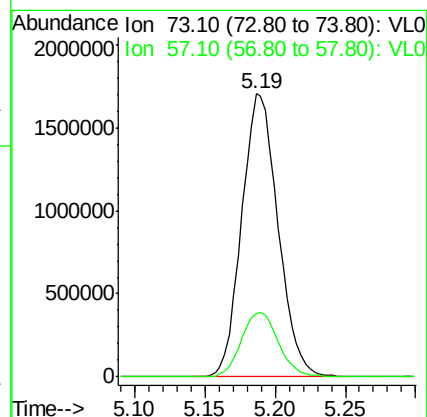
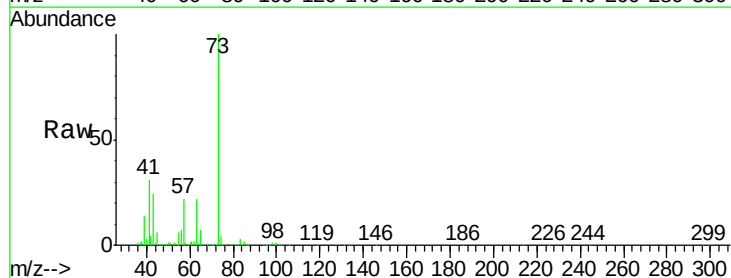
Acq: 6 Jul 2018 9:34

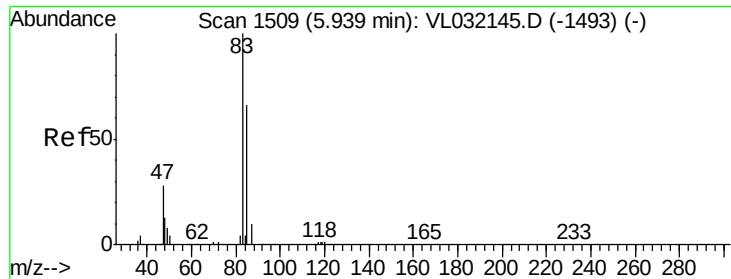
Tgt Ion: 73 Resp: 3073132

Ion Ratio Lower Upper

73 100

57 23.5 18.6 27.8





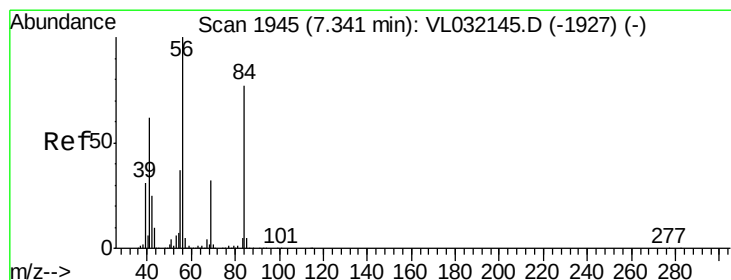
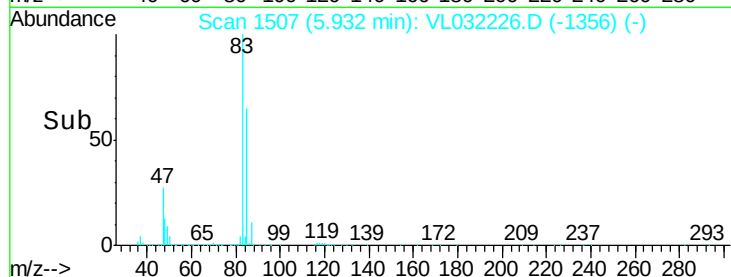
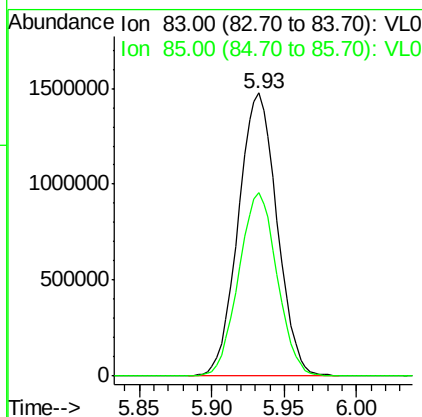
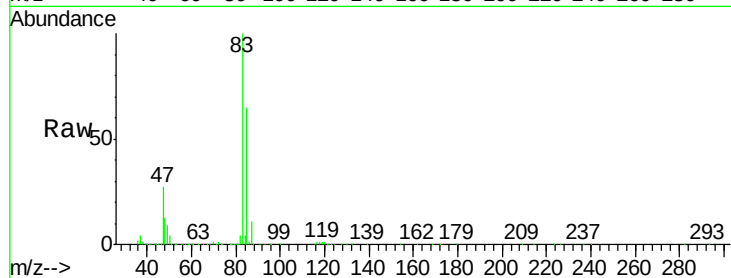
#29
Chloroform
Concen: 10.34 ppbv
RT: 5.93 min Scan# 1507
Delta R.T. -0.02 min
Lab File: VL032226.D
Acq: 6 Jul 2018 9:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 83 Resp: 2741352
Ion Ratio Lower Upper
83 100
85 64.8 51.6 77.4

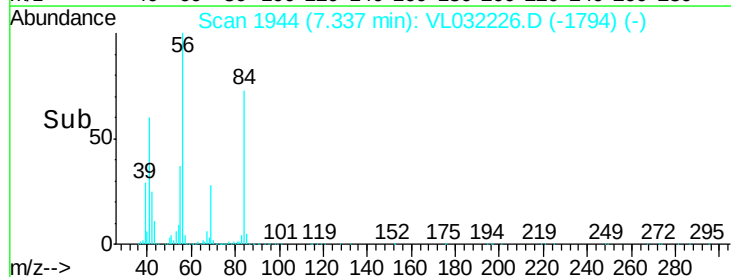
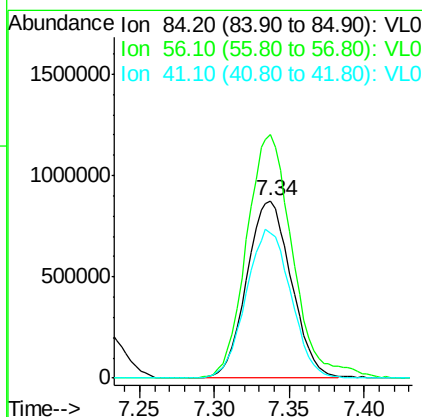
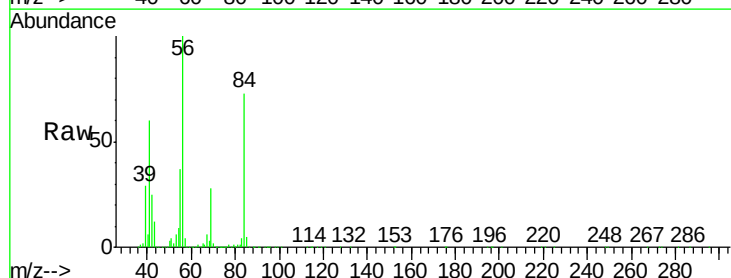
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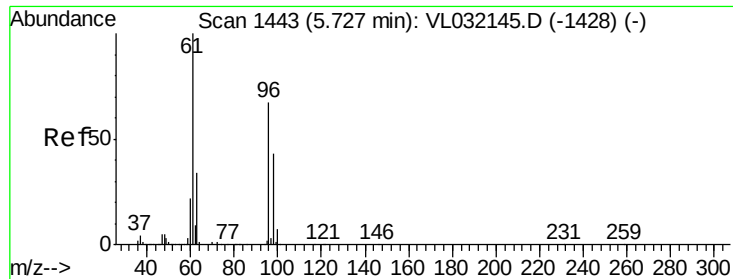
MMDadoda
7/9/2018 10:48:02 AM



#30
Cyclohexane
Concen: 10.56 ppbv
RT: 7.34 min Scan# 1944
Delta R.T. -0.02 min
Lab File: VL032226.D
Acq: 6 Jul 2018 9:34

Tgt Ion: 84 Resp: 1812436
Ion Ratio Lower Upper
84 100
56 142.2 109.1 163.7
41 84.3 64.6 96.8





#31

cis-1,2-Dichloroethene

Concen: 10.53 ppbv

RT: 5.72 min Scan# 1441

Delta R.T. -0.02 min

Lab File: VL032226.D

Acq: 6 Jul 2018 9:34

Instrument :

MSVOA_L

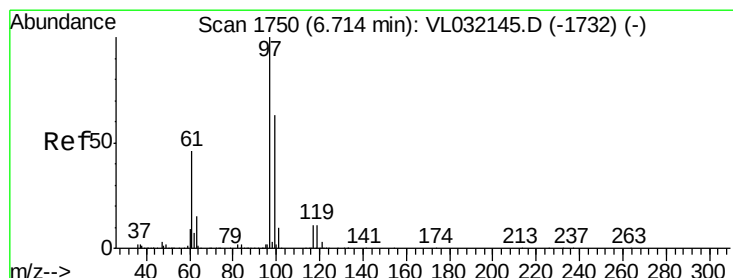
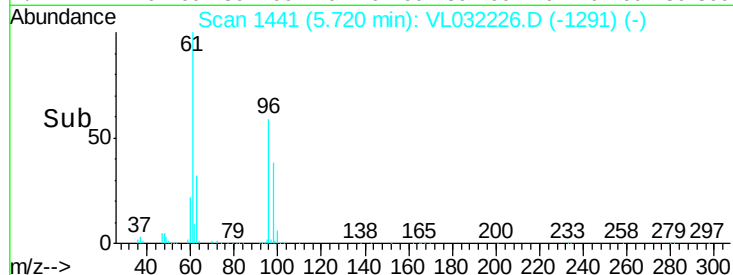
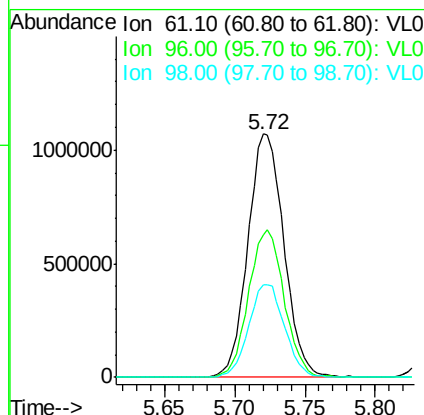
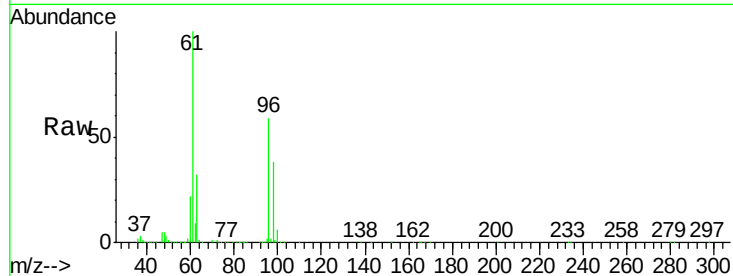
ClientSampleId :

VSTDCCC010EC

Tot Ion:	61	Resp:	1916653
Ion	Ratio	Lower	Upper
61	100		
96	58.5	54.2	81.4
98	37.9	34.6	52.0

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#32

1,1,1-Trichloroethane

Concen: 10.89 ppbv

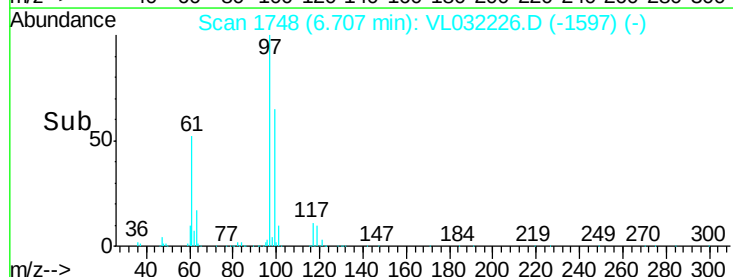
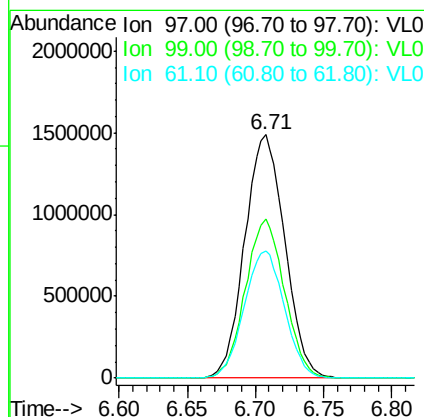
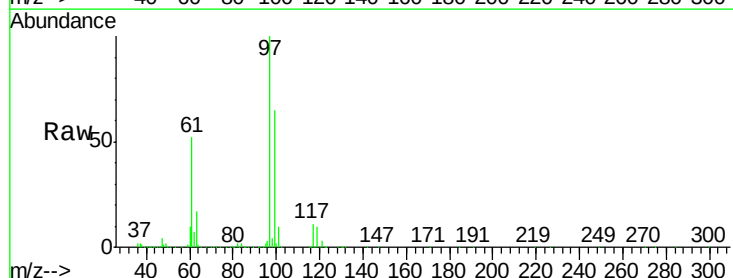
RT: 6.71 min Scan# 1748

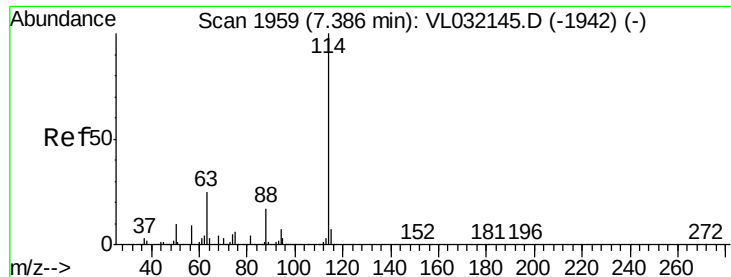
Delta R.T. -0.02 min

Lab File: VL032226.D

Acq: 6 Jul 2018 9:34

Tgt Ion:	97	Resp:	3027169
Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.3	76.9
61	52.8	38.4	57.6





#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.38 min Scan# 1958

Delta R.T. -0.02 min

Lab File: VL032226.D

Acq: 6 Jul 2018 9:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:114 Resp: 4134837

Ion Ratio Lower Upper

114 100

63 28.6 19.1 28.7

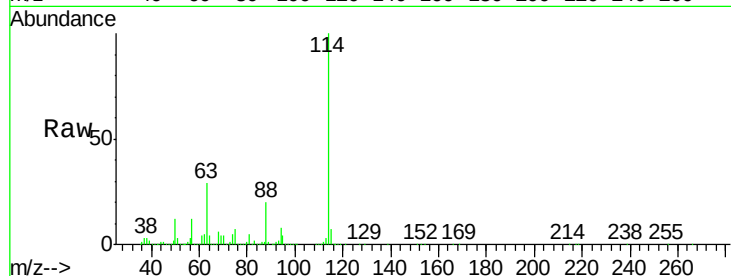
88 19.2 13.9 20.9

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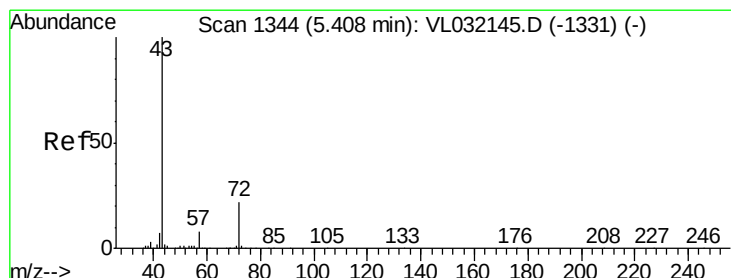
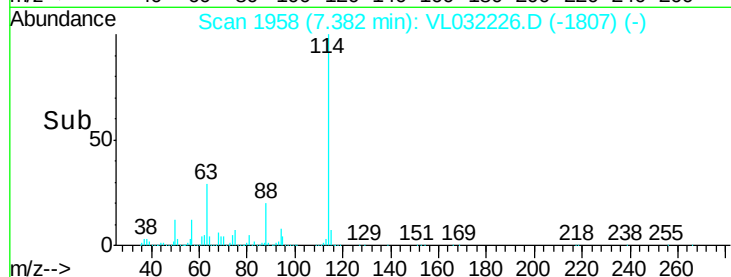
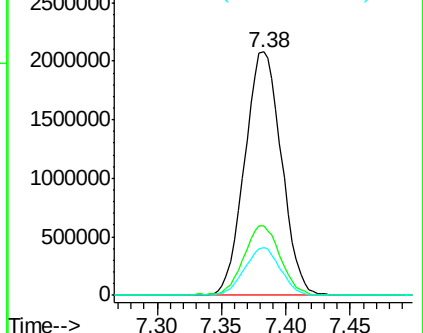
7/9/2018 10:48:02 AM



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 10.45 ppbv

RT: 5.41 min Scan# 1343

Delta R.T. -0.02 min

Lab File: VL032226.D

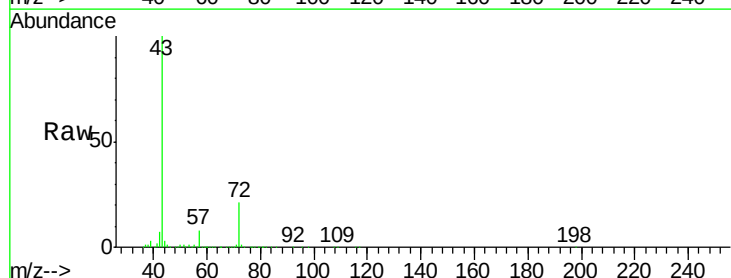
Acq: 6 Jul 2018 9:34

Tgt Ion: 43 Resp: 2742045

Ion Ratio Lower Upper

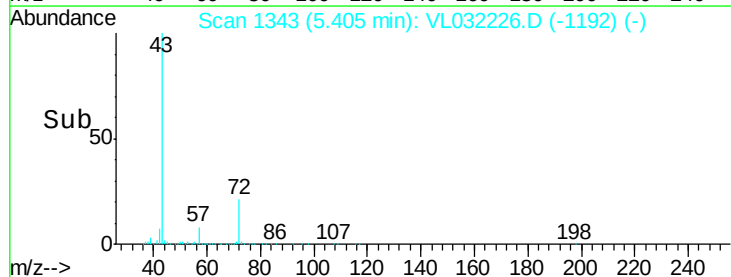
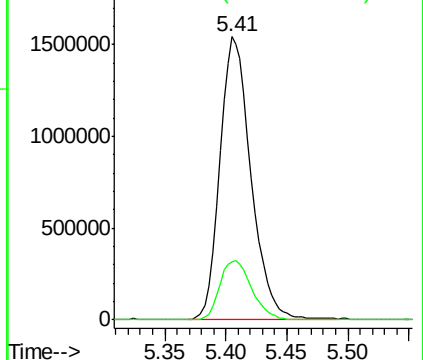
43 100

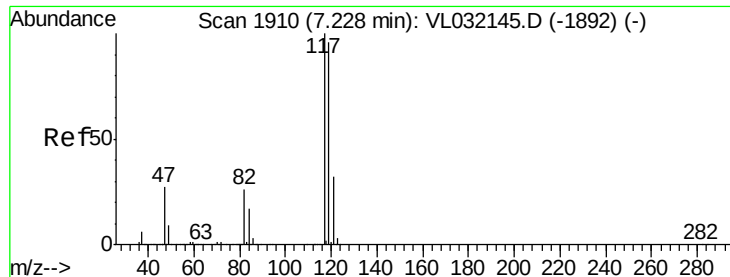
72 22.1 18.4 27.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 10.69 ppbv

RT: 7.22 min Scan# 1908

Delta R.T. -0.02 min

Lab File: VL032226.D

Acq: 6 Jul 2018 9:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:117 Resp: 3025168

Ion Ratio Lower Upper

117 100

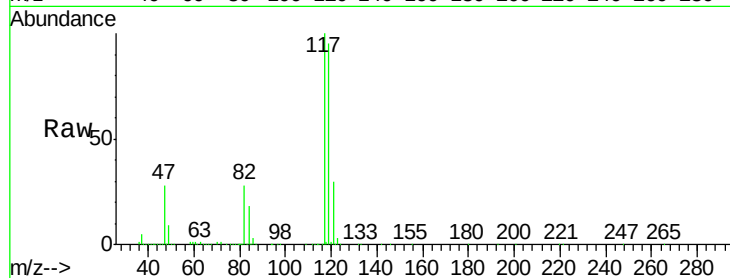
119 94.6 74.8 112.2

121 30.0 24.0 36.0

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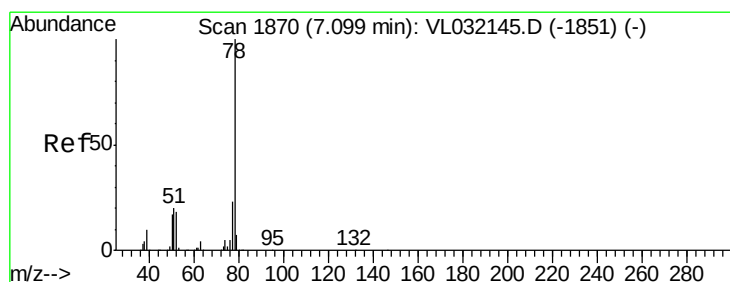
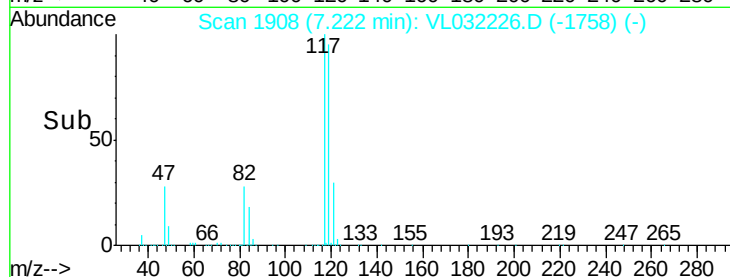
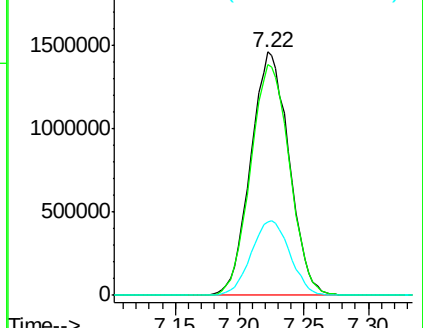
7/9/2018 10:48:02 AM



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: 11.02 ppbv

RT: 7.10 min Scan# 1869

Delta R.T. -0.02 min

Lab File: VL032226.D

Acq: 6 Jul 2018 9:34

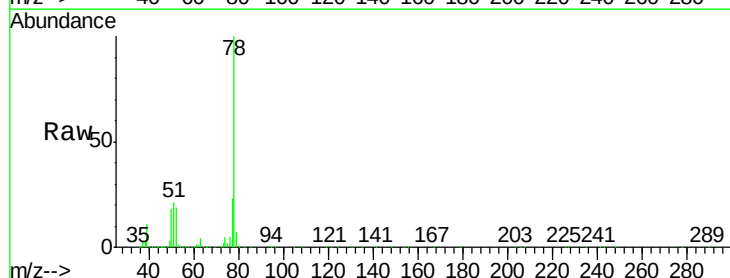
Tgt Ion: 78 Resp: 4411135

Ion Ratio Lower Upper

78 100

77 22.8 17.7 26.5

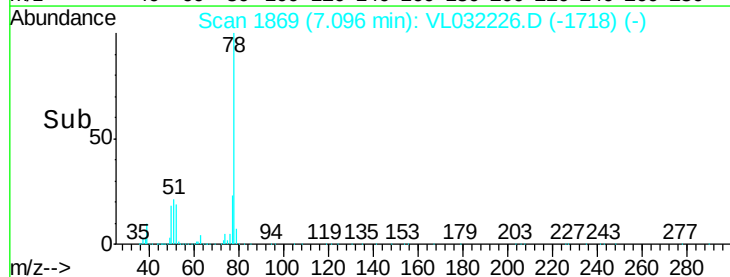
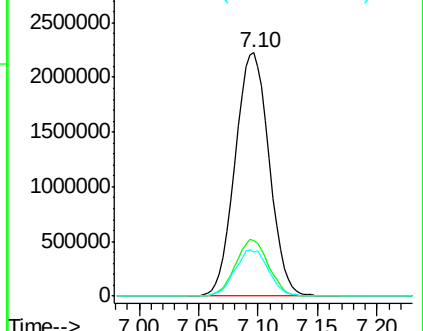
50 18.3 14.0 21.0

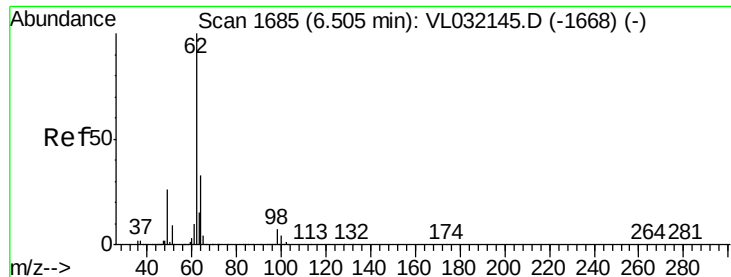


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 11.97 ppbv

RT: 6.50 min Scan# 1683

Delta R.T. -0.02 min

Lab File: VL032226.D

Acq: 6 Jul 2018 9:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 2387071

Ion Ratio Lower Upper

62 100

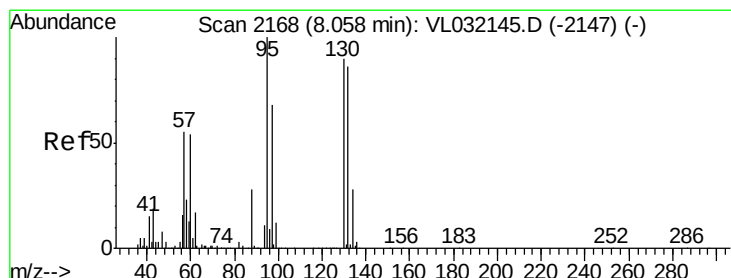
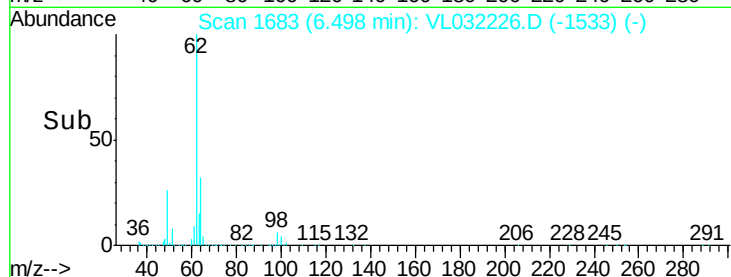
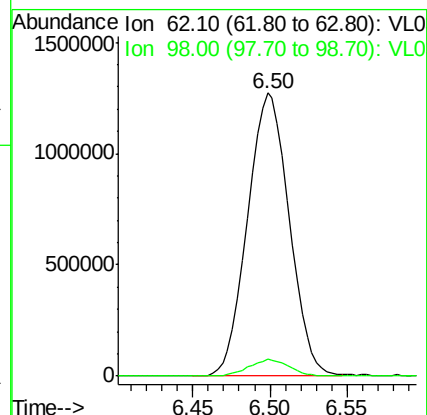
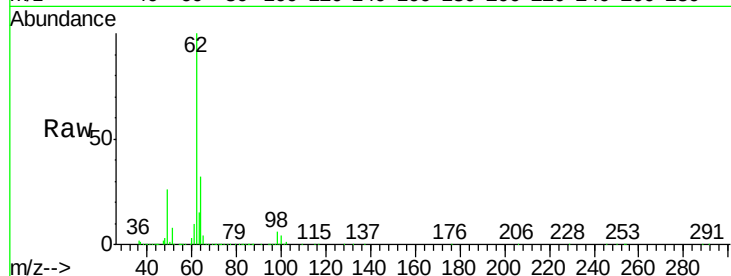
98 5.7 5.8 8.6#

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#38

Trichloroethene

Concen: 9.12 ppbv

RT: 8.05 min Scan# 2167

Delta R.T. -0.02 min

Lab File: VL032226.D

Acq: 6 Jul 2018 9:34

Tgt Ion: 130 Resp: 1425209

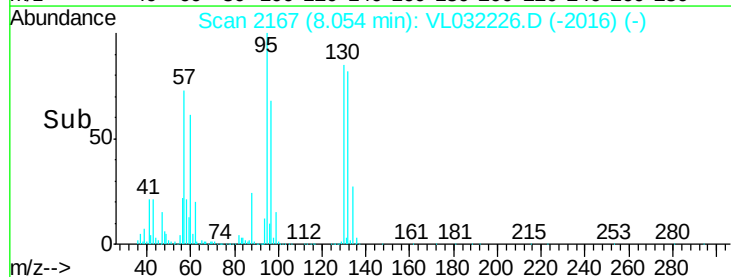
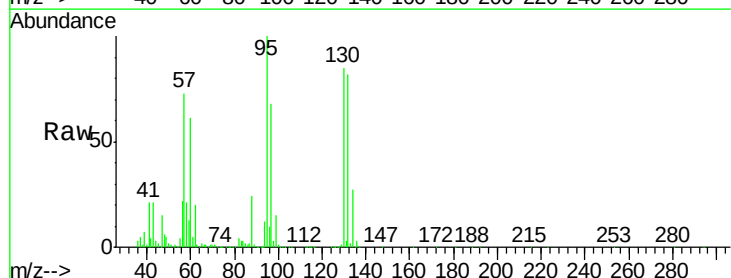
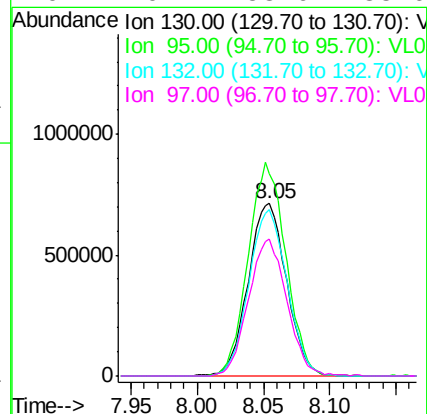
Ion Ratio Lower Upper

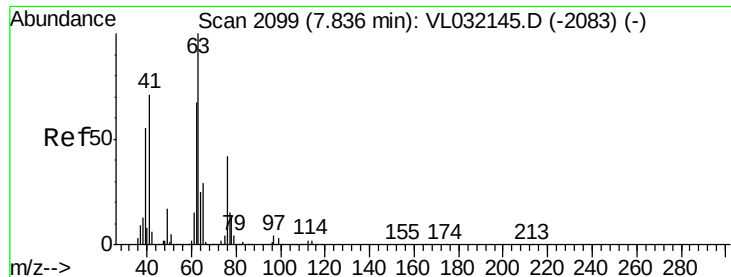
130 100

95 117.4 88.1 132.1

132 96.8 74.6 112.0

97 79.7 58.6 88.0





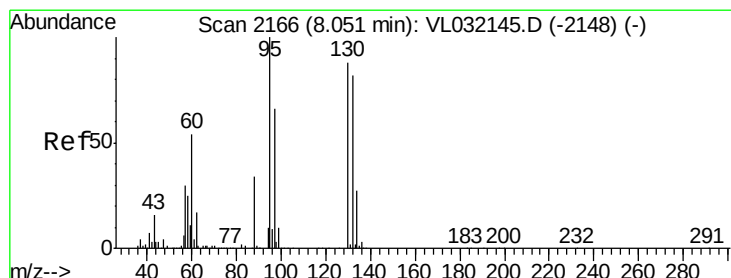
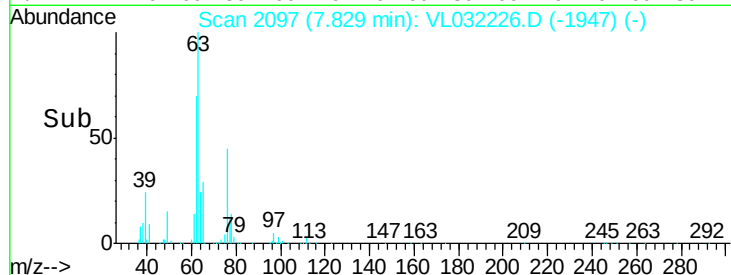
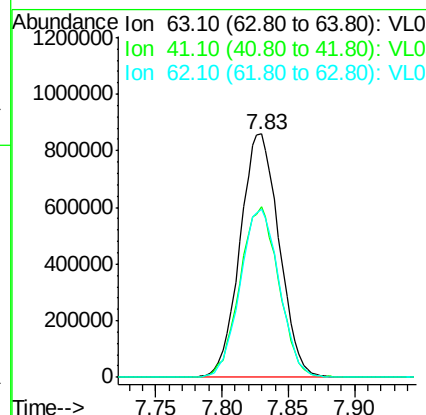
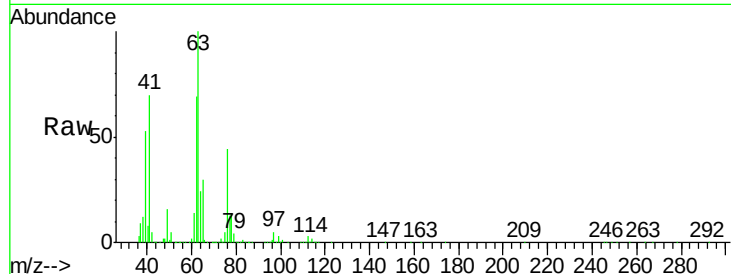
#39
 1,2-Dichloropropane
 Concen: 11.14 ppbv
 RT: 7.83 min Scan# 2097
 Delta R.T. -0.02 min
 Lab File: VL032226.D
 Acq: 6 Jul 2018 9:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
63	100		
41	69.9	53.3	79.9
62	68.8	54.8	82.2

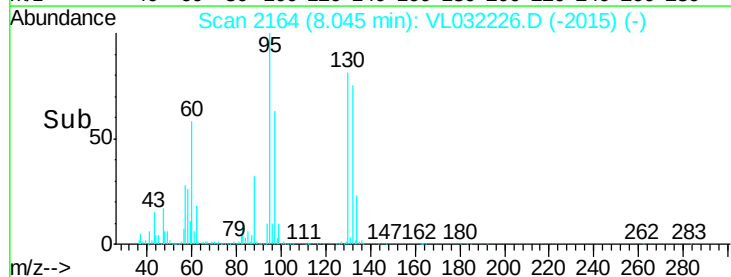
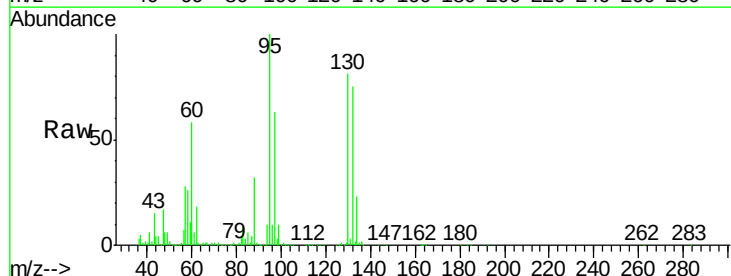
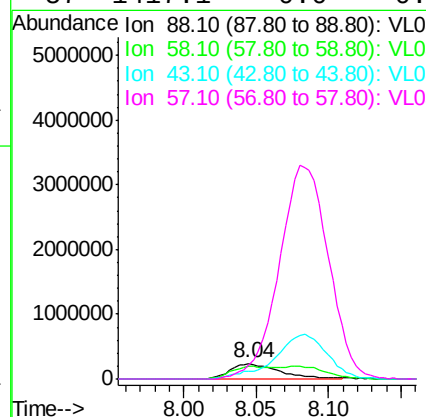
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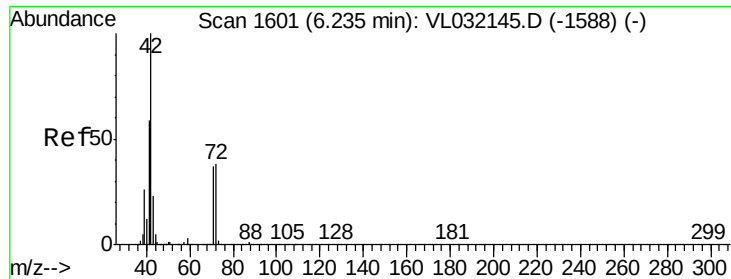
MMDadoda
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#40
 1,4-Dioxane
 Concen: 8.90 ppbv
 RT: 8.04 min Scan# 2164
 Delta R.T. -0.02 min
 Lab File: VL032226.D
 Acq: 6 Jul 2018 9:34

Tgt Ion	Ratio	Lower	Upper
88	100		
58	149.8	47.4	71.0#
43	312.6	0.0	0.0#
57	1417.1	0.0	0.0#





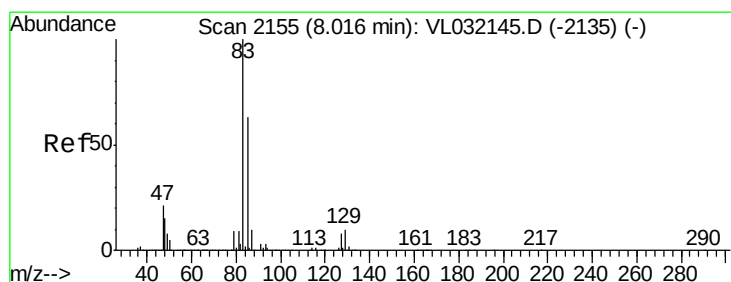
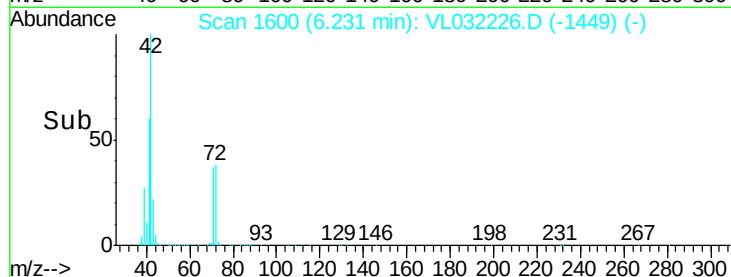
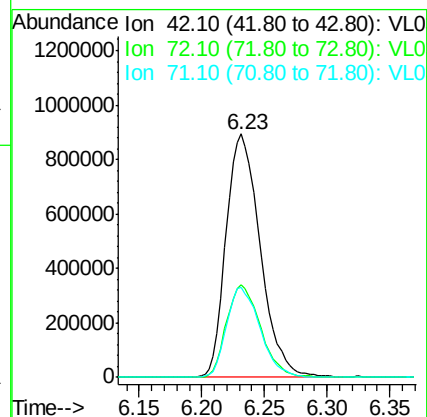
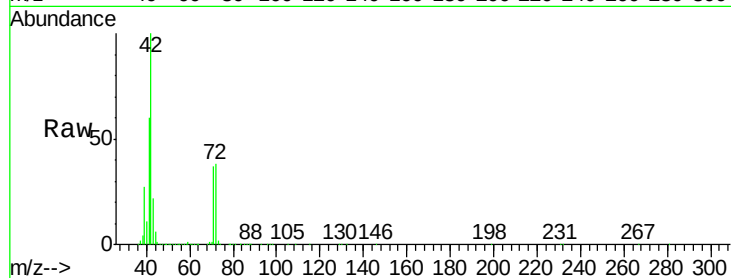
#41
Tetrahydrofuran
Concen: 10.70 ppbv
RT: 6.23 min Scan# 1600
Delta R.T. -0.02 min
Lab File: VL032226.D
Acq: 6 Jul 2018 9:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	38.0	31.1	46.7
71	36.6	29.5	44.3

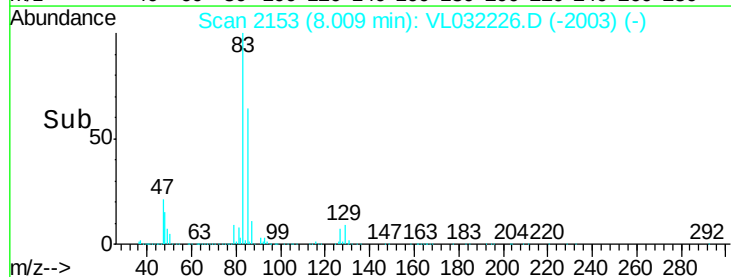
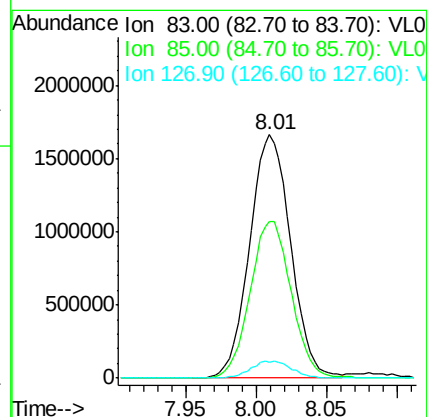
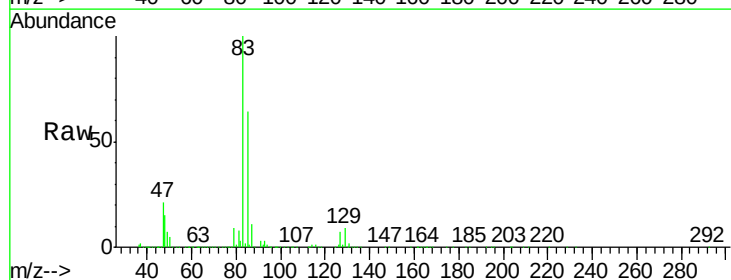
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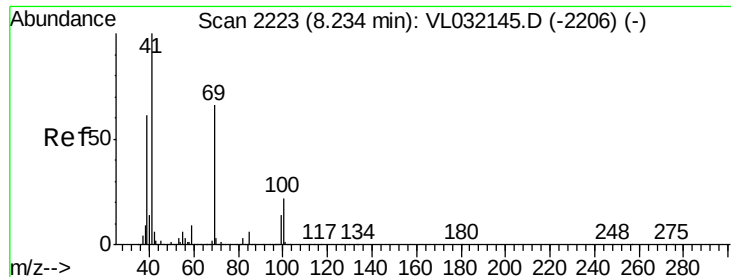
MMDadoda
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#42
Bromodichloromethane
Concen: 10.82 ppbv
RT: 8.01 min Scan# 2153
Delta R.T. -0.02 min
Lab File: VL032226.D
Acq: 6 Jul 2018 9:34

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.2	52.6	79.0
127	6.7	6.5	9.7





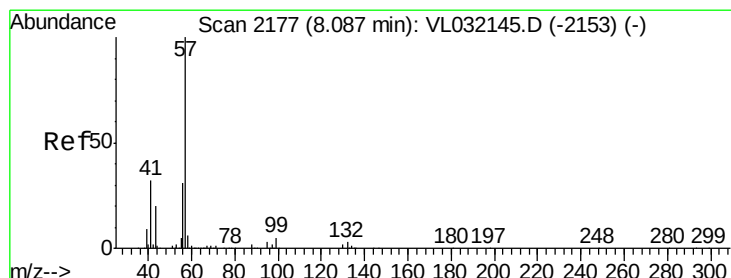
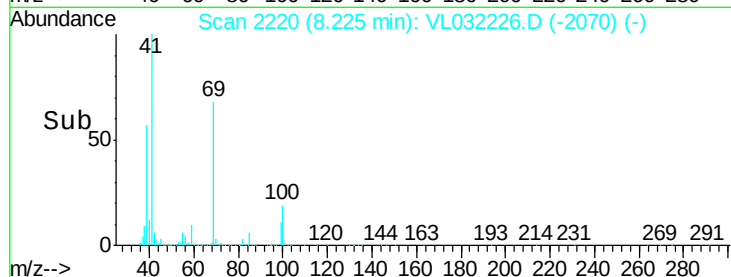
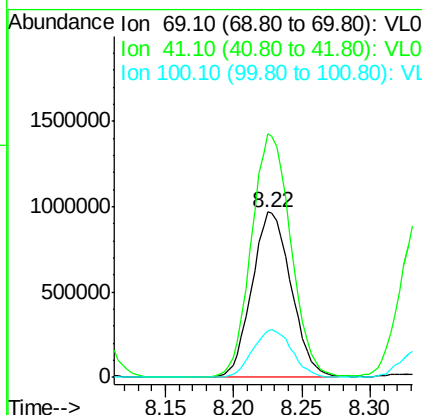
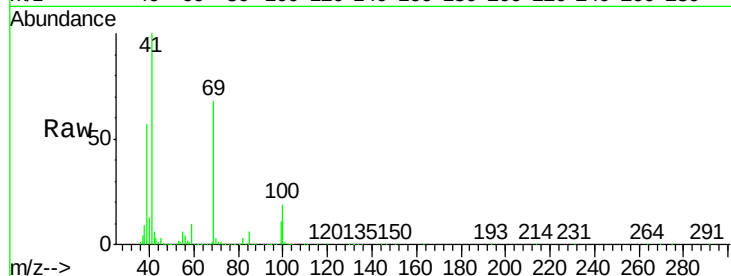
#43
Methyl Methacrylate
Concen: 11.66 ppbv
RT: 8.22 min Scan# 2220
Delta R.T. -0.02 min
Lab File: VL032226.D
Acq: 6 Jul 2018 9:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 69 Resp: 1934470
Ion Ratio Lower Upper
69 100
41 147.7 118.2 177.4
100 29.1 27.4 41.2

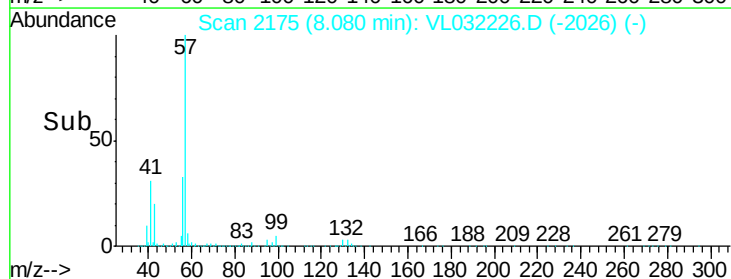
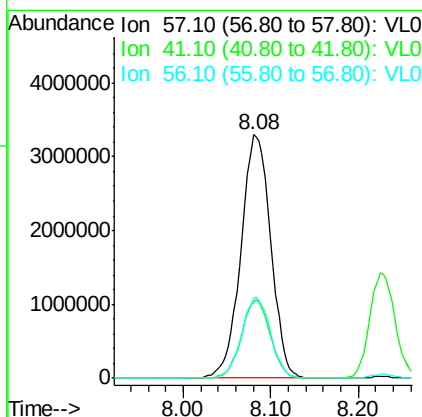
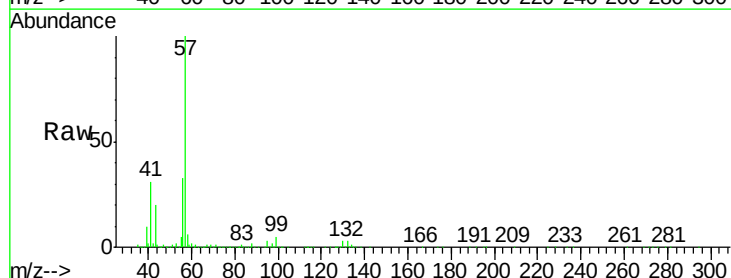
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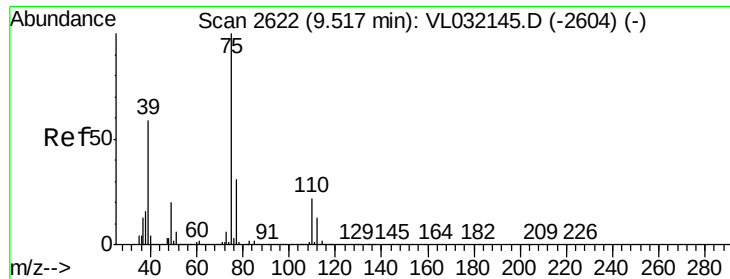
MMDadoda
7/9/2018 10:48:02 AM



#44
2,2,4-Trimethylpentane
Concen: 11.15 ppbv
RT: 8.08 min Scan# 2175
Delta R.T. -0.02 min
Lab File: VL032226.D
Acq: 6 Jul 2018 9:34

Tgt Ion: 57 Resp: 7805791
Ion Ratio Lower Upper
57 100
41 31.0 24.3 36.5
56 31.9 25.1 37.7





#45

t-1,3-Dichloropropene

Concen: 11.58 ppbv

RT: 9.51 min Scan# 2620

Delta R.T. -0.02 min

Lab File: VL032226.D

Acq: 6 Jul 2018 9:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 75 Resp: 2380898

Ion Ratio Lower Upper

75 100

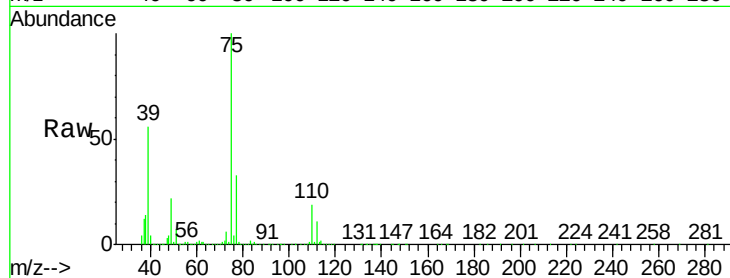
77 32.6 25.6 38.4

Manual Integrations

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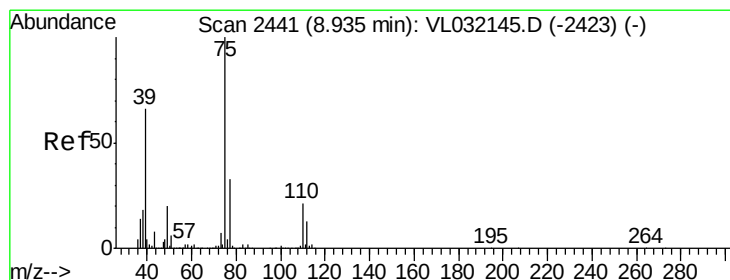
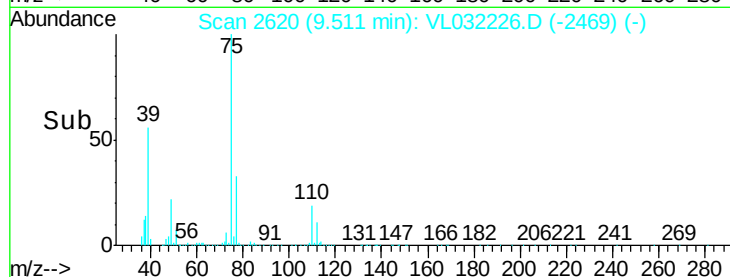
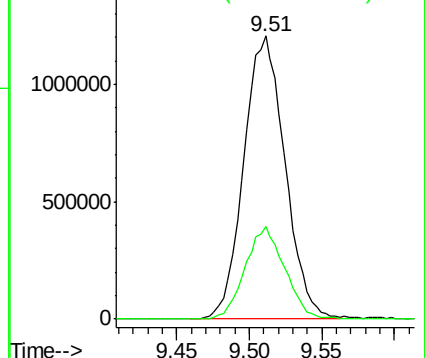
MMDadoda

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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 10.77 ppbv

RT: 8.93 min Scan# 2439

Delta R.T. -0.02 min

Lab File: VL032226.D

Acq: 6 Jul 2018 9:34

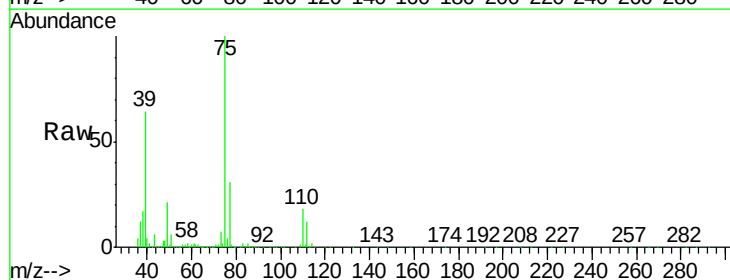
Tgt Ion: 75 Resp: 2643807

Ion Ratio Lower Upper

75 100

39 63.6 51.9 77.9

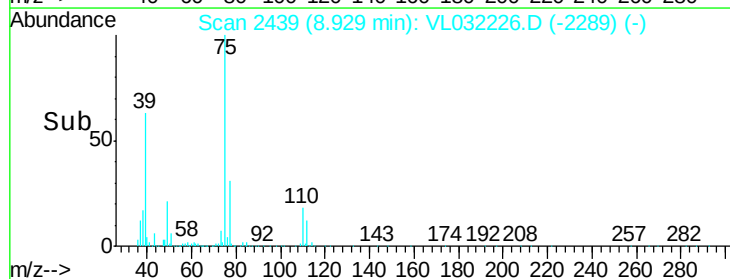
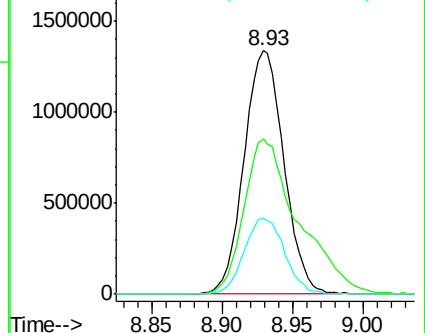
77 31.3 24.3 36.5

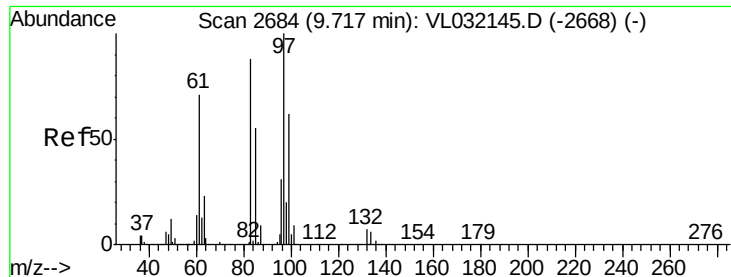


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





#47

1,1,2-Trichloroethane

Concen: 10.65 ppbv

RT: 9.71 min Scan# 2682

Delta R.T. -0.02 min

Lab File: VL032226.D

Acq: 6 Jul 2018 9:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 97 Resp: 1747946

Ion Ratio Lower Upper

97 100

83 92.8 71.0 106.4

85 59.5 44.2 66.4

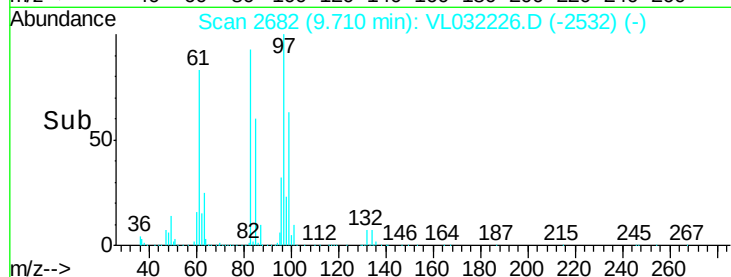
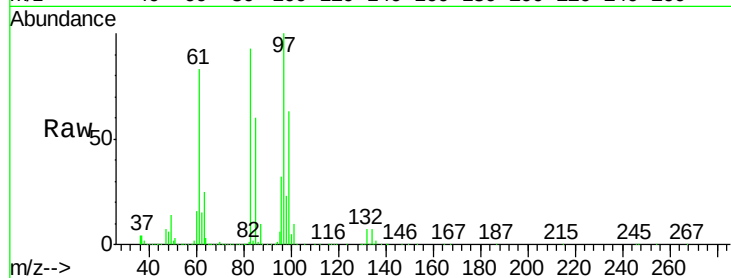
99 62.6 49.2 73.8

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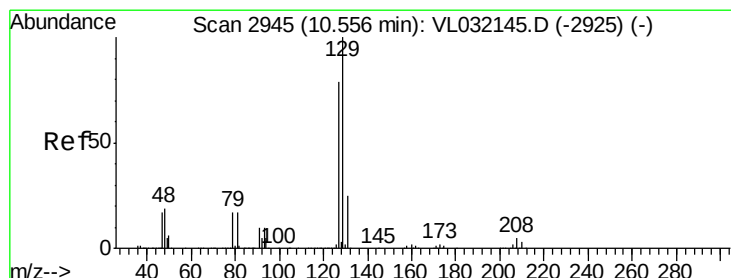
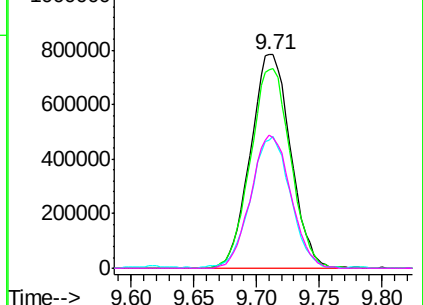


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 11.07 ppbv

RT: 10.55 min Scan# 2943

Delta R.T. -0.02 min

Lab File: VL032226.D

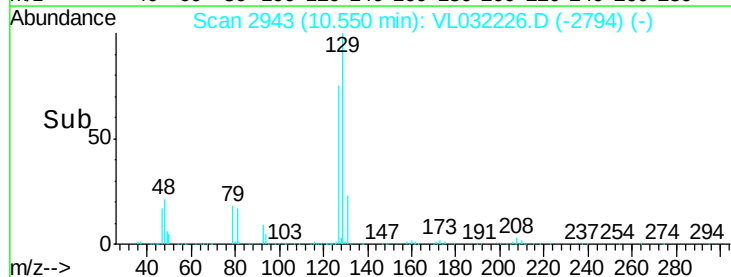
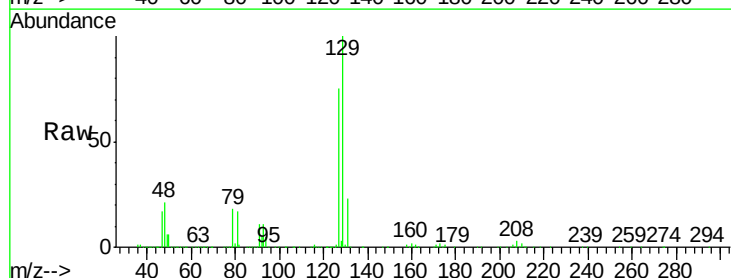
Acq: 6 Jul 2018 9:34

Tgt Ion: 129 Resp: 2810601

Ion Ratio Lower Upper

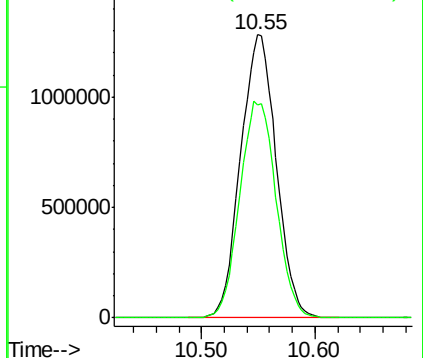
129 100

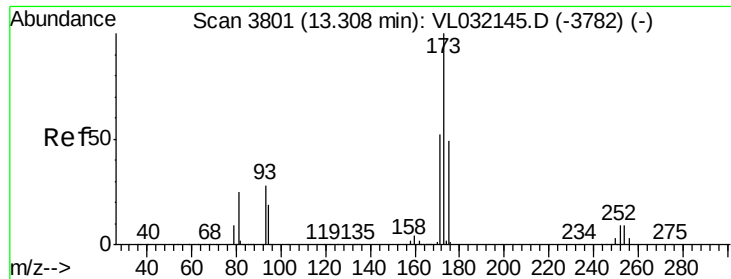
127 78.3 39.1 117.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





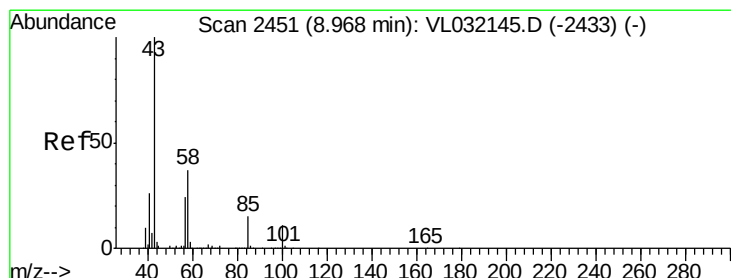
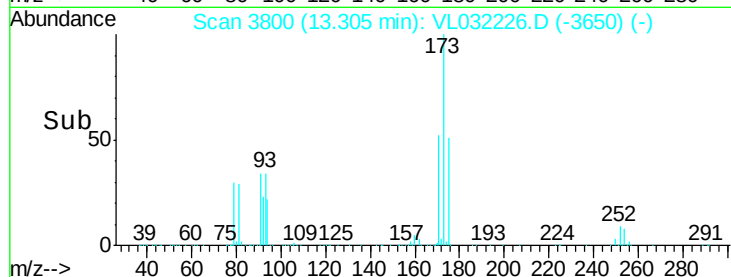
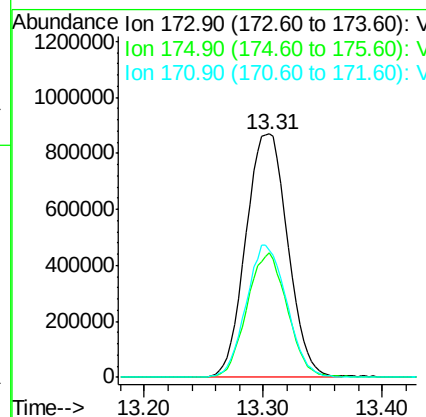
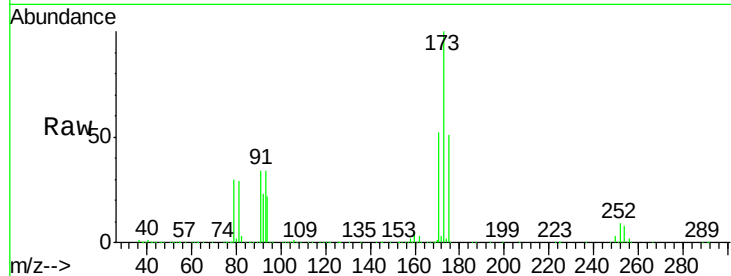
#49
Bromoform
Concen: 10.00 ppbv
RT: 13.31 min Scan# 3800
Delta R.T. -0.02 min
Lab File: VL032226.D
Acq: 6 Jul 2018 9:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:173 Resp: 2126126
Ion Ratio Lower Upper
173 100
175 48.9 39.4 59.0
171 52.6 41.8 62.8

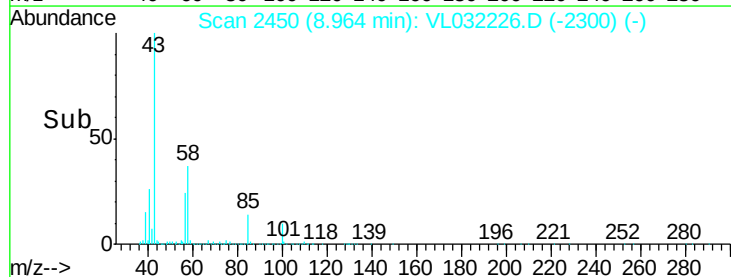
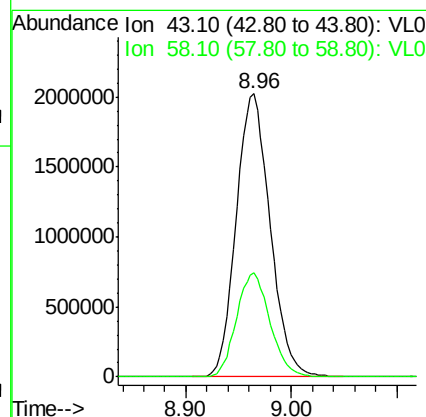
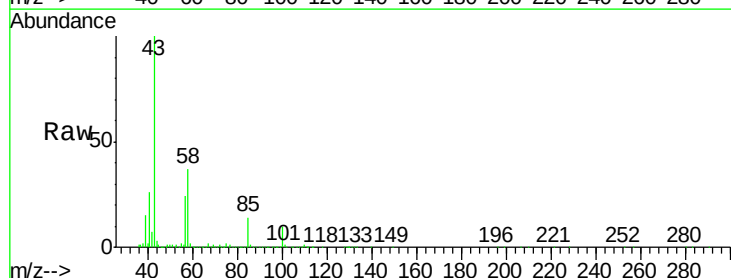
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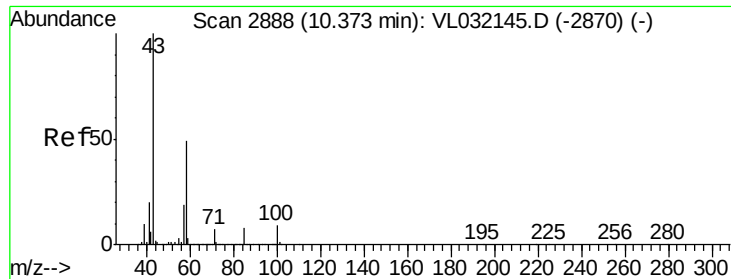
MMDadoda
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#50
4-Methyl-2-Pentanone
Concen: 10.50 ppbv
RT: 8.96 min Scan# 2450
Delta R.T. -0.02 min
Lab File: VL032226.D
Acq: 6 Jul 2018 9:34

Tgt Ion: 43 Resp: 4512924
Ion Ratio Lower Upper
43 100
58 36.5 29.8 44.6





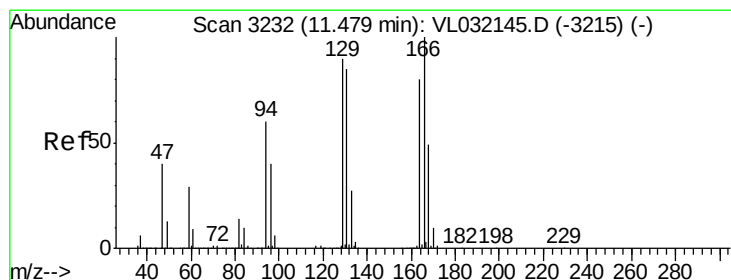
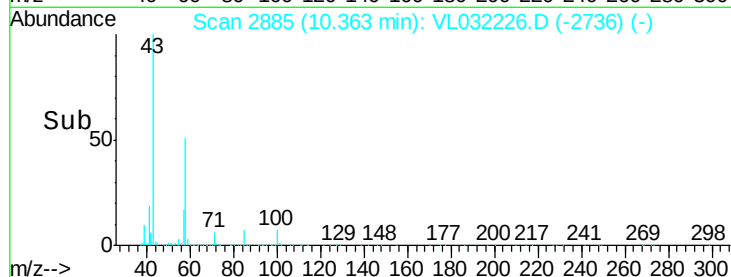
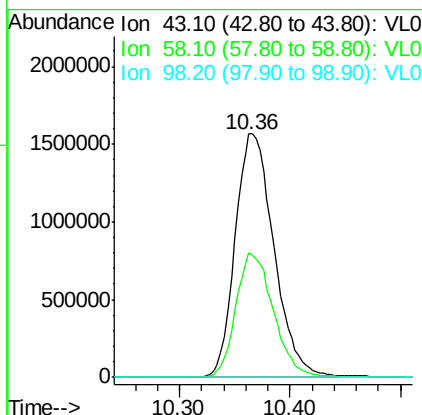
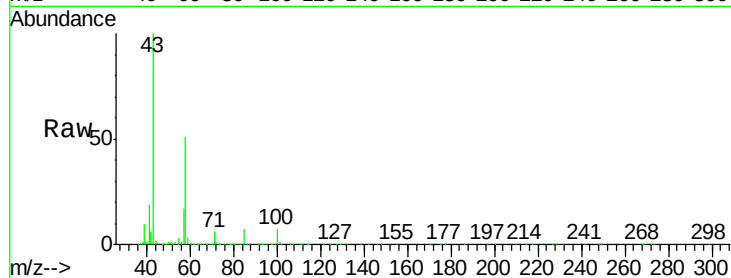
#51
2-Hexanone
Concen: 10.70 ppbv
RT: 10.36 min Scan# 2885
Delta R.T. -0.02 min
Lab File: VL032226.D
Acq: 6 Jul 2018 9:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 43 Resp: 3812207
Ion Ratio Lower Upper
43 100
58 49.7 40.6 60.8
98 0.3 0.1 0.1#

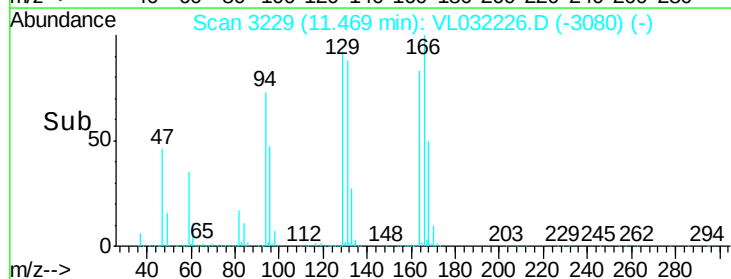
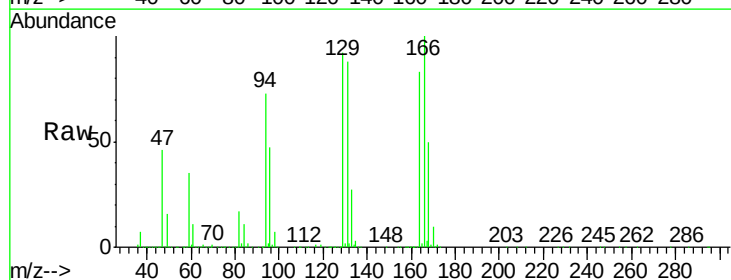
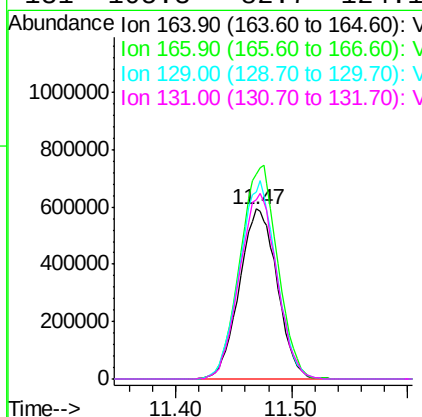
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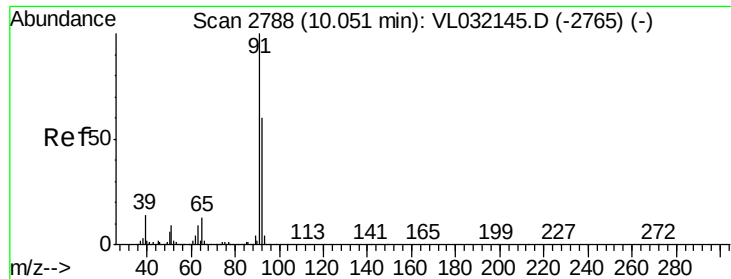
MMDadoda
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#52
Tetrachloroethene
Concen: 9.19 ppbv
RT: 11.47 min Scan# 3229
Delta R.T. -0.02 min
Lab File: VL032226.D
Acq: 6 Jul 2018 9:34

Tgt Ion: 164 Resp: 1337745
Ion Ratio Lower Upper
164 100
166 120.1 100.6 151.0
129 110.2 84.0 126.0
131 105.3 82.7 124.1





#53

Toluene

Concen: 10.57 ppbv

RT: 10.04 min Scan# 2786

Delta R.T. -0.02 min

Lab File: VL032226.D

Acq: 6 Jul 2018 9:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 5111341

Ion Ratio Lower Upper

91 100

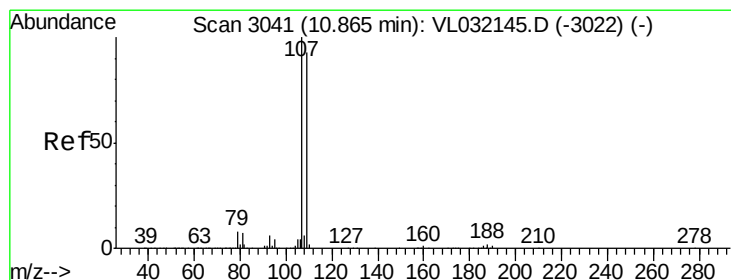
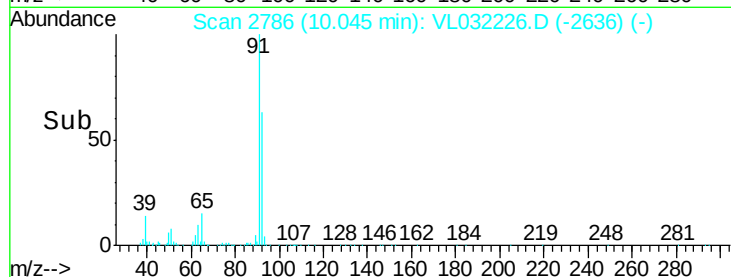
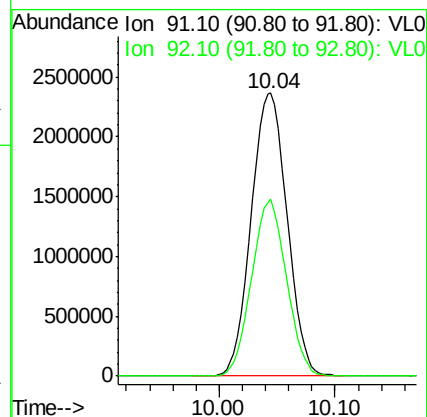
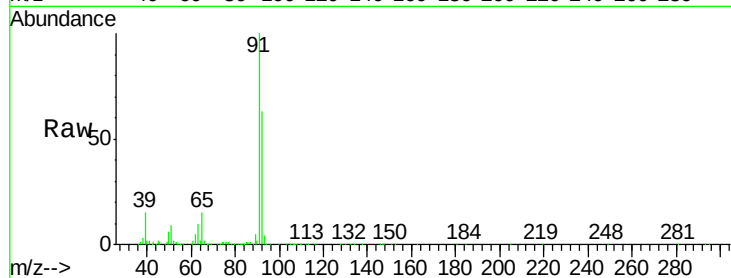
92 60.7 49.2 73.8

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#54

1,2-Dibromoethane

Concen: 11.00 ppbv

RT: 10.86 min Scan# 3039

Delta R.T. -0.02 min

Lab File: VL032226.D

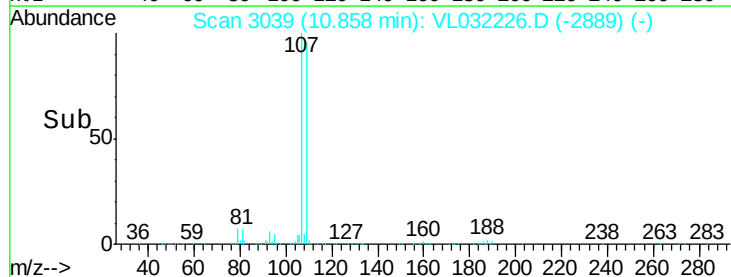
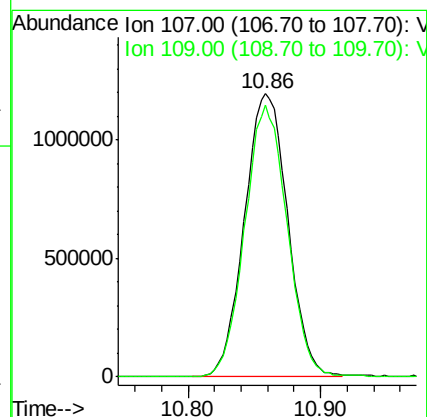
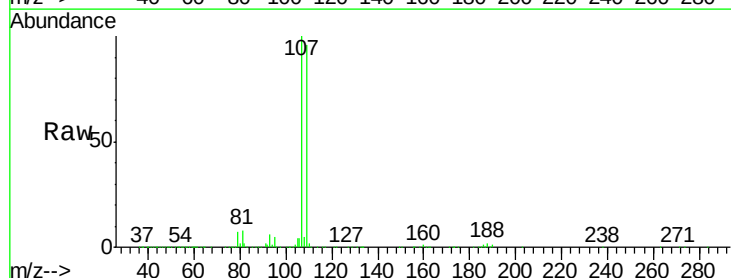
Acq: 6 Jul 2018 9:34

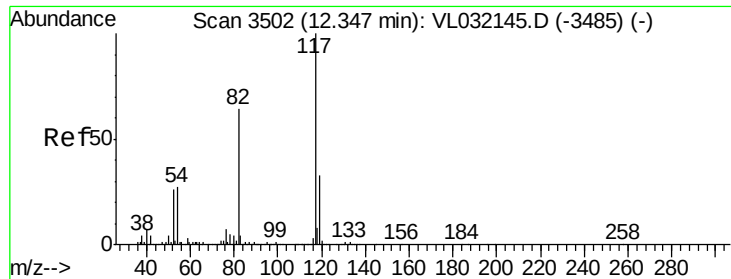
Tgt Ion: 107 Resp: 2713435

Ion Ratio Lower Upper

107 100

109 96.0 75.0 112.4





#55

Chlorobenzene-d5

Concen: 10.00 ppbv m

RT: 12.34 min Scan# 3500

Delta R.T. -0.02 min

Lab File: VL032226.D

Acq: 6 Jul 2018 9:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:117 Resp: 3957301

Ion Ratio Lower Upper

117 100

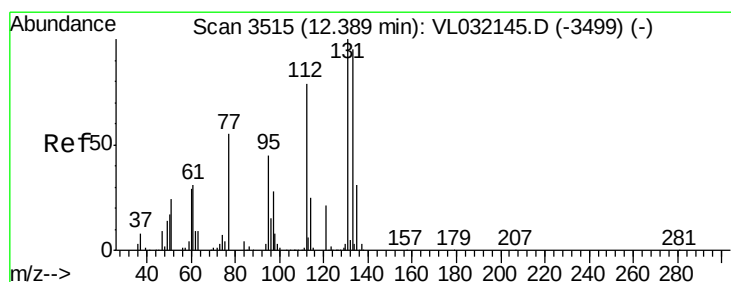
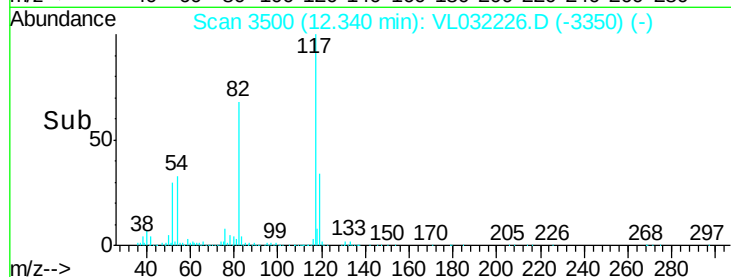
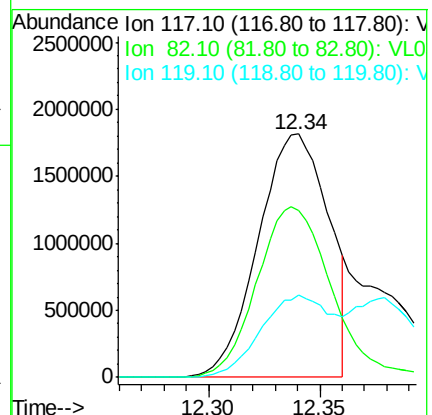
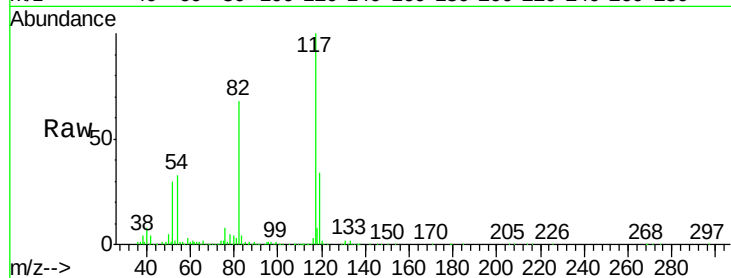
82 75.0 47.8 71.8#

119 32.5 43.3 64.9#

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#56

1,1,1,2-Tetrachloroethane

Concen: 11.01 ppbv

RT: 12.38 min Scan# 3511

Delta R.T. -0.03 min

Lab File: VL032226.D

Acq: 6 Jul 2018 9:34

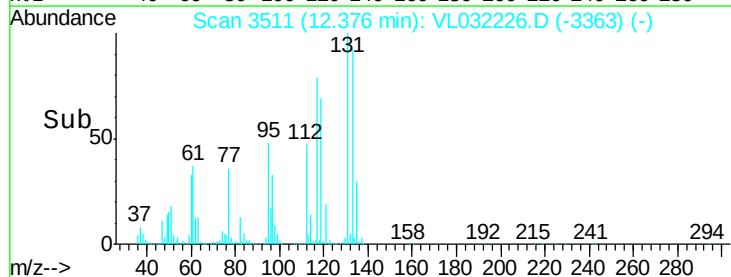
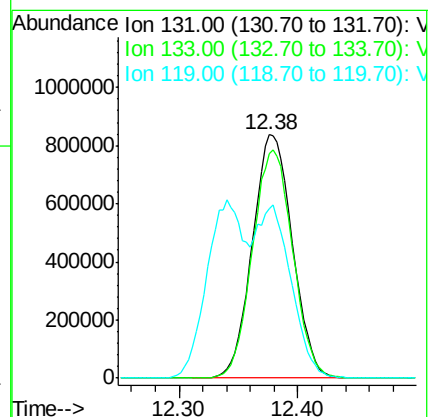
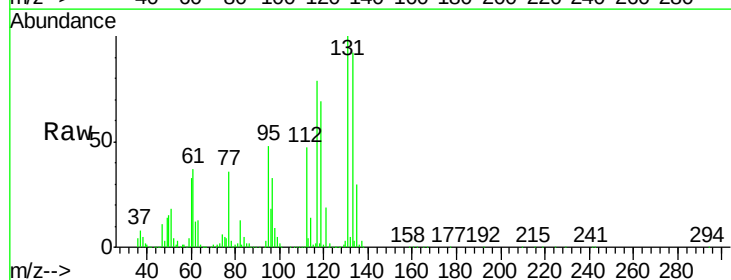
Tgt Ion:131 Resp: 1945995

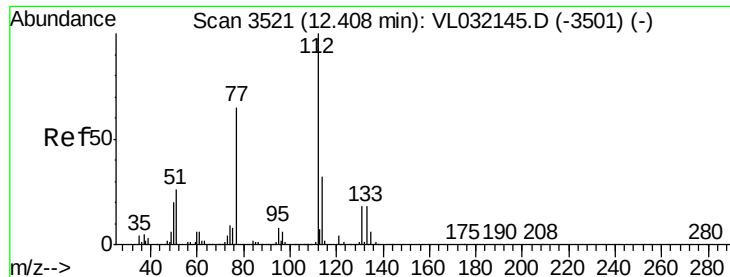
Ion Ratio Lower Upper

131 100

133 94.5 75.5 113.3

119 67.4 118.4 177.6#





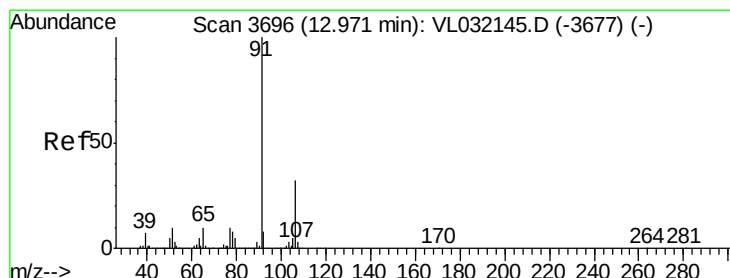
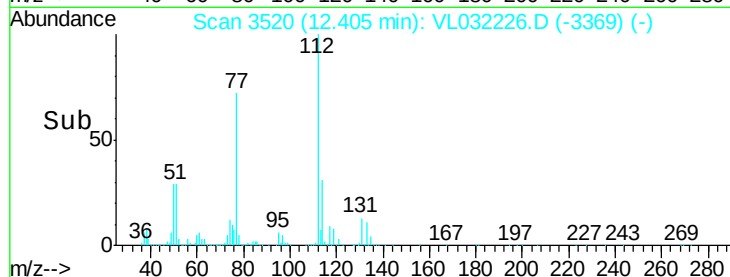
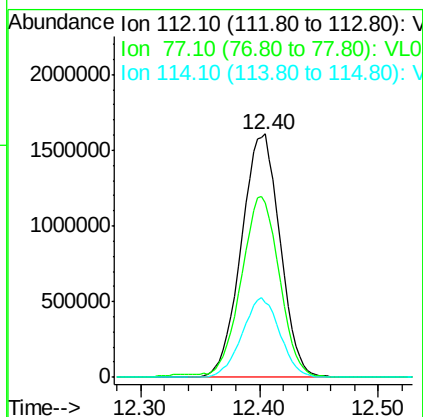
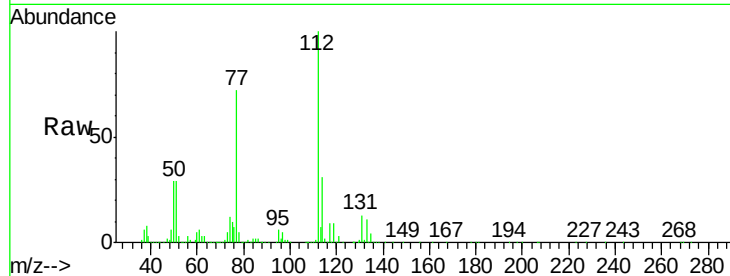
#57
Chlorobenzene
Concen: 10.57 ppbv
RT: 12.40 min Scan# 3520
Delta R.T. -0.02 min
Lab File: VL032226.D
Acq: 6 Jul 2018 9:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
112	100		
77	71.6	52.6	78.8
114	30.6	27.9	34.1

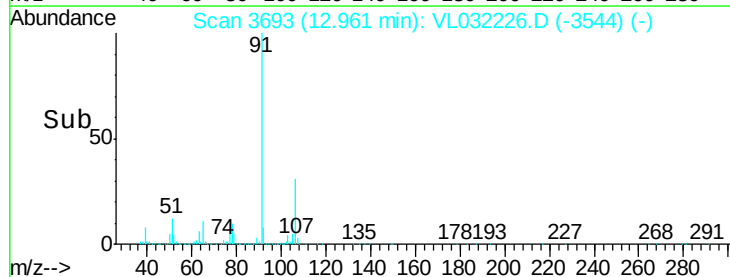
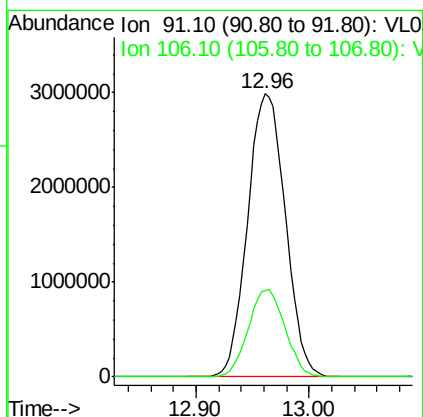
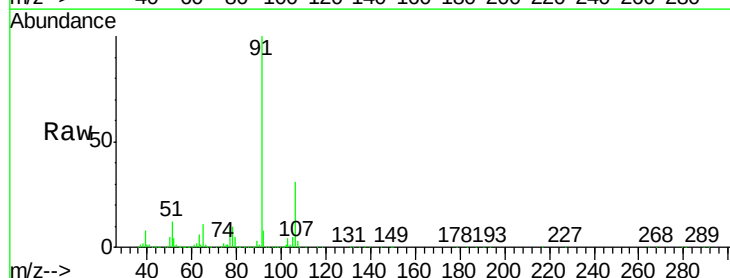
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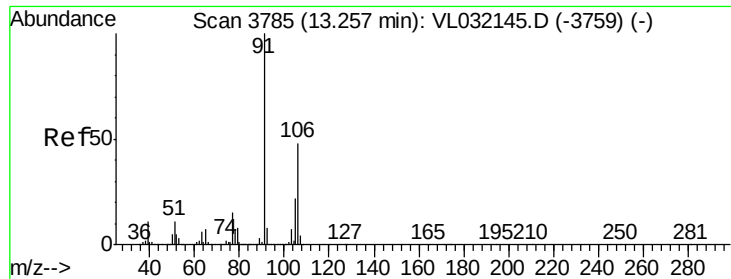
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#58
Ethyl Benzene
Concen: 10.88 ppbv
RT: 12.96 min Scan# 3693
Delta R.T. -0.02 min
Lab File: VL032226.D
Acq: 6 Jul 2018 9:34

Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.6	26.5	39.7





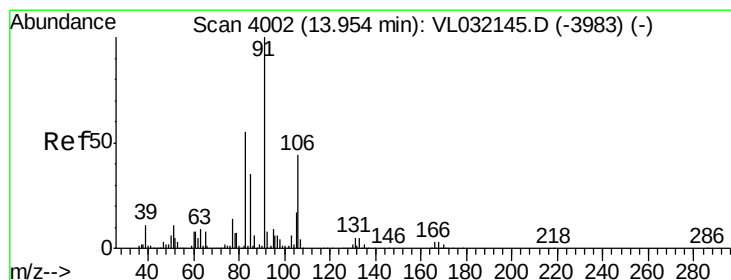
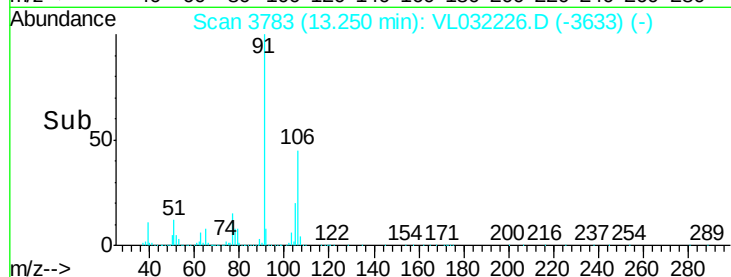
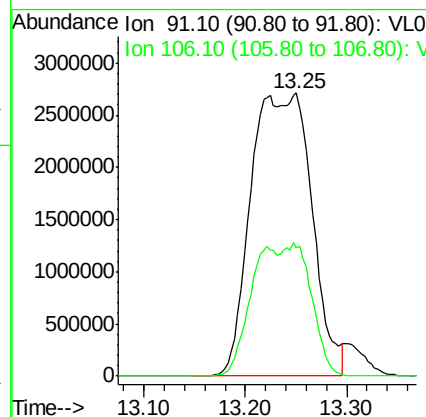
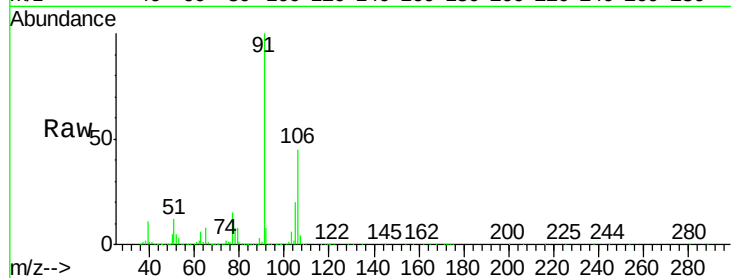
#59
m/p-Xylene
Concen: 22.04 ppbv m
RT: 13.25 min Scan# 3783
Delta R.T. -0.02 min
Lab File: VL032226.D
Acq: 6 Jul 2018 9:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 11268953
Ion Ratio Lower Upper
91 100
106 45.2 38.6 58.0

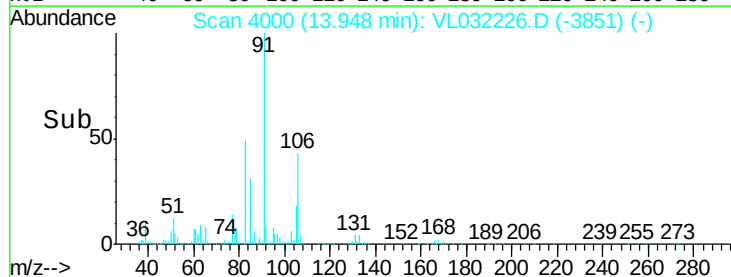
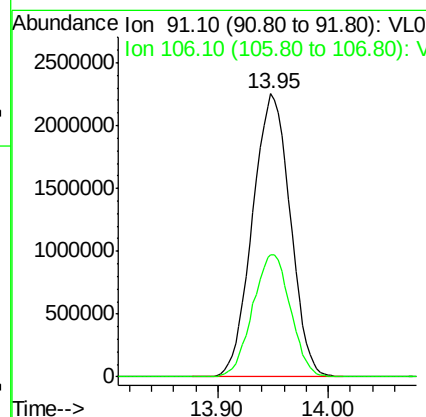
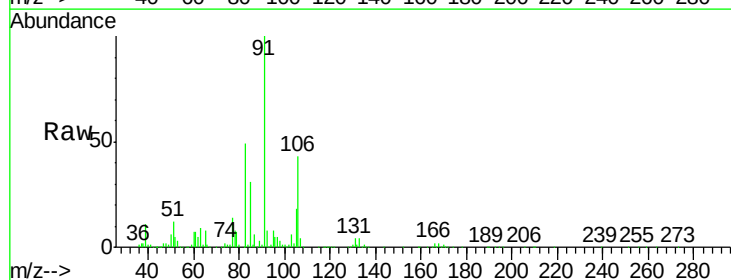
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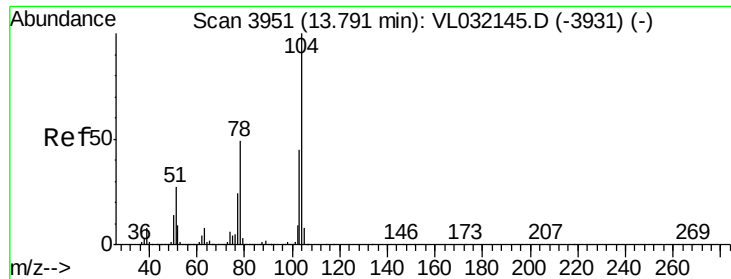
MMDadoda
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#60
o-Xylene
Concen: 10.48 ppbv
RT: 13.95 min Scan# 4000
Delta R.T. -0.02 min
Lab File: VL032226.D
Acq: 6 Jul 2018 9:34

Tgt Ion: 91 Resp: 5344569
Ion Ratio Lower Upper
91 100
106 43.4 23.3 69.8





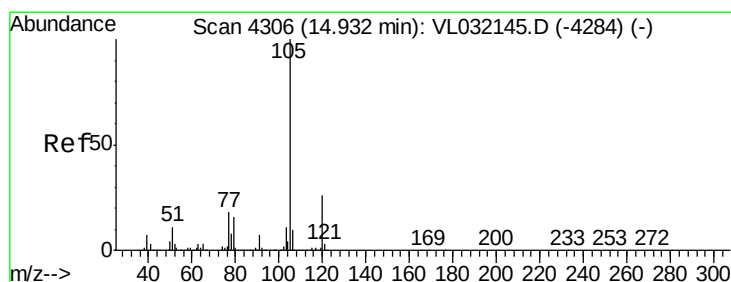
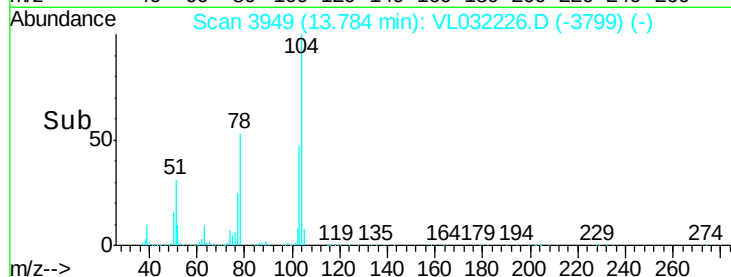
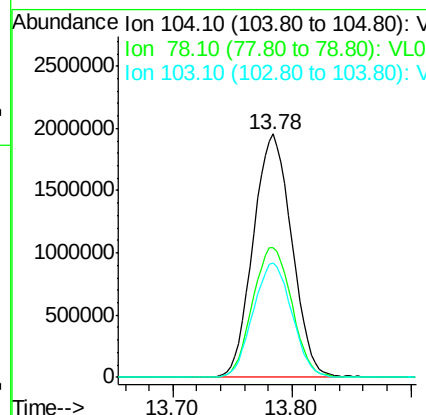
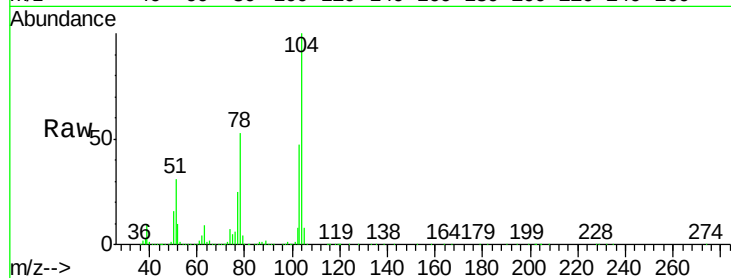
#61
Stvrene
Concen: 10.50 ppbv
RT: 13.78 min Scan# 3949
Delta R.T. -0.02 min
Lab File: VL032226.D
Acq: 6 Jul 2018 9:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:104 Resp: 4388103
Ion Ratio Lower Upper
104 100
78 54.4 37.9 56.9
103 47.5 36.6 55.0

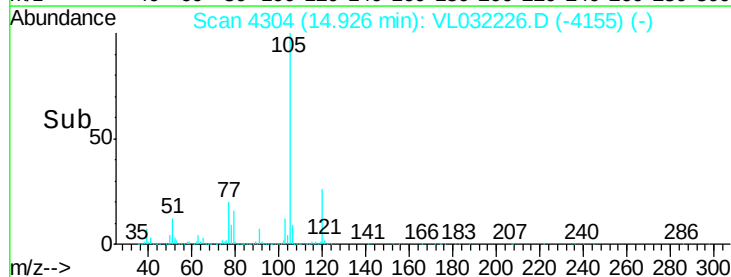
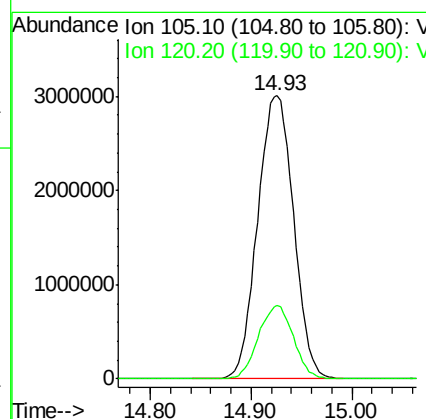
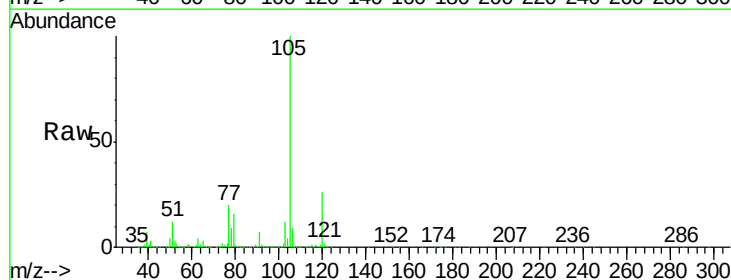
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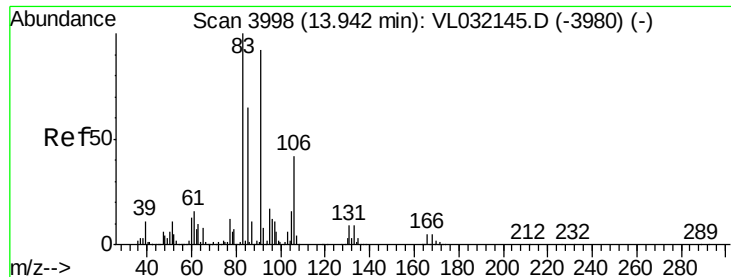
MMDadoda
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#62
Isopropylbenzene
Concen: 9.48 ppbv
RT: 14.93 min Scan# 4304
Delta R.T. -0.02 min
Lab File: VL032226.D
Acq: 6 Jul 2018 9:34

Tgt Ion:105 Resp: 7431719
Ion Ratio Lower Upper
105 100
120 25.2 21.0 31.4





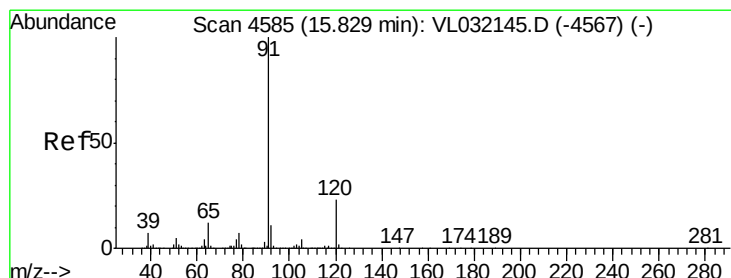
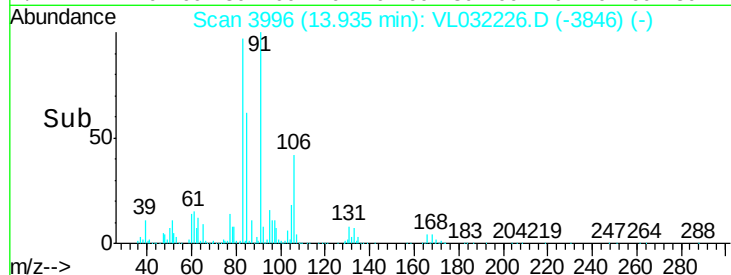
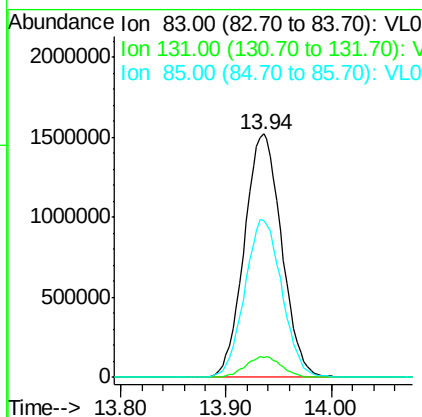
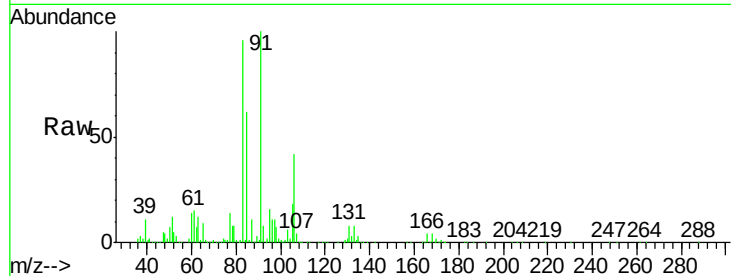
#63
 1,1,2,2-Tetrachloroethane
 Concen: 9.47 ppbv
 RT: 13.94 min Scan# 3996
 Delta R.T. -0.02 min
 Lab File: VL032226.D
 Acq: 6 Jul 2018 9:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	83	Resp	3738749
Ion Ratio	100	Lower	Upper
83	100		
131	8.4	4.6	13.8
85	64.8	32.4	97.2

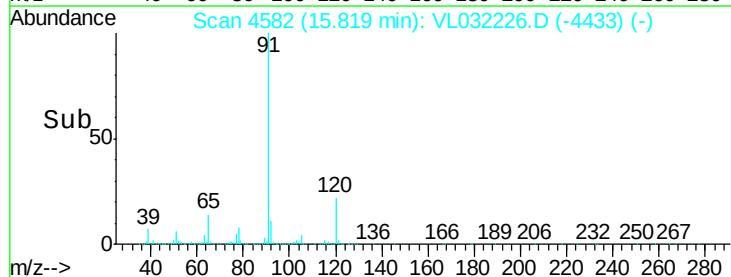
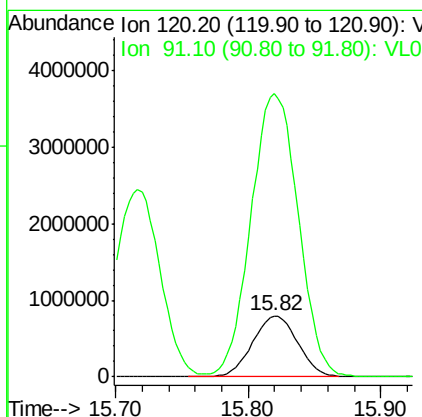
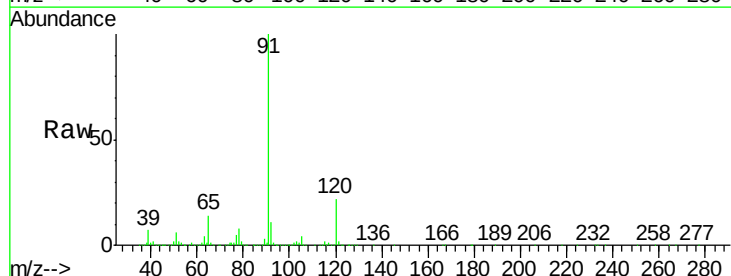
Manual Integrations
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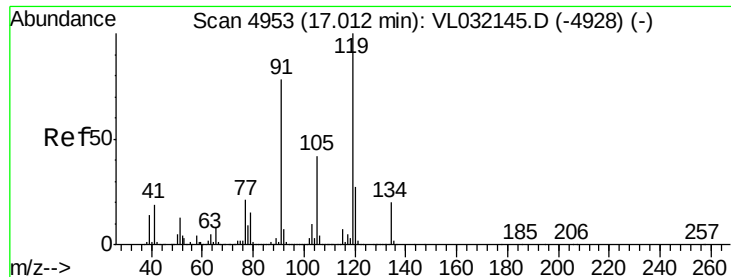
MMDadoda
 7/9/2018 10:48:02 AM



#64
 n-propylbenzene
 Concen: 9.38 ppbv
 RT: 15.82 min Scan# 4582
 Delta R.T. -0.02 min
 Lab File: VL032226.D
 Acq: 6 Jul 2018 9:34

Tgt Ion	120	Resp	1902857
Ion Ratio	100	Lower	Upper
120	100		
91	484.1	357.4	536.0





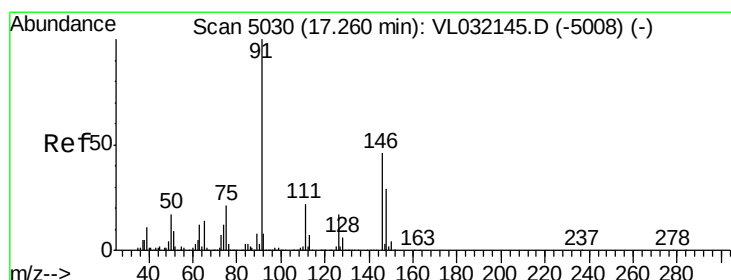
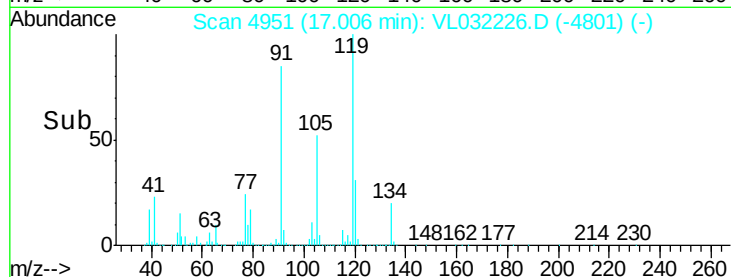
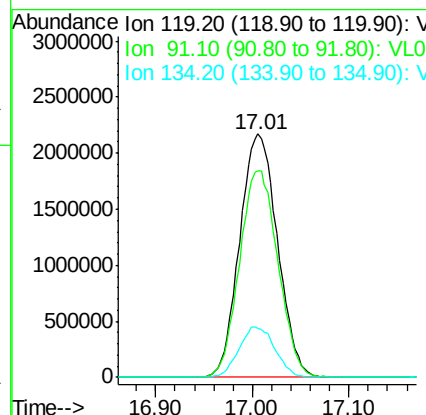
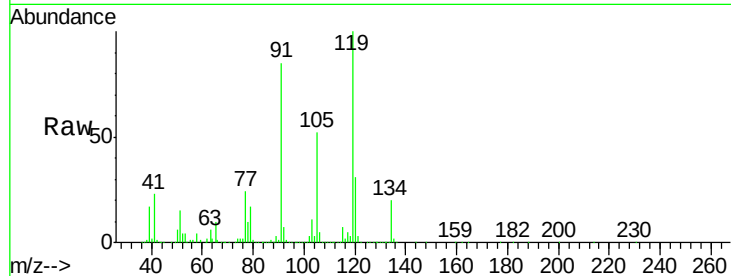
#65
tert-Butylbenzene
Concen: 8.56 ppbv
RT: 17.01 min Scan# 4951
Delta R.T. -0.02 min
Lab File: VL032226.D
Acq: 6 Jul 2018 9:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 119 Resp: 5896891
Ion Ratio Lower Upper
119 100
91 86.5 62.2 93.2
134 19.6 16.2 24.2

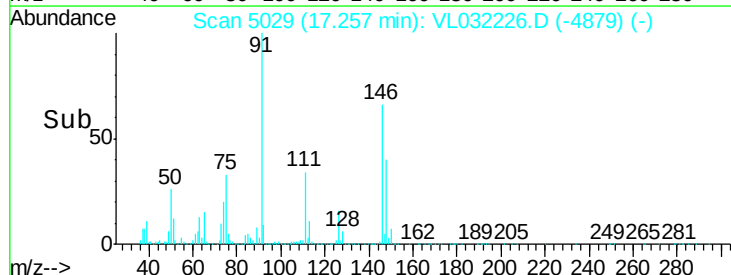
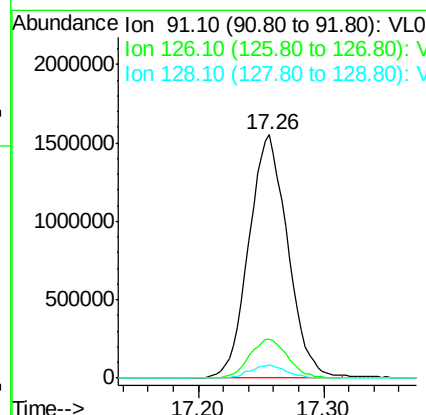
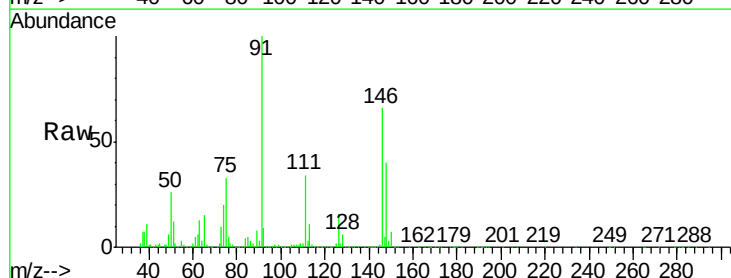
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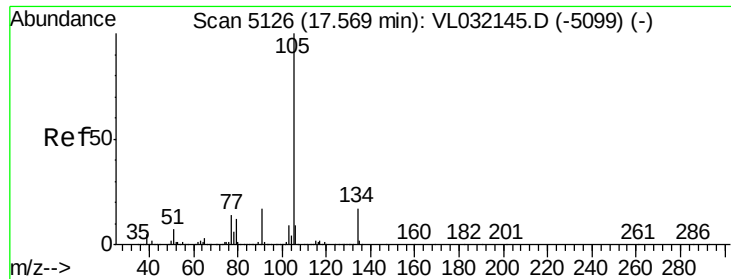
MMDadoda
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#66
Benzyl Chloride
Concen: 7.84 ppbv
RT: 17.26 min Scan# 5029
Delta R.T. -0.02 min
Lab File: VL032226.D
Acq: 6 Jul 2018 9:34

Tgt Ion: 91 Resp: 3337516
Ion Ratio Lower Upper
91 100
126 16.0 15.7 23.5
128 5.2 5.2 7.8





#67

sec-Butylbenzene

Concen: 8.78 ppbv

RT: 17.56 min Scan# 5122

Delta R.T. -0.02 min

Lab File: VL032226.D

Acq: 6 Jul 2018 9:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 105 Resp: 8852657

Ion Ratio Lower Upper

105 100

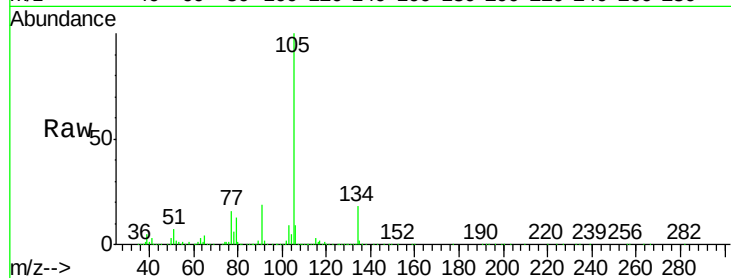
134 17.5 14.7 22.1

Manual Integrations

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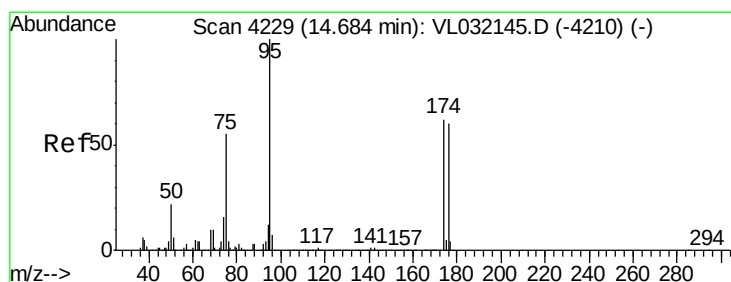
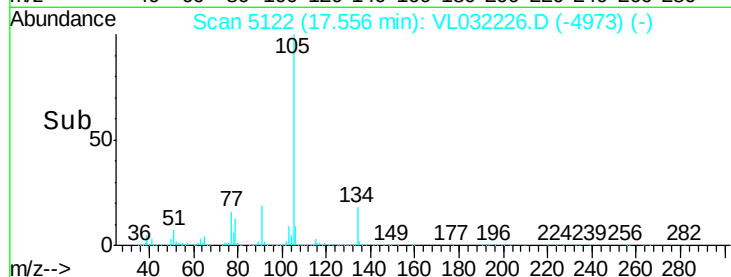
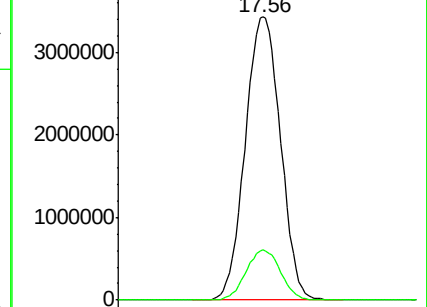
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.54 ppbv

RT: 14.68 min Scan# 4227

Delta R.T. -0.02 min

Lab File: VL032226.D

Acq: 6 Jul 2018 9:34

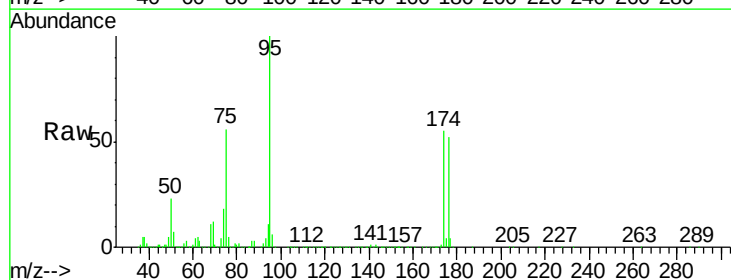
Tgt Ion: 95 Resp: 3187750

Ion Ratio Lower Upper

95 100

174 54.8 52.1 78.1

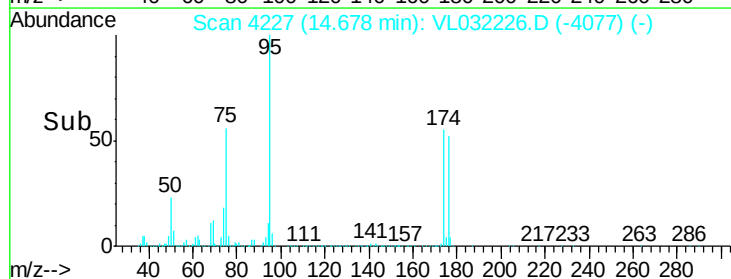
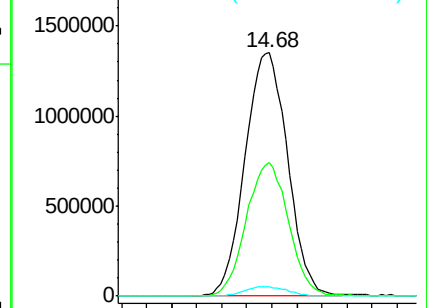
175 4.0 4.0 6.0#

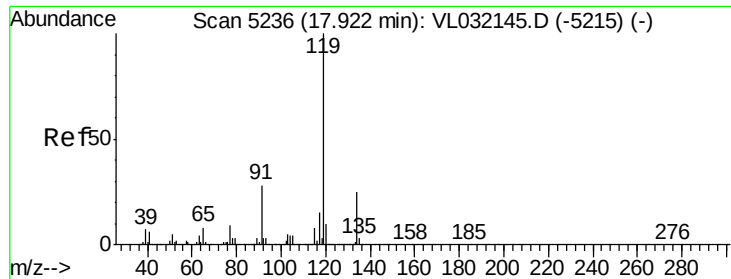


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





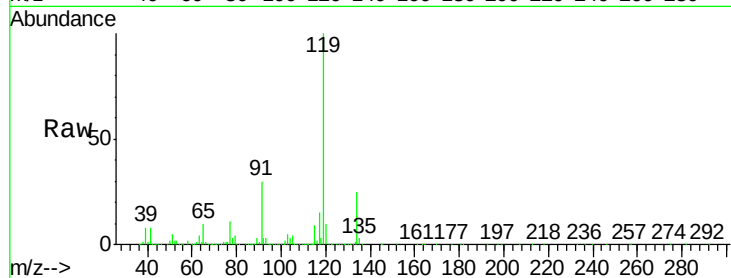
#69
 p-Isopropyltoluene
 Concen: 8.66 ppbv
 RT: 17.91 min Scan# 5236
 Delta R.T. -0.02 min
 Lab File: VL032226.D
 Acq: 6 Jul 2018 9:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

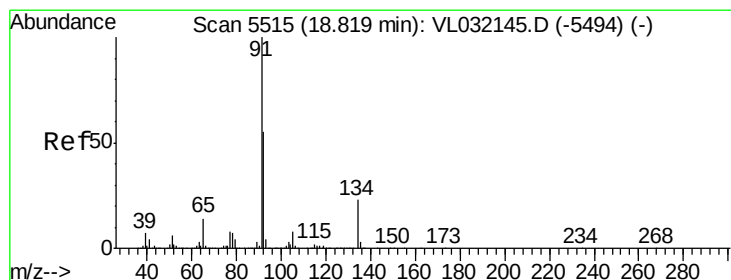
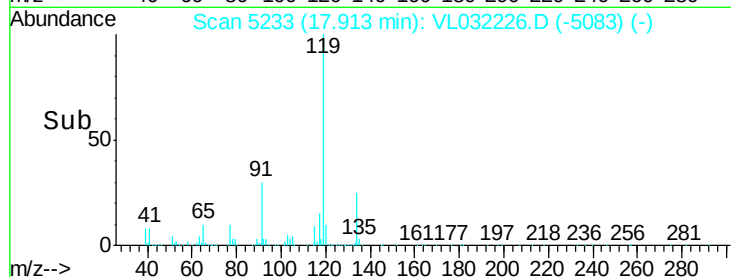
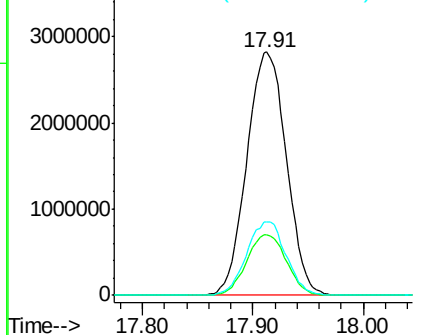
Tot Ion	Ratio	Lower	Upper
119	100		
134	25.0	20.7	31.1
91	30.1	21.8	32.8

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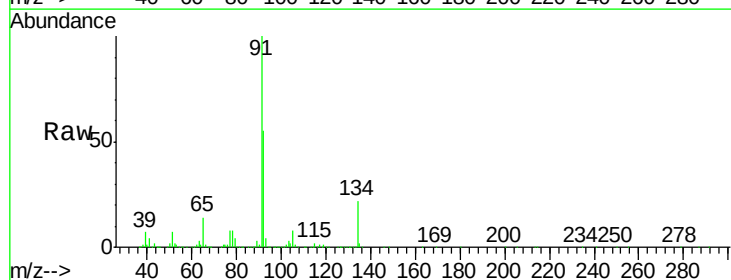


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

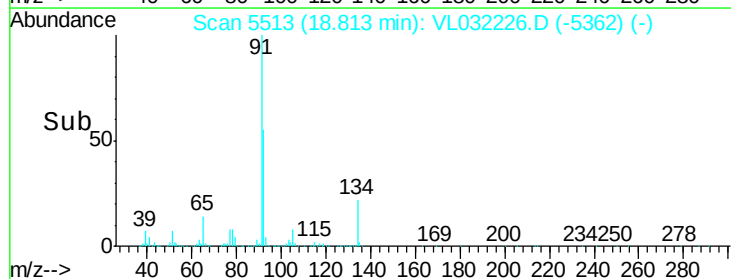
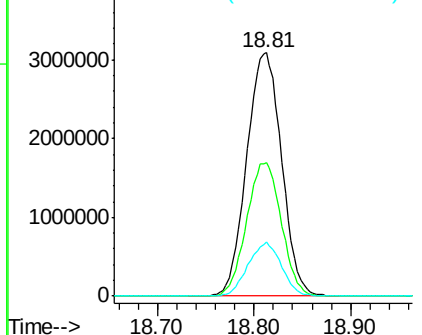


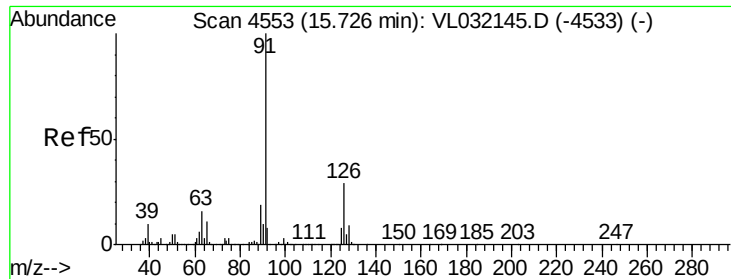
#70
 n-Butylbenzene
 Concen: 9.15 ppbv
 RT: 18.81 min Scan# 5513
 Delta R.T. -0.02 min
 Lab File: VL032226.D
 Acq: 6 Jul 2018 9:34

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.7	43.7	65.5
134	21.2	18.9	28.3



Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 92.10 (91.80 to 92.80): VL0
 Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 9.72 ppbv

RT: 15.72 min Scan# 4550

Delta R.T. -0.02 min

Lab File: VL032226.D

Acq: 6 Jul 2018 9:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 5869299

Ion Ratio Lower Upper

91 100

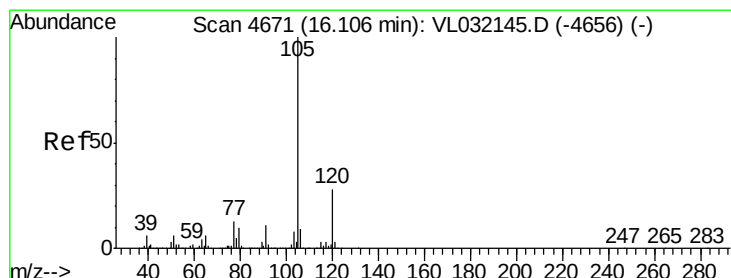
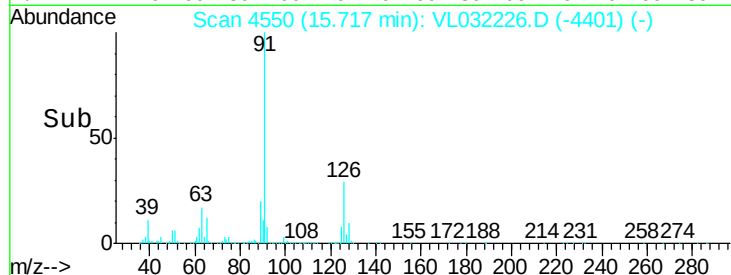
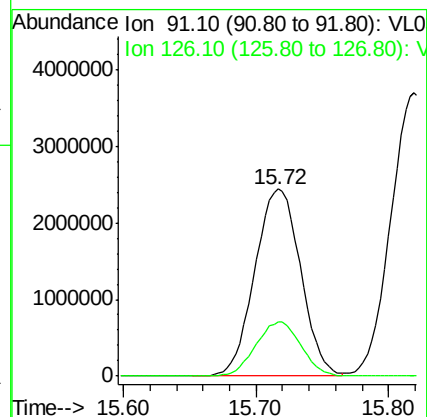
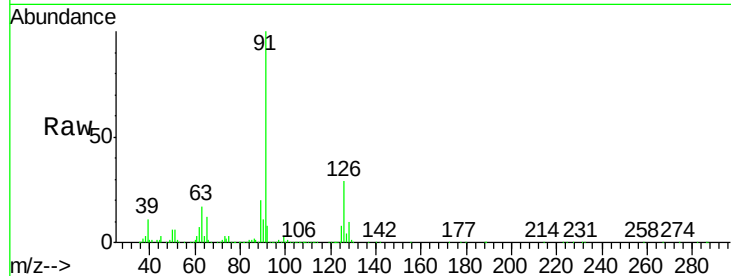
126 28.8 12.8 51.0

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#72

4-Ethyltoluene

Concen: 9.32 ppbv

RT: 16.10 min Scan# 4669

Delta R.T. -0.02 min

Lab File: VL032226.D

Acq: 6 Jul 2018 9:34

Tgt Ion: 105 Resp: 6139157

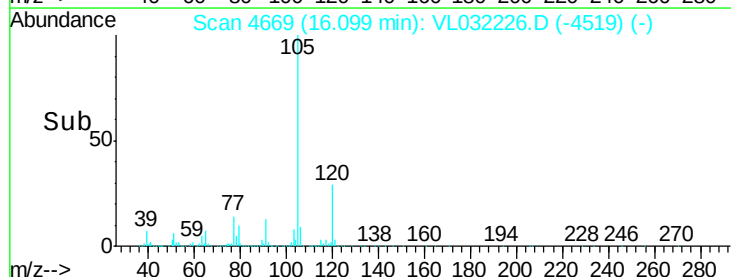
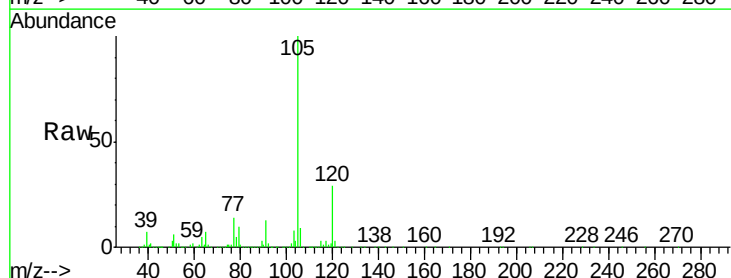
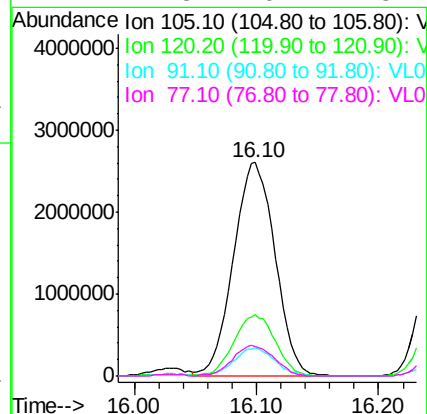
Ion Ratio Lower Upper

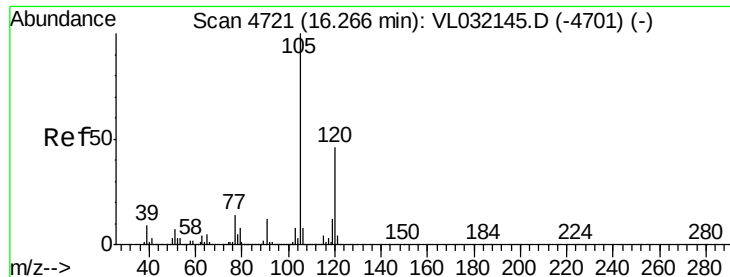
105 100

120 28.6 24.3 36.5

91 12.7 9.4 14.0

77 14.3 10.2 15.2





#73

1,3,5-Trimethylbenzene

Concen: 9.36 ppbv

RT: 16.25 min Scan# 4717

Delta R.T. -0.03 min

Lab File: VL032226.D

Acq: 6 Jul 2018 9:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 5803946

Ion Ratio Lower Upper

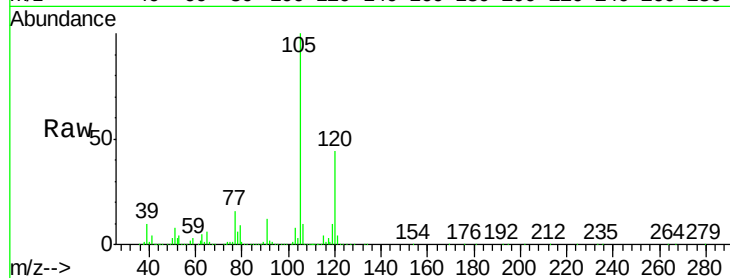
105 100

120 44.1 38.6 57.8

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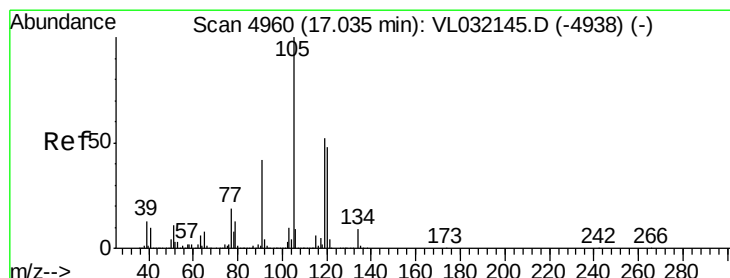
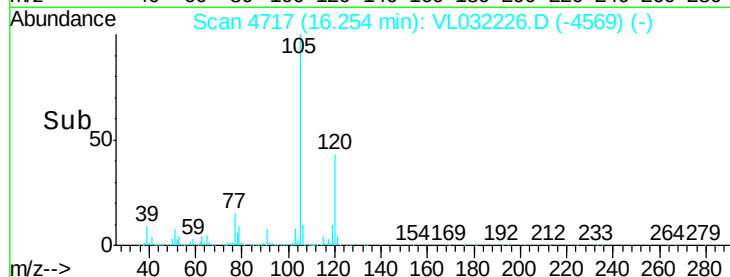
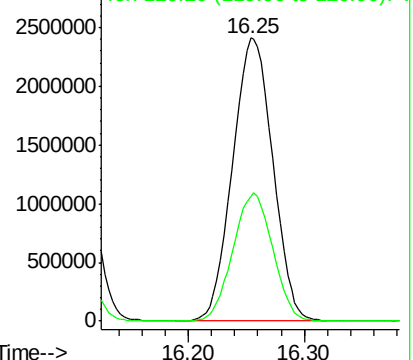
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 8.85 ppbv

RT: 17.03 min Scan# 4957

Delta R.T. -0.02 min

Lab File: VL032226.D

Acq: 6 Jul 2018 9:34

Tgt Ion:105 Resp: 5540433

Ion Ratio Lower Upper

105 100

120 45.1 38.8 58.2

91 47.1 33.6 50.4

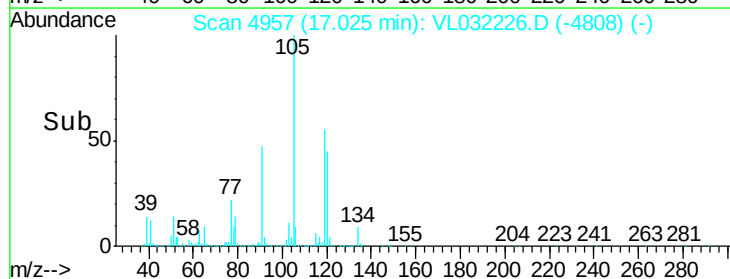
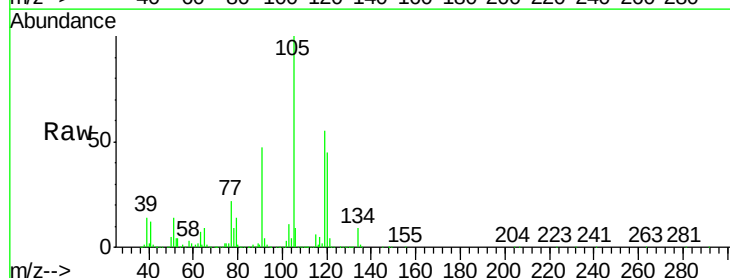
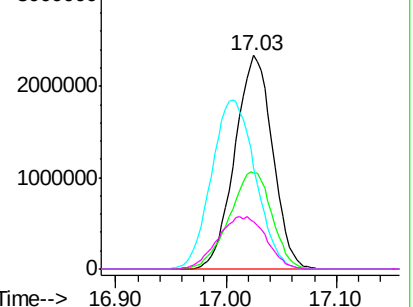
77 22.3 16.0 24.0

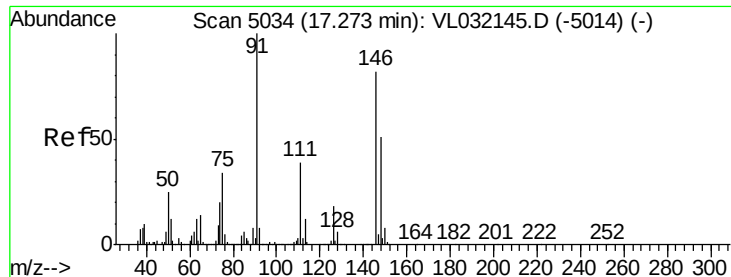
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





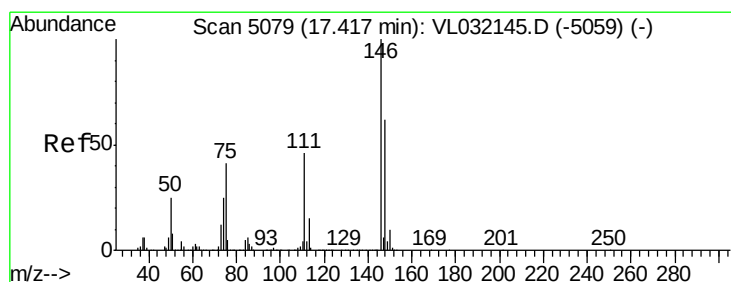
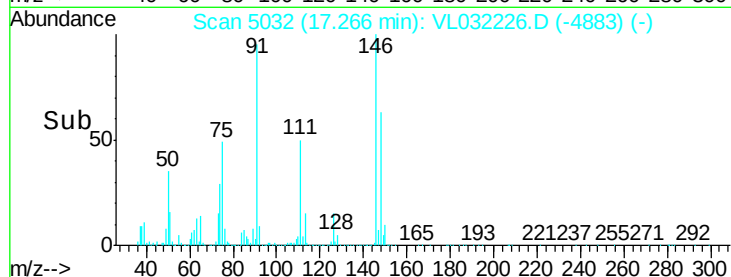
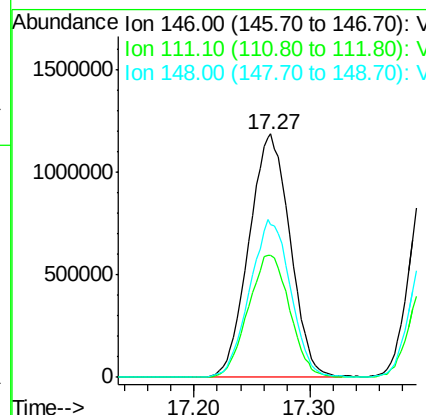
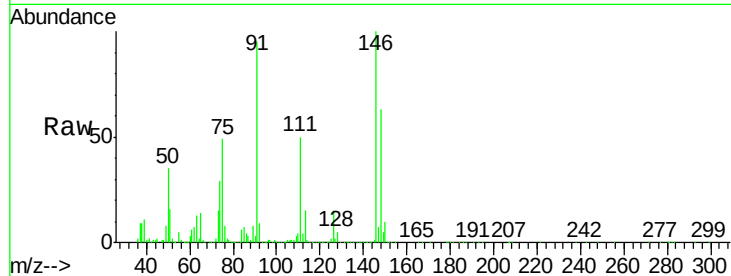
#75
 1,3-Dichlorobenzene
 Concen: 8.24 ppbv
 RT: 17.27 min Scan# 5032
 Delta R.T. -0.02 min
 Lab File: VL032226.D
 Acq: 6 Jul 2018 9:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:146 Resp: 2934874
 Ion Ratio Lower Upper
 146 100
 111 50.7 22.9 68.8
 148 64.2 31.7 95.1

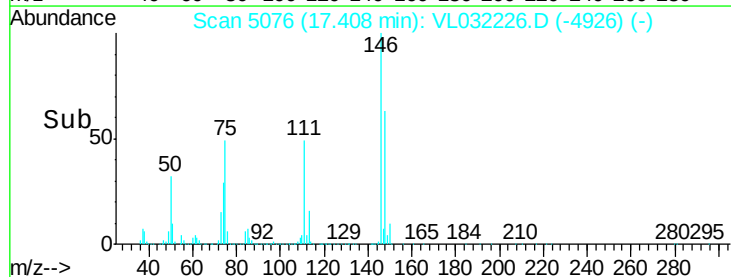
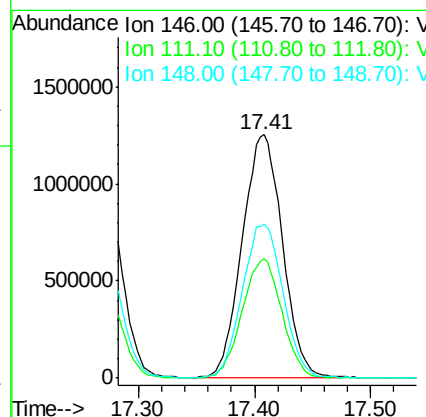
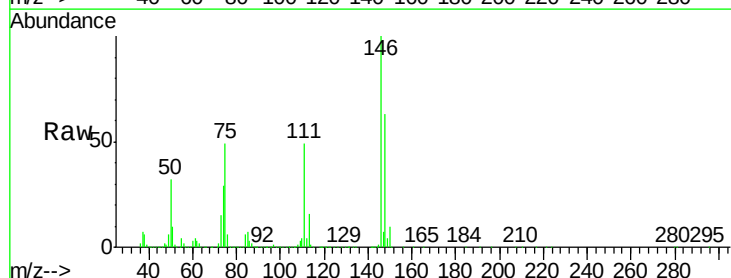
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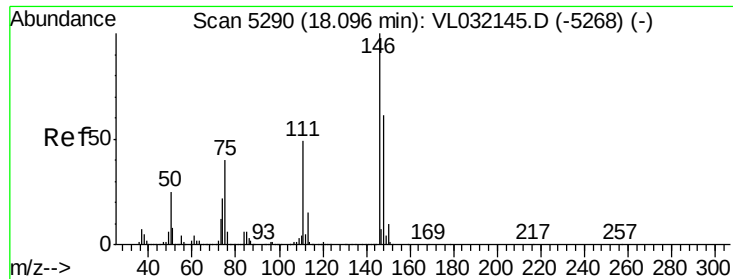
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#76
 1,4-Dichlorobenzene
 Concen: 8.33 ppbv
 RT: 17.41 min Scan# 5076
 Delta R.T. -0.02 min
 Lab File: VL032226.D
 Acq: 6 Jul 2018 9:34

Tgt Ion:146 Resp: 3009484
 Ion Ratio Lower Upper
 146 100
 111 48.6 21.9 65.8
 148 64.5 32.1 96.5





#77

1,2-Dichlorobenzene

Concen: 8.09 ppbv

RT: 18.09 min Scan# 5288

Delta R.T. -0.02 min

Lab File: VL032226.D

Acq: 6 Jul 2018 9:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 2878700

Ion Ratio Lower Upper

146 100

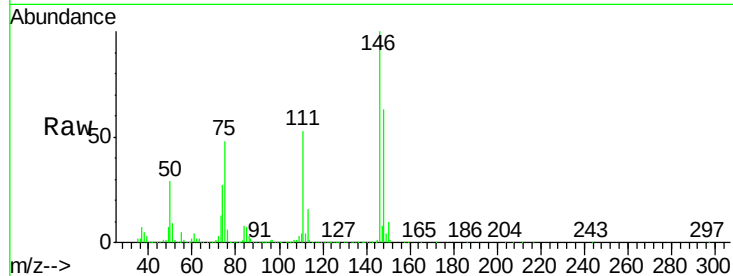
111 51.5 23.4 70.3

148 64.1 32.0 96.0

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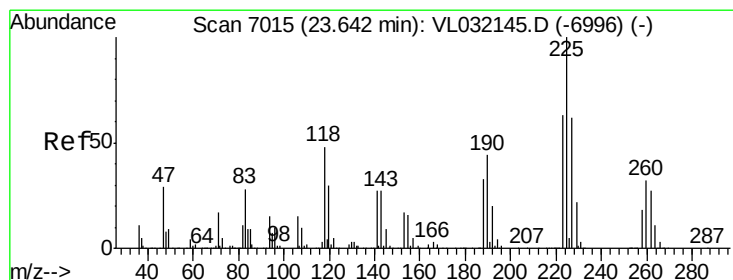
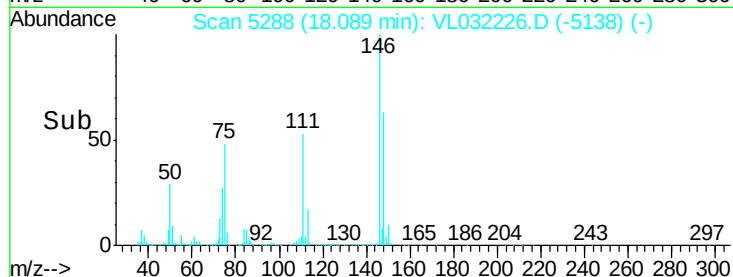
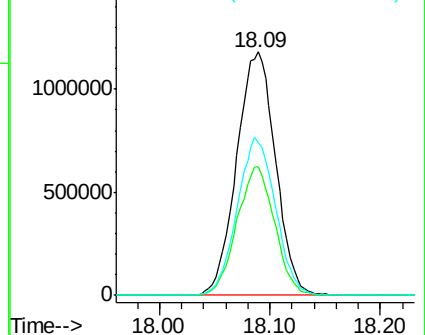
7/9/2018 10:48:02 AM



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



#78

Hexachloro-1,3-Butadiene

Concen: 12.84 ppbv

RT: 23.64 min Scan# 7013

Delta R.T. -0.02 min

Lab File: VL032226.D

Acq: 6 Jul 2018 9:34

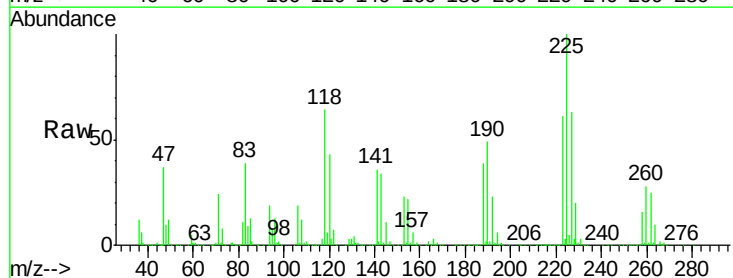
Tgt Ion:225 Resp: 1591003

Ion Ratio Lower Upper

225 100

223 63.2 51.0 76.4

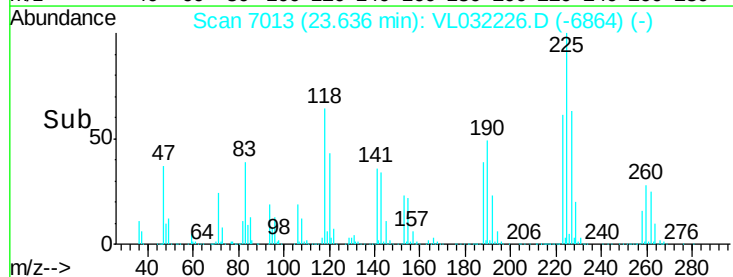
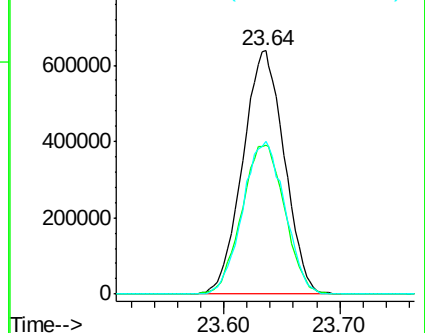
227 63.6 51.4 77.0

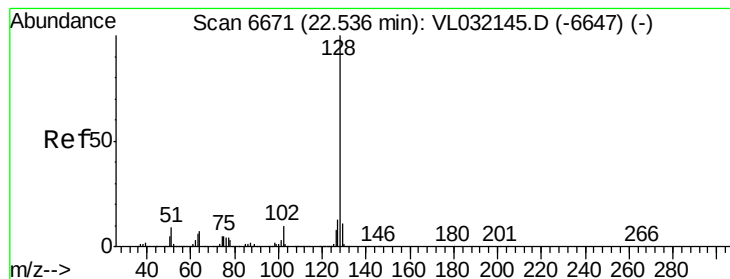


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 7.75 ppbv

RT: 22.53 min Scan# 6668

Delta R.T. -0.03 min

Lab File: VL032226.D

Acq: 6 Jul 2018 9:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:128 Resp: 4410749

Ion Ratio Lower Upper

128 100

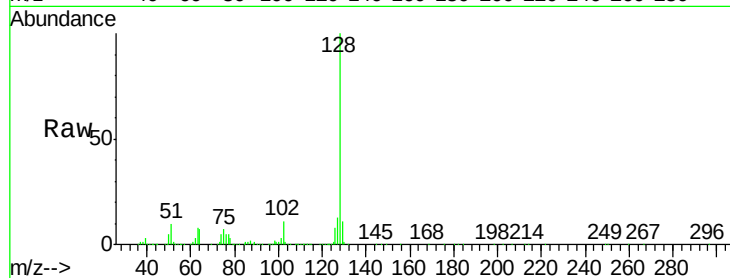
127 13.4 10.5 15.7

129 10.8 9.0 13.6

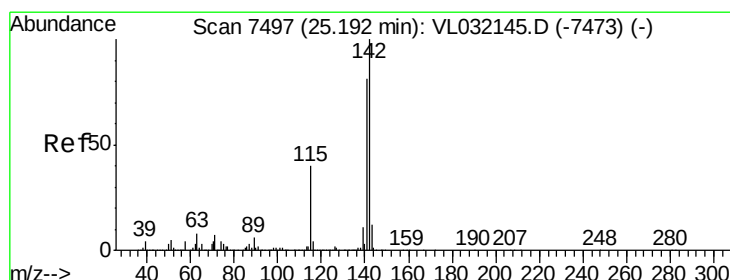
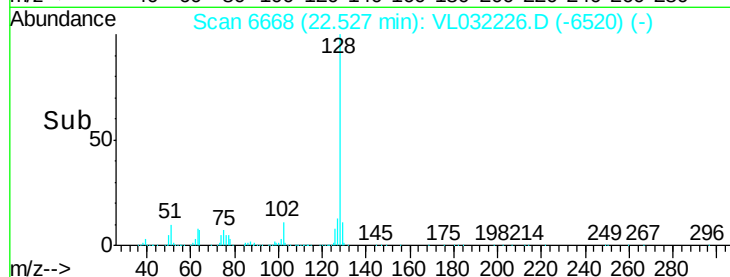
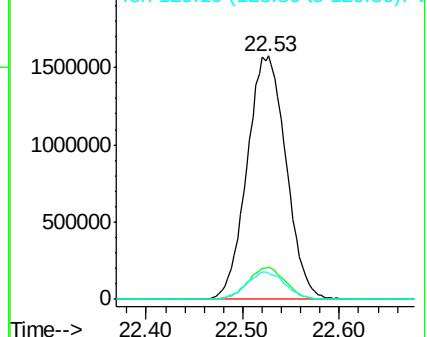
Manual Integrations
APPROVED

MMDadoda

7/9/2018 10:48:02 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: 11.01 ppbv

RT: 25.19 min Scan# 7495

Delta R.T. -0.02 min

Lab File: VL032226.D

Acq: 6 Jul 2018 9:34

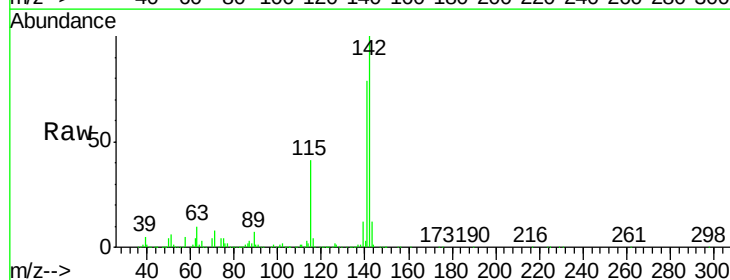
Tgt Ion:142 Resp: 2262161

Ion Ratio Lower Upper

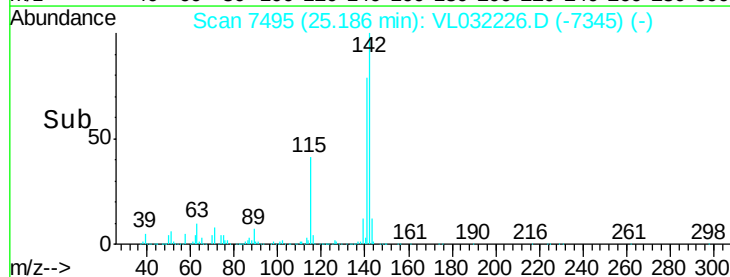
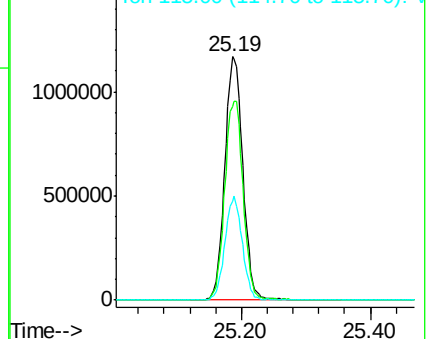
142 100

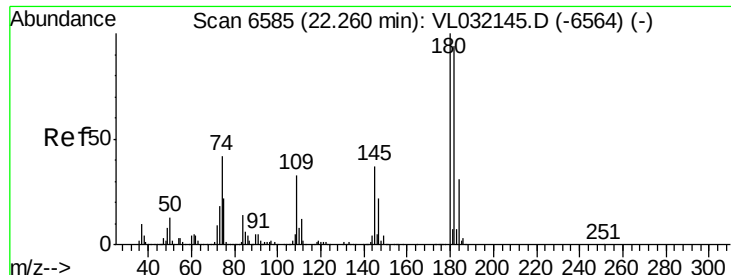
141 83.7 65.8 98.6

115 41.3 29.4 44.0



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: 8.05 ppbv
 RT: 22.25 min Scan# 6583
 Delta R.T. -0.02 min
 Lab File: VL032226.D
 Acq: 6 Jul 2018 9:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.4	76.2	114.4
184	30.1	24.4	36.6

Manual Integrations
 APPROVED

MMDadoda
 7/9/2018 10:48:02 AM

