

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052219\
 Data File : VL033767.D
 Acq On : 23 May 2019 5:45
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 5/28/2019 2:51:35 AM

Quant Time: May 23 07:21:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 1
 QLast Update : Fri May 17 08:15:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	869410	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2215213	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2318153	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1818147	9.67	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.70%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.07	85	1538137	8.395	ppbv 100
3) Chlorodifluoromethane	3.01	51	1108613	11.132	ppbv 99
4) Chloromethane	3.17	50	630851	11.075	ppbv 99
5) Vinyl Chloride	3.29	62	636155	10.964	ppbv 98
6) Bromomethane	3.51	94	405294	11.448	ppbv 95
7) Chloroethane	3.60	64	236335	11.461	ppbv 98
8) Dichlorotetrafluoroethane	3.22	85	1645943	11.143	ppbv 100
9) Propene	3.03	41	481659	11.371	ppbv 100
10) Heptane	8.24	43	1346693	11.227	ppbv 100
11) Trichlorofluoromethane	4.00	101	1948022	11.140	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1287604	10.544	ppbv 100
13) Ethanol	3.64	45	111424	8.139	ppbv 99
14) Bromoethene	3.78	108	528386	11.770	ppbv 99
15) Acetone	3.90	43	1187113	9.841	ppbv 100
16) 1,3-Butadiene	3.36	39	569567	11.857	ppbv 100
17) tert-Butyl alcohol	4.35	59	1180590	12.104	ppbv 99
18) 1,1-Dichloroethene	4.35	96	579593	11.245	ppbv 100
19) Isopropyl Alcohol	4.02	45	917305	11.794	ppbv # 98
20) Methylene Chloride	4.40	84	491512	10.583	ppbv 98
21) Allyl Chloride	4.47	41	856511	11.384	ppbv 100
22) trans-1,2-Dichloroethene	4.96	96	596269	11.286	ppbv 94
23) Vinyl Acetate	5.15	43	1731493	10.887	ppbv 98
24) 1,1-Dichloroethane	5.09	63	1209372	10.003	ppbv 99
25) Ethyl Acetate	5.76	43	2167444	10.229	ppbv 100
26) Hexane	5.78	57	946236	10.387	ppbv 98
27) Carbon Disulfide	4.62	76	1434084	11.475	ppbv 99
28) Methyl tert-Butyl Ether	5.11	73	1558565	10.495	ppbv 100
29) Chloroform	5.84	83	1642748	9.790	ppbv 98
30) Cyclohexane	7.24	84	834169	10.892	ppbv 99
31) cis-1,2-Dichloroethene	5.64	61	972406	10.766	ppbv 98
32) 1,1,1-Trichloroethane	6.62	97	1730302	10.327	ppbv 99
34) 2-Butanone	5.32	43	1387666	10.106	ppbv 99
35) Carbon Tetrachloride	7.13	117	1870232	10.540	ppbv 99
36) Benzene	7.00	78	2047435	10.161	ppbv 99
37) 1,2-Dichloroethane	6.41	62	1304456	10.035	ppbv 99
38) Trichloroethene	7.96	130	888139	11.878	ppbv 99
39) 1,2-Dichloropropane	7.73	63	797042	10.609	ppbv 98
40) 1,4-Dioxane	7.95	88	351236	11.176	ppbv # 96
41) Tetrahydrofuran	6.14	42	767874	9.981	ppbv 99
42) Bromodichloromethane	7.91	83	1922267	10.802	ppbv 93
43) Methyl Methacrylate	8.13	69	871567	11.753	ppbv 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.98	57	3653377	10.727	ppbv	99
45) t-1,3-Dichloropropene	9.41	75	1123425	11.950	ppbv	99
46) cis-1,3-Dichloropropene	8.83	75	1261914	11.463	ppbv	99
47) 1,1,2-Trichloroethane	9.61	97	874330	10.244	ppbv	97
48) Dibromochloromethane	10.44	129	1622163	10.969	ppbv	99
49) Bromoform	13.20	173	1510924	12.143	ppbv	100
50) 4-Methyl-2-Pentanone	8.86	43	2257858	10.691	ppbv	100
51) 2-Hexanone	10.26	43	1863900	11.308	ppbv	100
52) Tetrachloroethene	11.37	164	793359	11.200	ppbv	97
53) Toluene	9.94	91	2462226	11.329	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1381034	10.603	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.27	131	1077305	10.043	ppbv	98
57) Chlorobenzene	12.30	112	1898874	9.951	ppbv	99
58) Ethyl Benzene	12.86	91	3376939	11.000	ppbv	99
59) m/p-Xylene	13.14	91	5964274m	22.226	ppbv	
60) o-Xylene	13.84	91	2835791	10.483	ppbv	99
61) Styrene	13.68	104	2121217	11.647	ppbv	99
62) Isopropylbenzene	14.82	105	3839975	10.541	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	1978079	10.055	ppbv	100
64) n-propylbenzene	15.72	120	993039	10.538	ppbv	98
65) tert-Butylbenzene	16.90	119	3510101	10.553	ppbv	99
66) Benzyl Chloride	17.15	91	1785342	11.270	ppbv	100
67) sec-Butylbenzene	17.45	105	4943916	10.620	ppbv	99
69) p-Isopropyltoluene	17.81	119	4082837	10.611	ppbv	99
70) n-Butylbenzene	18.71	91	4232496	10.257	ppbv	99
71) 2-Chlorotoluene	15.61	91	2896638	10.717	ppbv	100
72) 4-Ethyltoluene	15.99	105	3313255	10.712	ppbv	99
73) 1,3,5-Trimethylbenzene	16.15	105	3210095	10.637	ppbv	98
74) 1,2,4-Trimethylbenzene	16.92	105	3376811	10.282	ppbv	98
75) 1,3-Dichlorobenzene	17.16	146	1947079	9.675	ppbv	99
76) 1,4-Dichlorobenzene	17.30	146	1913921	10.006	ppbv	100
77) 1,2-Dichlorobenzene	17.98	146	1877239	9.927	ppbv	100
78) Hexachloro-1,3-Butadiene	23.53	225	1150724	8.048	ppbv	99
79) Naphthalene	22.40	128	2820756	9.247	ppbv	99
80) Naphthalene, 2-methyl-	25.10	142	954372	8.234	ppbv	96
81) 1,2,4-Trichlorobenzene	22.12	180	1600765	8.961	ppbv	99

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

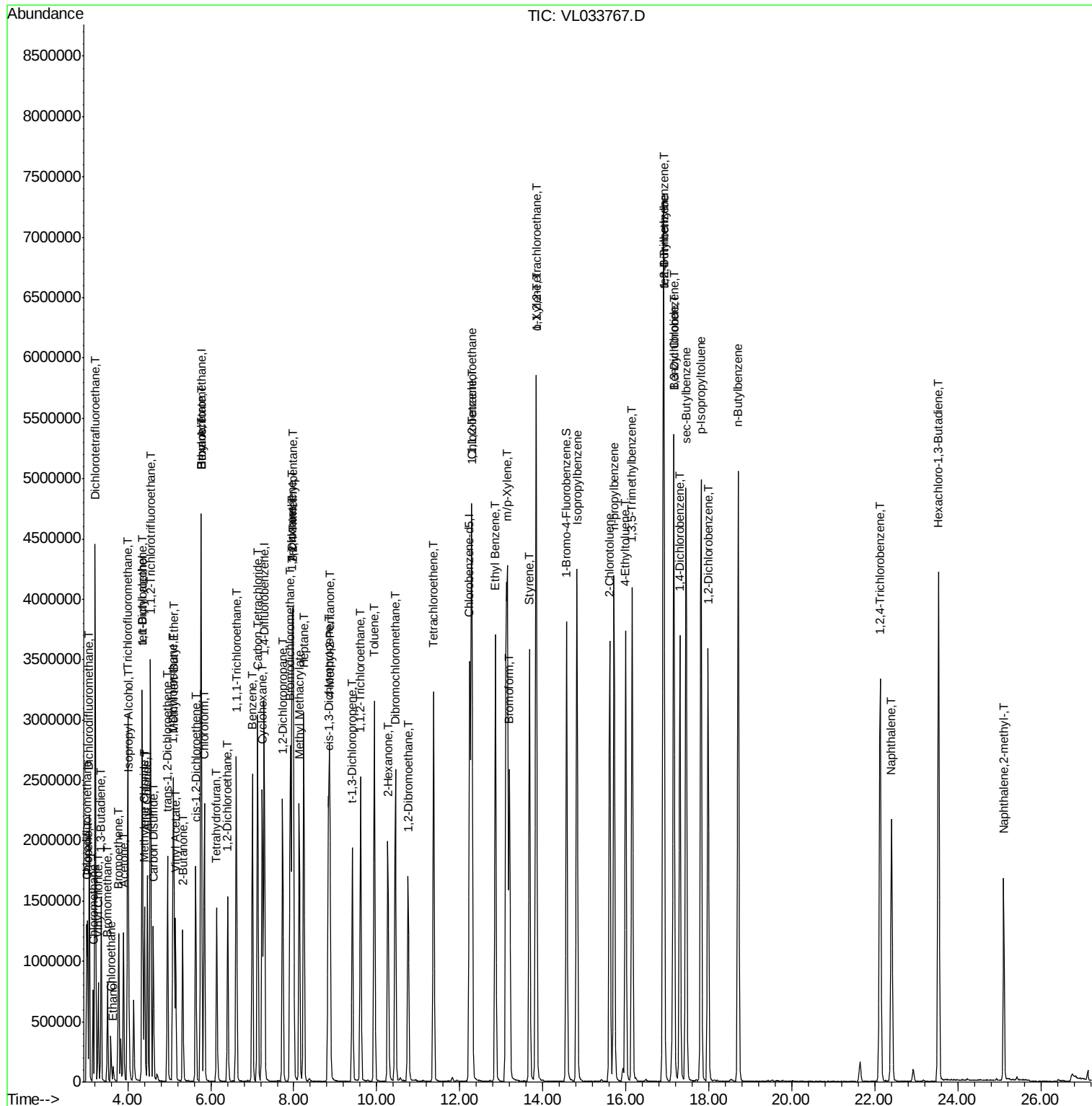
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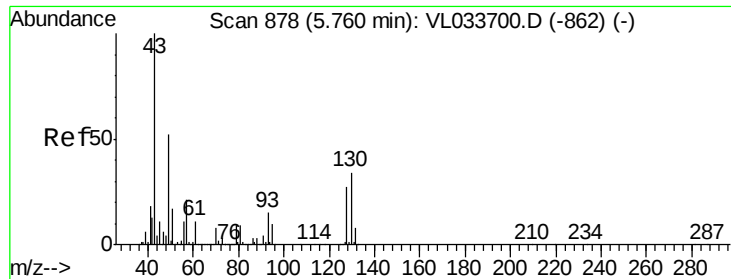
Instrument :
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QLast Update : Fri May 17 08:15:41 2019
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. 0.00 min

Lab File: VL033767.D

Acq: 23 May 2019 5:45

Instrument :

MSVOA_L

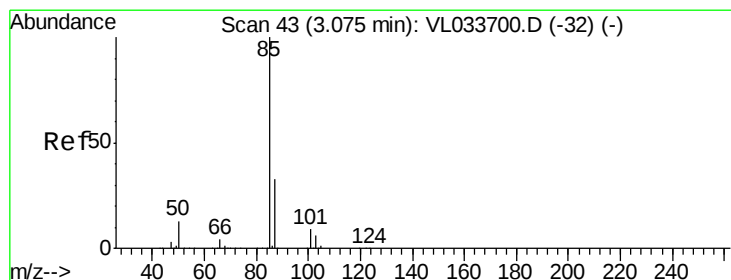
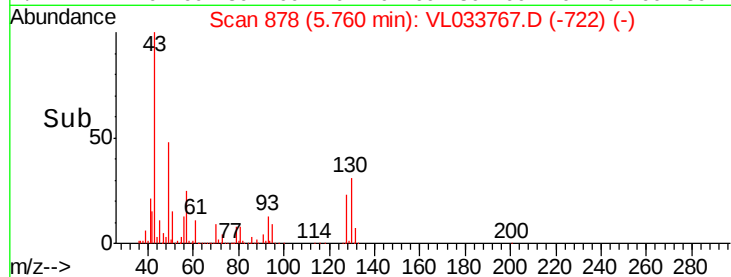
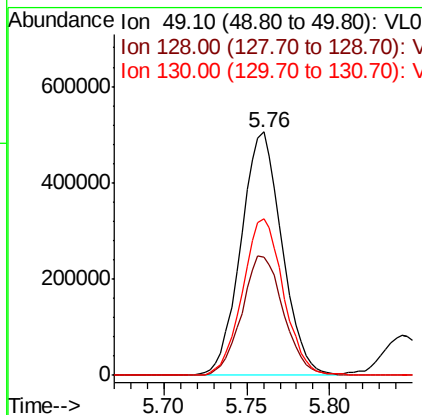
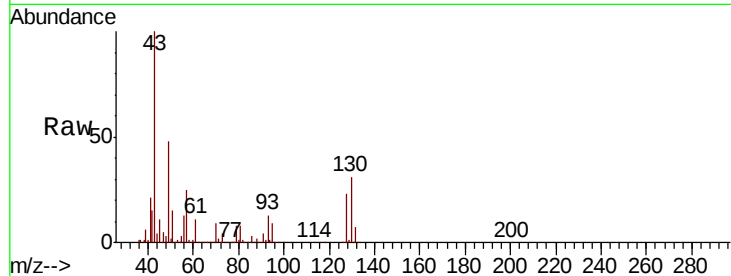
ClientSampleId :

VSTDCCC010

Tot Ion:	49	Resp:	869410
Ion	Ratio	Lower	Upper
49	100		
128	49.6	25.2	75.6
130	64.3	32.5	97.5

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#2

Dichlorodifluoromethane

Concen: 8.395 ppbv

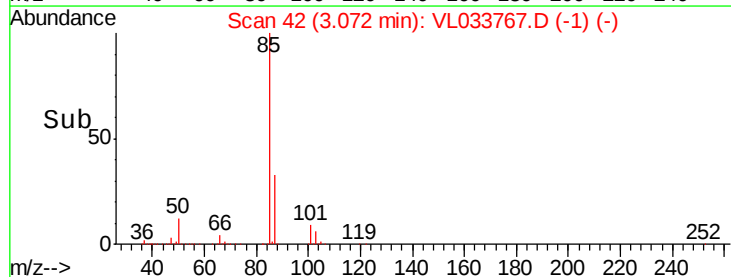
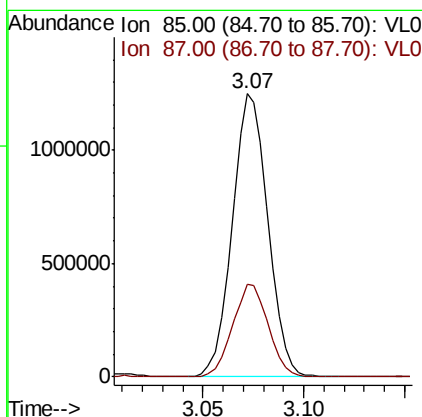
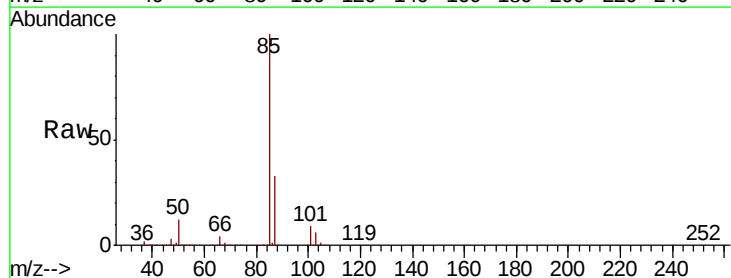
RT: 3.07 min Scan# 42

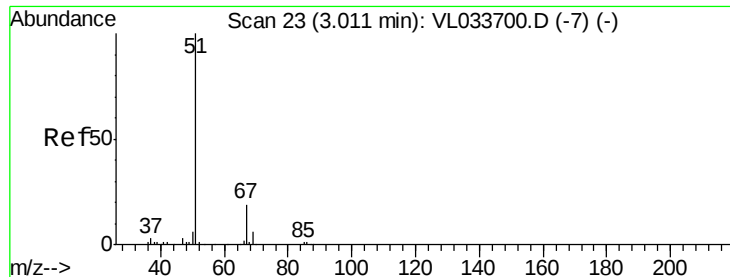
Delta R.T. -0.00 min

Lab File: VL033767.D

Acq: 23 May 2019 5:45

Tgt Ion:	85	Resp:	1538137
Ion	Ratio	Lower	Upper
85	100		
87	32.7	26.3	39.5





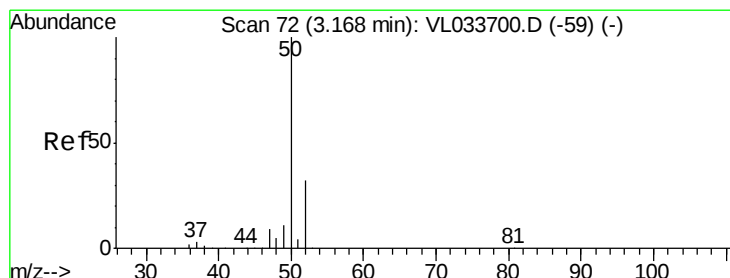
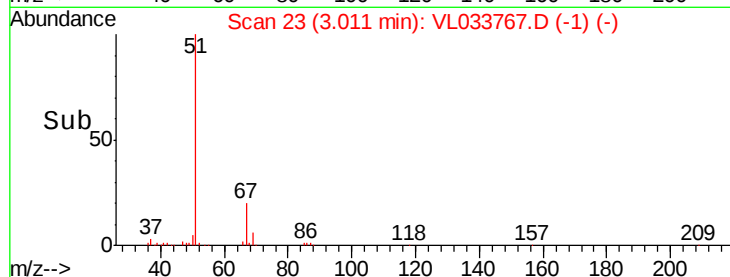
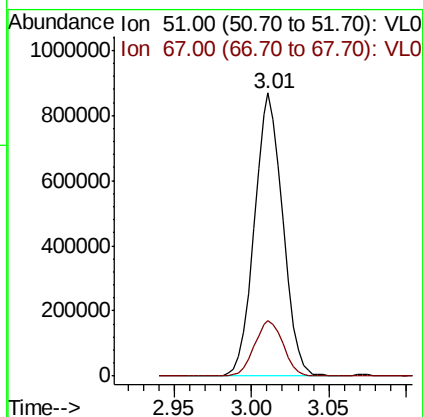
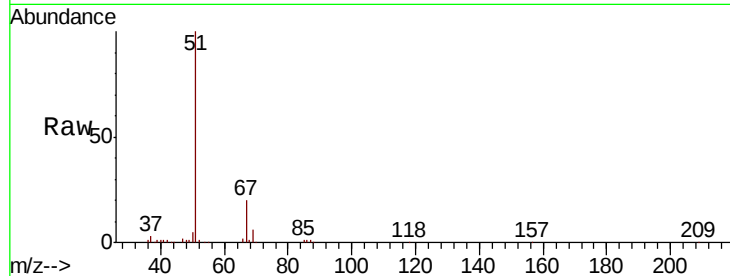
#3
Chlorodifluoromethane
Concen: 11.132 ppbv
RT: 3.01 min Scan# 23
Delta R.T. 0.00 min
Lab File: VL033767.D
Acq: 23 May 2019 5:45

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ClientSampleId :
VSTDCCC010

Tot Ion: 51 Resp: 1108613
Ion Ratio Lower Upper
51 100
67 20.0 15.6 23.4

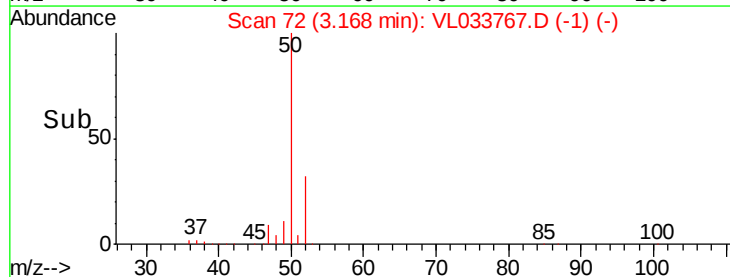
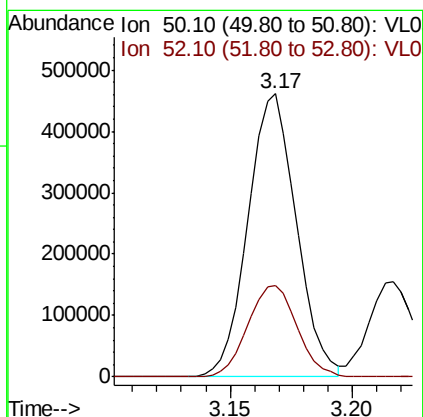
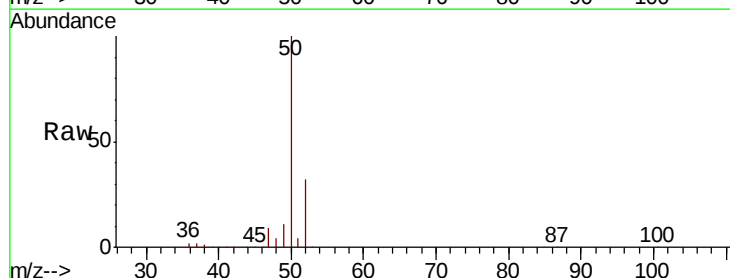
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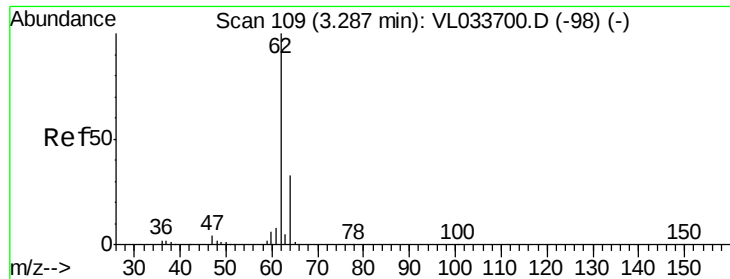
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#4
Chloromethane
Concen: 11.075 ppbv
RT: 3.17 min Scan# 72
Delta R.T. 0.00 min
Lab File: VL033767.D
Acq: 23 May 2019 5:45

Tgt Ion: 50 Resp: 630851
Ion Ratio Lower Upper
50 100
52 32.5 25.7 38.5





#5

Vinyl Chloride

Concen: 10.964 ppbv

RT: 3.29 min Scan# 109

Delta R.T. 0.00 min

Lab File: VL033767.D

Acq: 23 May 2019 5:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 62 Resp: 636155

Ion Ratio Lower Upper

62 100

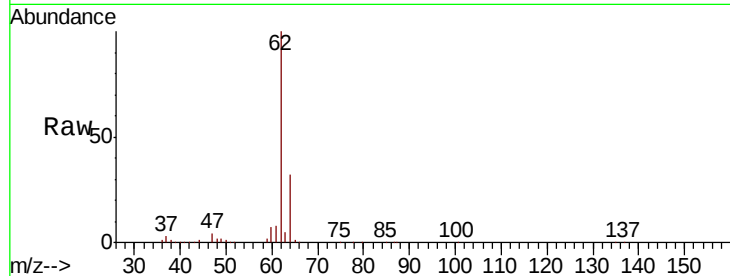
64 31.7 26.4 39.6

Manual Integrations

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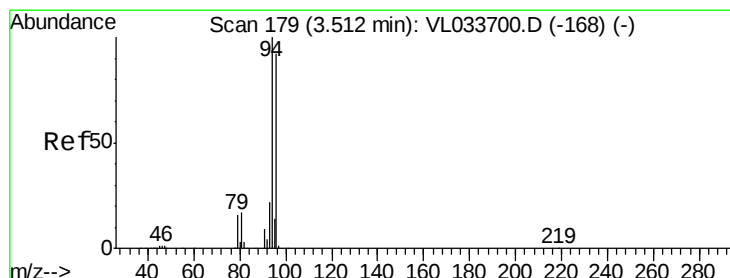
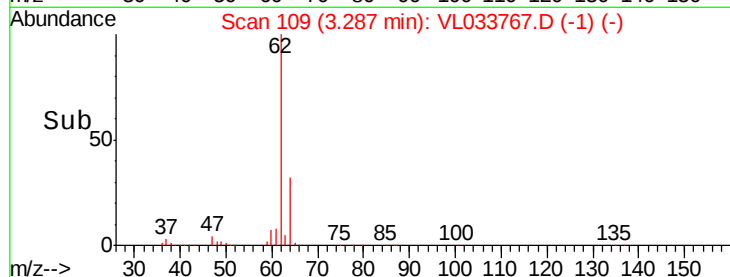
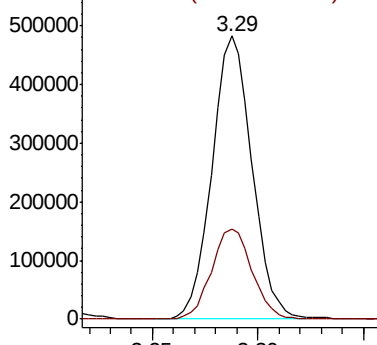
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 11.448 ppbv

RT: 3.51 min Scan# 178

Delta R.T. -0.00 min

Lab File: VL033767.D

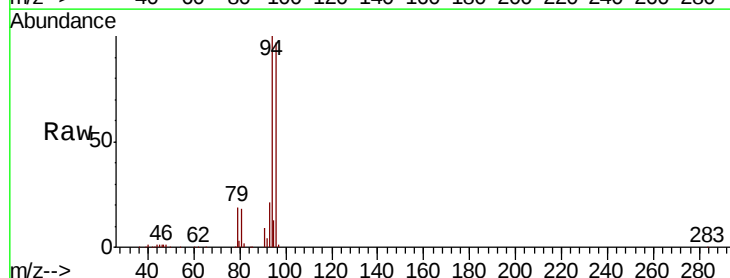
Acq: 23 May 2019 5:45

Tgt Ion: 94 Resp: 405294

Ion Ratio Lower Upper

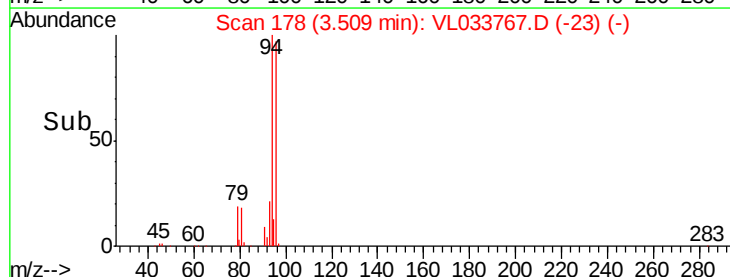
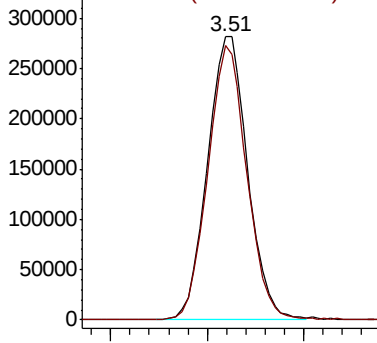
94 100

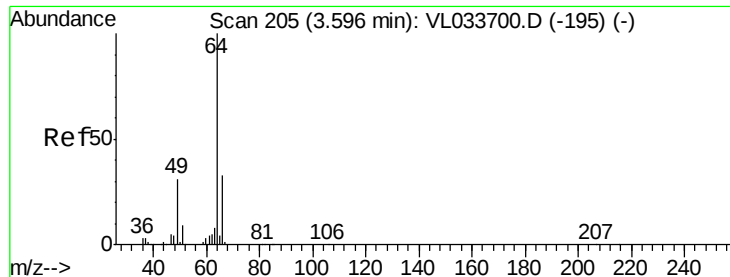
96 96.9 73.6 110.4



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 11.461 ppbv

RT: 3.60 min Scan# 205

Delta R.T. 0.00 min

Lab File: VL033767.D

Acq: 23 May 2019 5:45

Instrument :

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ClientSampleId :

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Tot Ion: 64 Resp: 236335

Ion Ratio Lower Upper

64 100

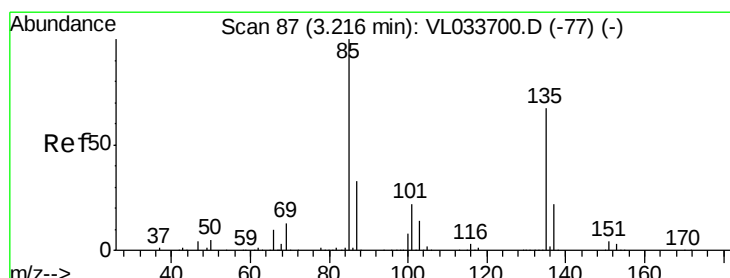
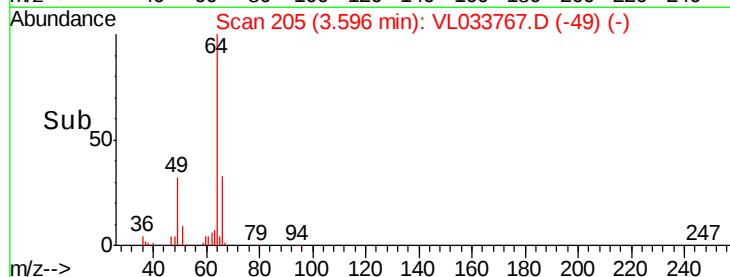
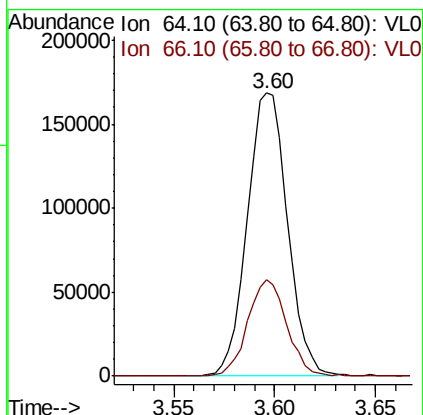
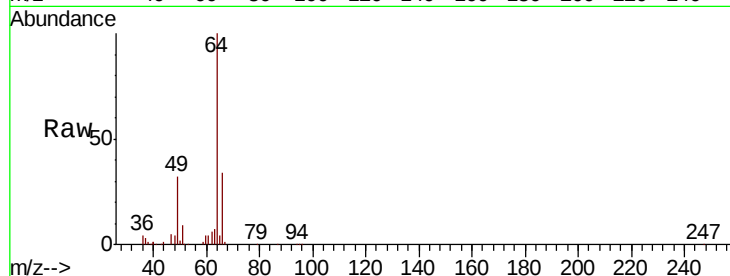
66 34.2 26.6 40.0

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#8

Dichlorotetrafluoroethane

Concen: 11.143 ppbv

RT: 3.22 min Scan# 87

Delta R.T. 0.00 min

Lab File: VL033767.D

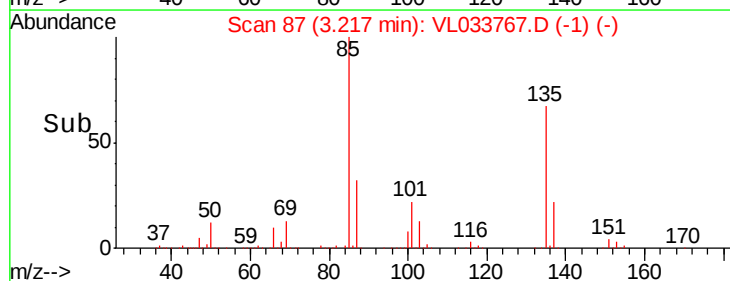
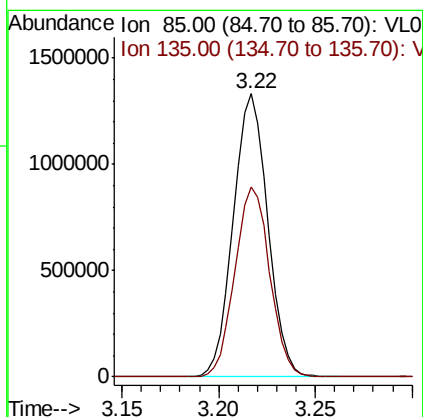
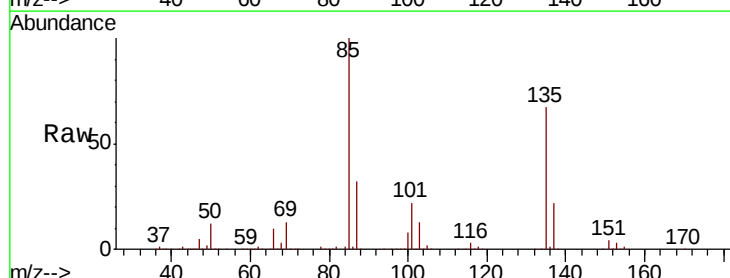
Acq: 23 May 2019 5:45

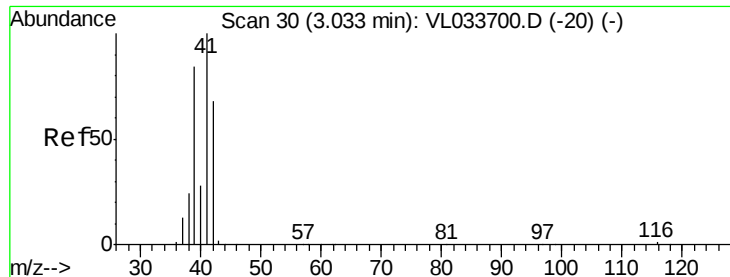
Tgt Ion: 85 Resp: 1645943

Ion Ratio Lower Upper

85 100

135 68.0 54.5 81.7





#9

Propene

Concen: 11.371 ppbv

RT: 3.03 min Scan# 30

Delta R.T. 0.00 min

Lab File: VL033767.D

Acq: 23 May 2019 5:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 41 Resp: 481659

Ion Ratio Lower Upper

41 100

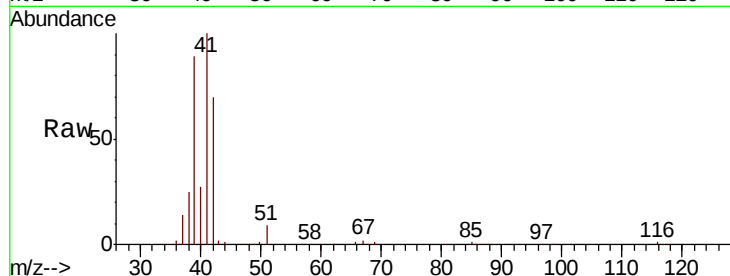
42 70.2 56.1 84.1

Manual Integrations

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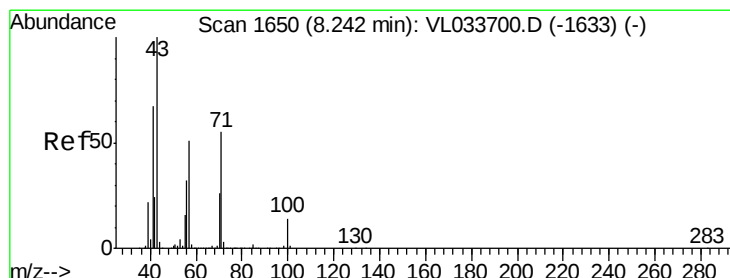
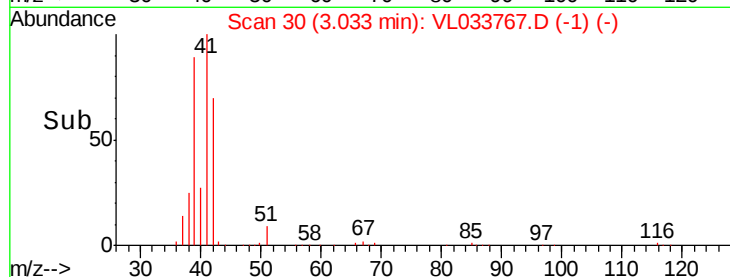
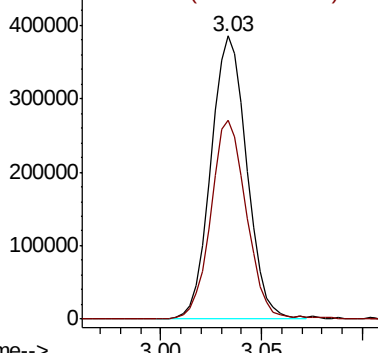
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 11.227 ppbv

RT: 8.24 min Scan# 1650

Delta R.T. 0.00 min

Lab File: VL033767.D

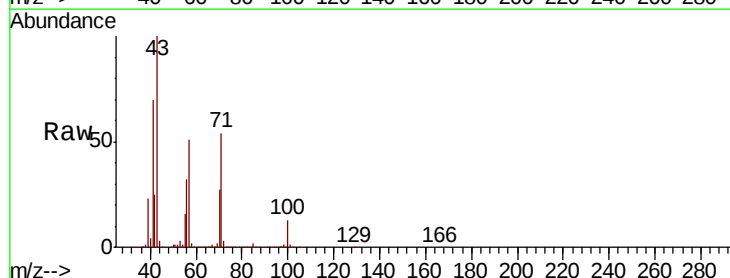
Acq: 23 May 2019 5:45

Tgt Ion: 43 Resp: 1346693

Ion Ratio Lower Upper

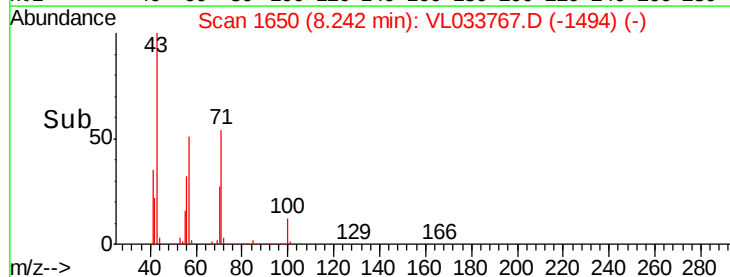
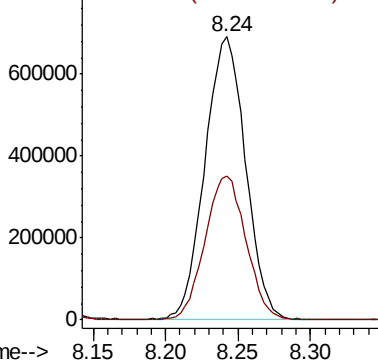
43 100

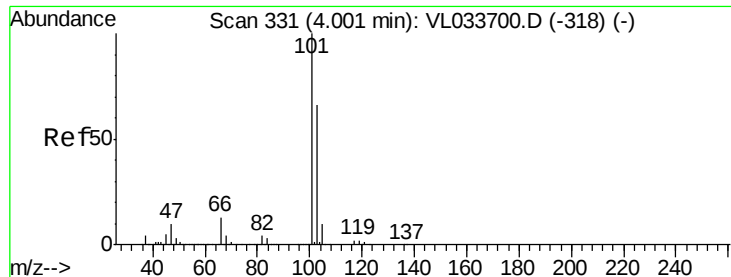
57 51.6 41.4 62.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 11.140 ppbv

RT: 4.00 min Scan# 331

Delta R.T. 0.00 min

Lab File: VL033767.D

Acq: 23 May 2019 5:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:101 Resp: 1948022

Ion Ratio Lower Upper

101 100

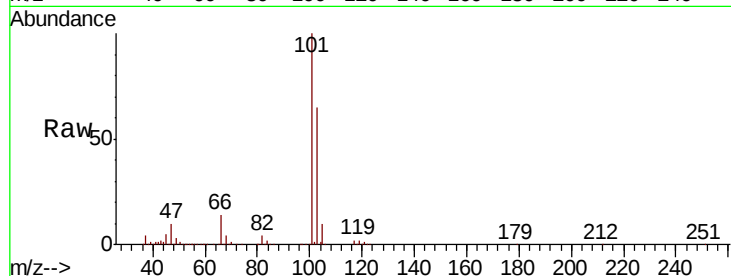
103 64.9 52.6 78.8

Manual Integrations

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Abundance Ion 101.00 (100.70 to 101.70): V

1500000 Ion 103.00 (102.70 to 103.70): V

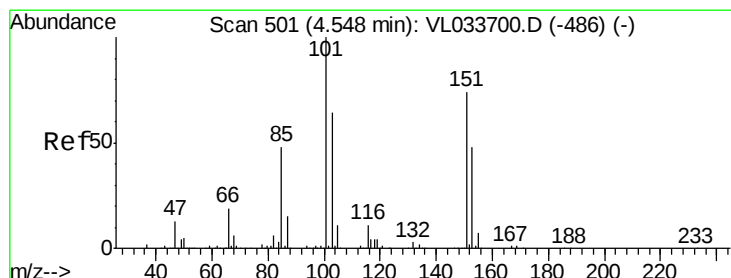
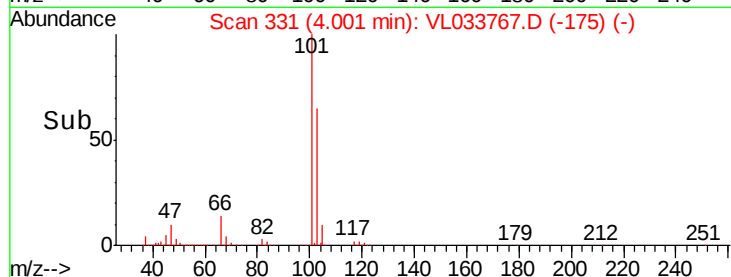
4.00

1000000

500000

0

Time-->



#12

1,1,2-Trichlorotrifluoroethane

Concen: 10.544 ppbv

RT: 4.55 min Scan# 501

Delta R.T. 0.00 min

Lab File: VL033767.D

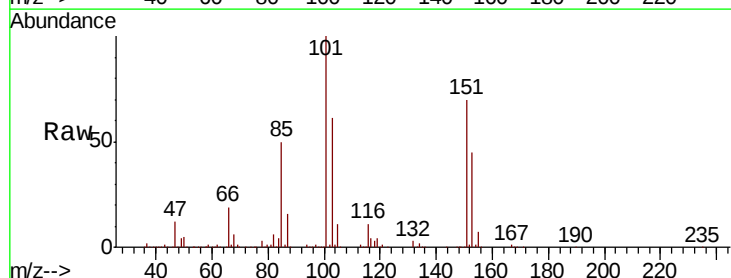
Acq: 23 May 2019 5:45

Tgt Ion:101 Resp: 1287604

Ion Ratio Lower Upper

101 100

151 72.5 58.2 87.4



Abundance Ion 101.00 (100.70 to 101.70): V

800000 Ion 151.00 (150.70 to 151.70): V

4.55

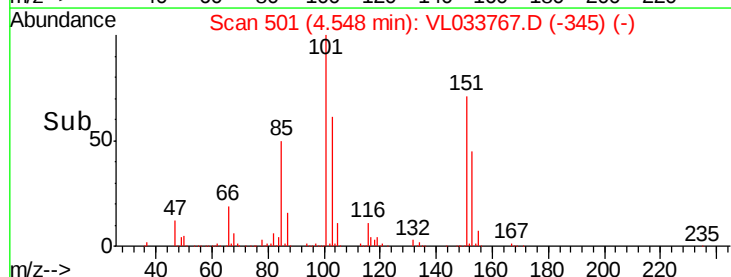
600000

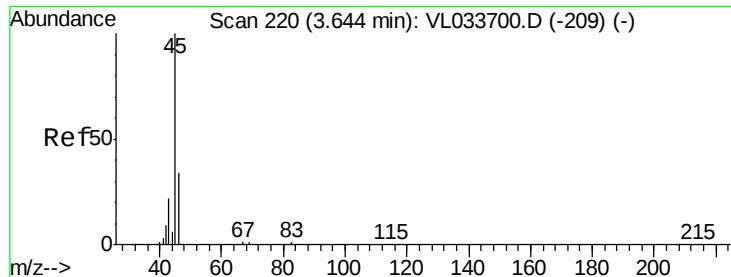
400000

200000

0

Time-->





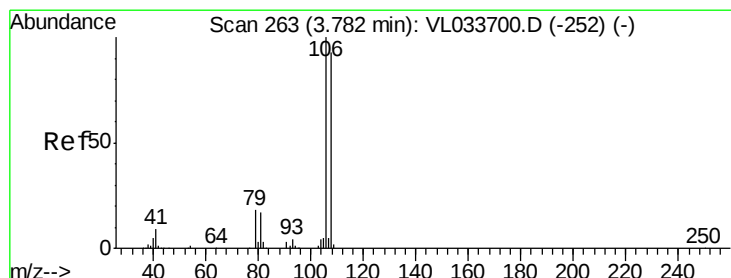
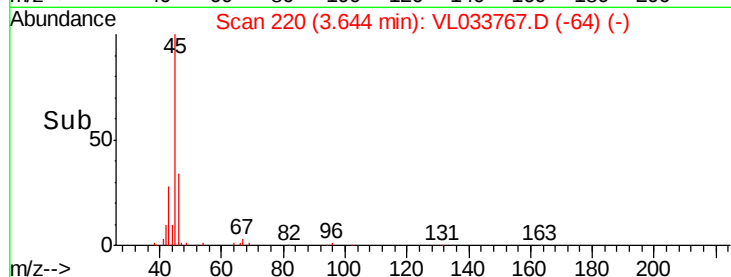
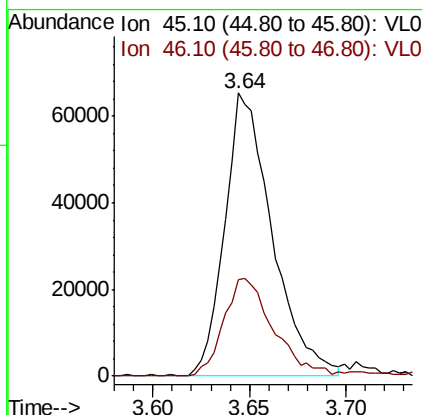
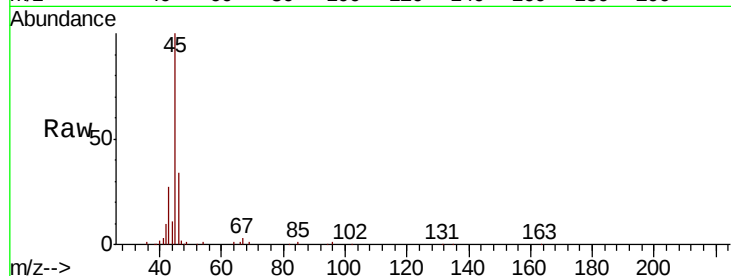
#13
Ethanol
Concen: 8.139 ppbv
RT: 3.64 min Scan# 220
Delta R.T. 0.00 min
Lab File: VL033767.D
Acq: 23 May 2019 5:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	45	46	Ratio	Lower	Upper
111424	100	37.7		14.8	59.0

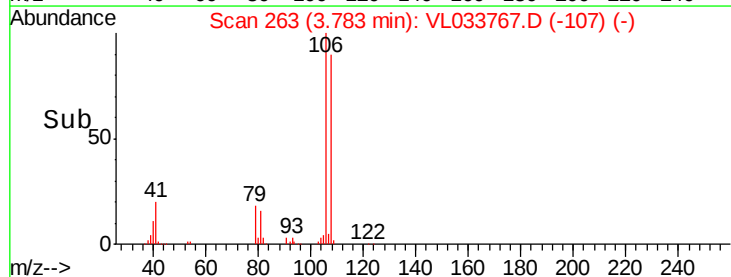
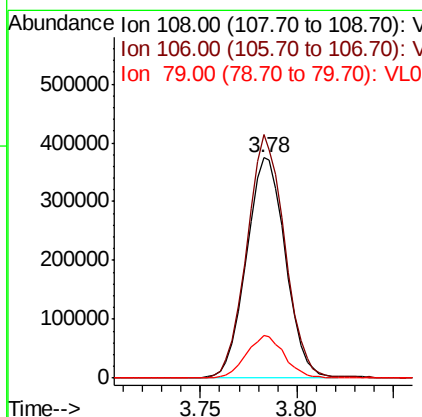
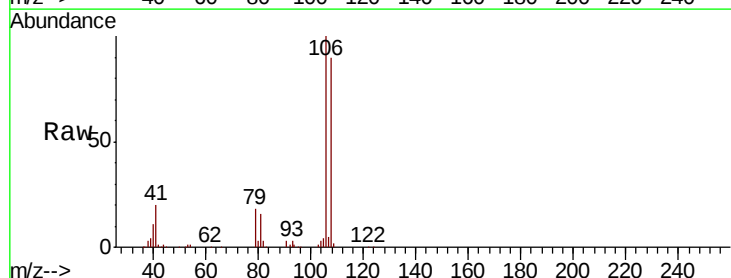
Manual Integrations
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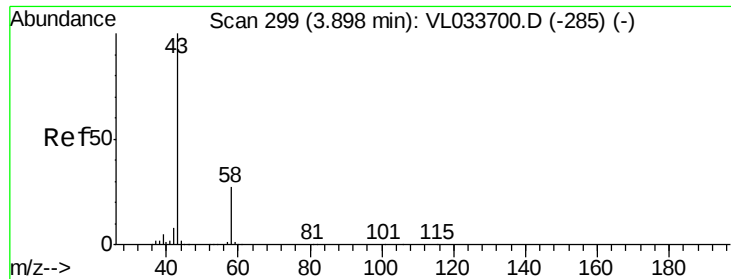
MMDadoda
5/28/2019 2:51:35 AM



#14
Bromoethene
Concen: 11.770 ppbv
RT: 3.78 min Scan# 263
Delta R.T. 0.00 min
Lab File: VL033767.D
Acq: 23 May 2019 5:45

Tgt Ion	108	106	79	Ratio	Lower	Upper
528386	100	107.4	19.1		86.5	129.7





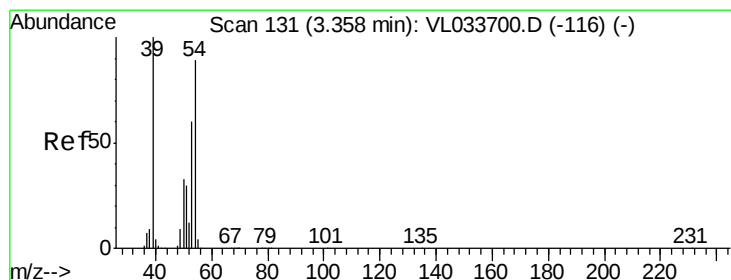
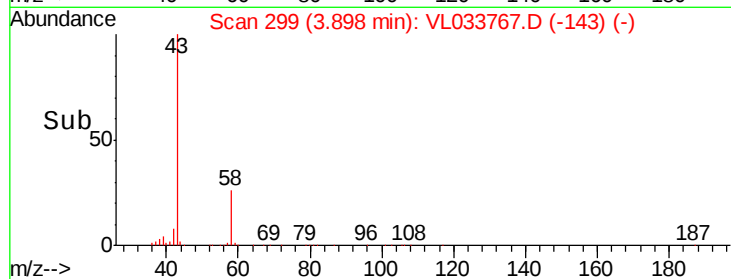
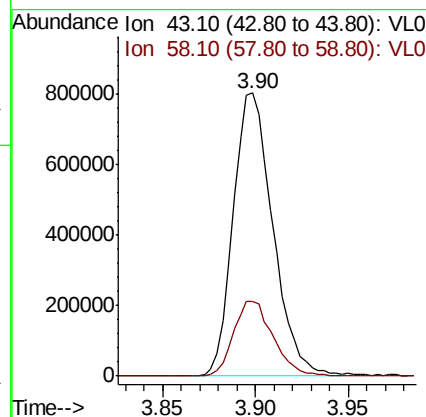
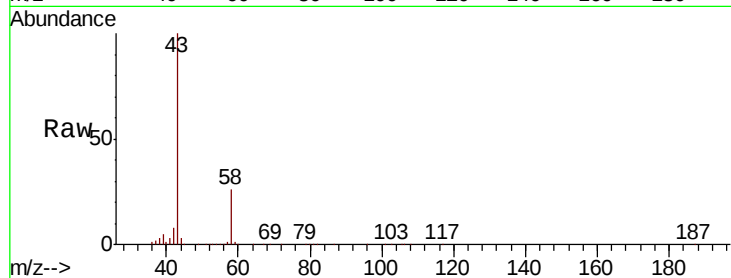
#15
Acetone
Concen: 9.841 ppbv
RT: 3.90 min Scan# 299
Delta R.T. 0.00 min
Lab File: VL033767.D
Acq: 23 May 2019 5:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 43 Resp: 1187113
Ion Ratio Lower Upper
43 100
58 26.7 21.3 31.9

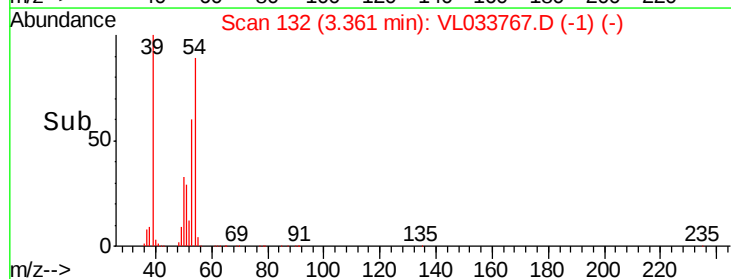
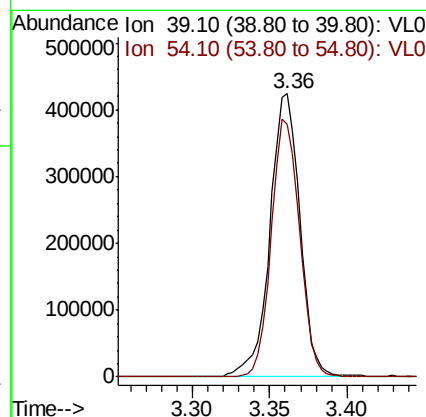
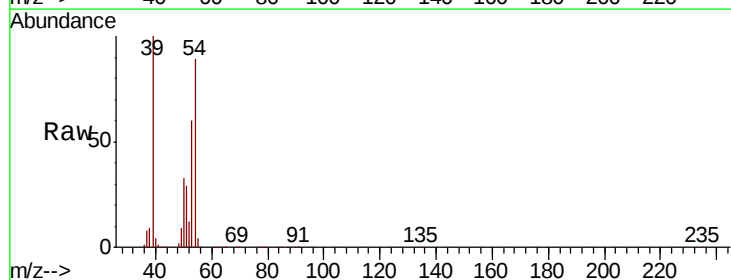
Manual Integrations
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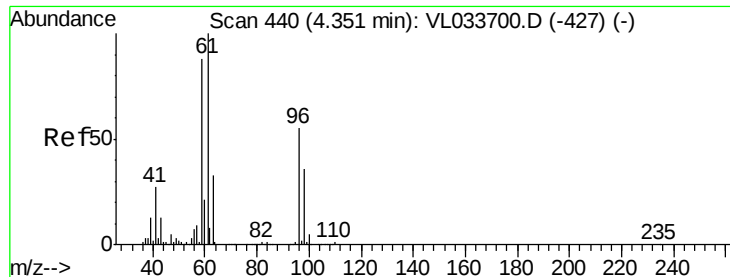
MMDadoda
5/28/2019 2:51:35 AM



#16
1,3-Butadiene
Concen: 11.857 ppbv
RT: 3.36 min Scan# 132
Delta R.T. 0.00 min
Lab File: VL033767.D
Acq: 23 May 2019 5:45

Tgt Ion: 39 Resp: 569567
Ion Ratio Lower Upper
39 100
54 86.3 69.0 103.6





#17

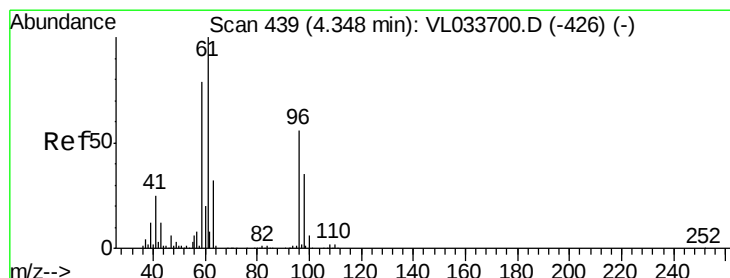
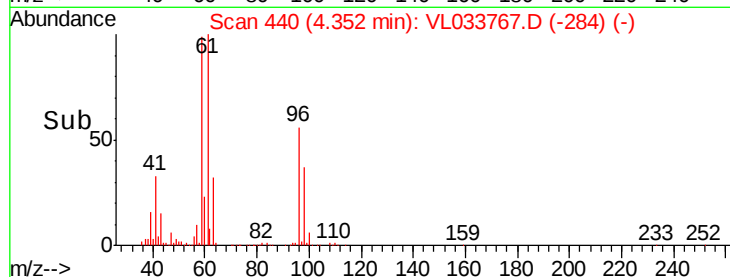
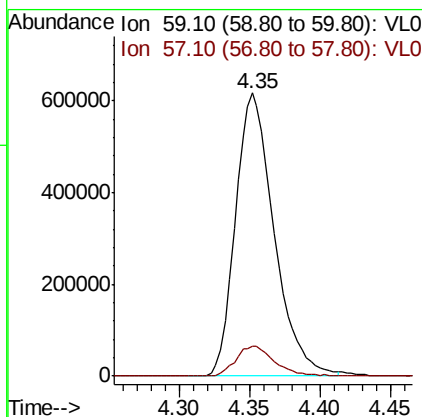
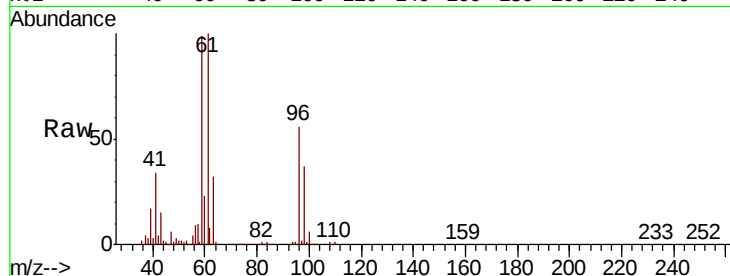
tert-Butyl alcohol
Concen: 12.104 ppbv
RT: 4.35 min Scan# 440
Delta R.T. 0.00 min
Lab File: VL033767.D
Acq: 23 May 2019 5:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	59	Resp	1180590
Ion	Ratio	Lower	Upper
59	100		
57	10.7	8.4	12.6

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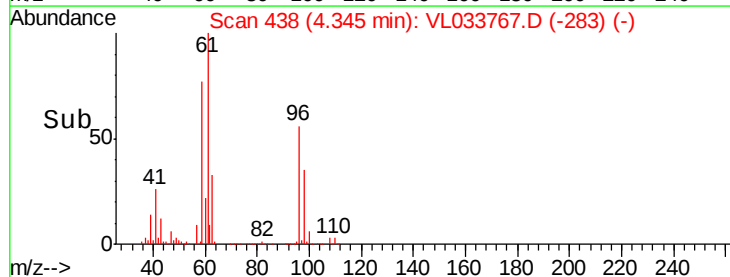
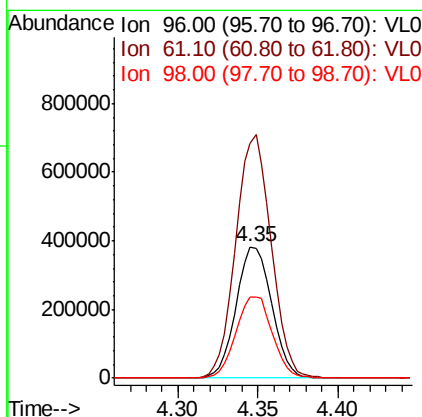
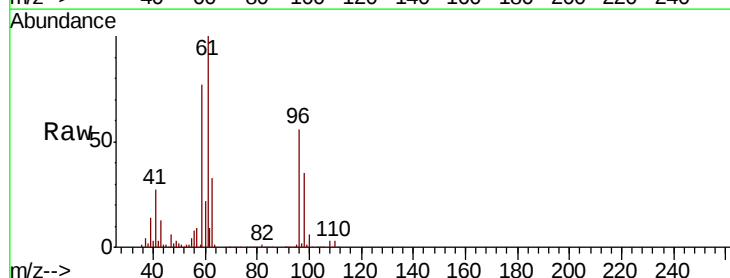
MMDadoda
5/28/2019 2:51:35 AM

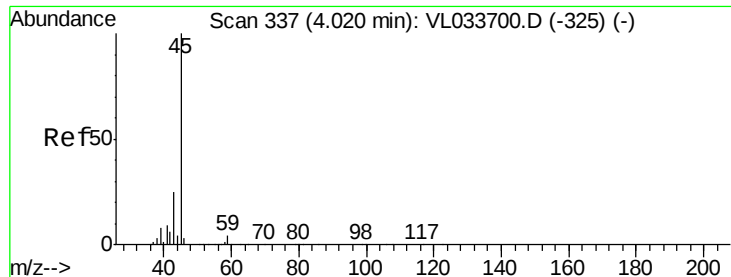


#18

1,1-Dichloroethene
Concen: 11.245 ppbv
RT: 4.35 min Scan# 438
Delta R.T. -0.00 min
Lab File: VL033767.D
Acq: 23 May 2019 5:45

Tgt Ion	96	Resp	579593
Ion	Ratio	Lower	Upper
96	100		
61	178.8	143.1	214.7
98	61.7	49.5	74.3





#19

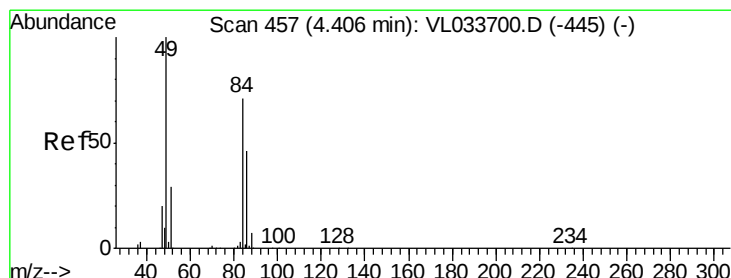
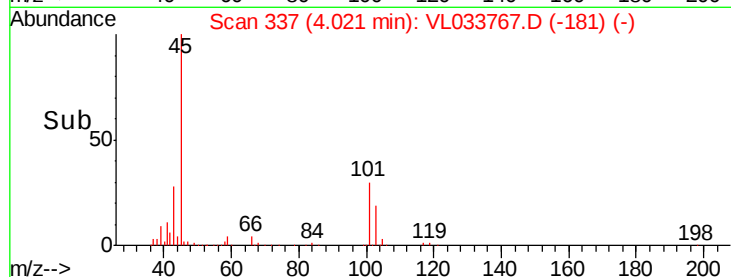
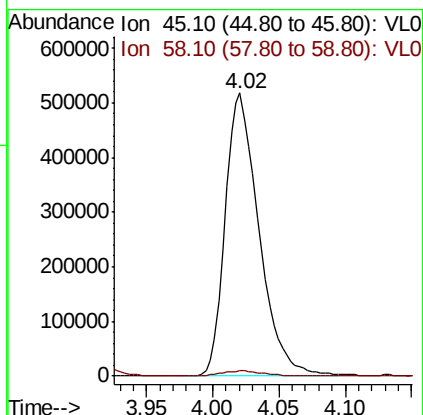
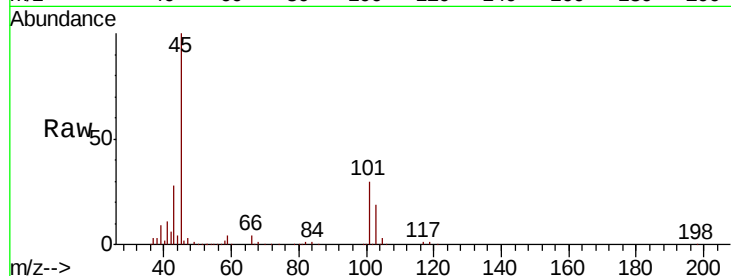
Isopropyl Alcohol
 Concen: 11.794 ppbv
 RT: 4.02 min Scan# 337
 Delta R.T. 0.00 min
 Lab File: VL033767.D
 Acq: 23 May 2019 5:45

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
45	100		
58	2.6	1.6	2.4#

Manual Integrations
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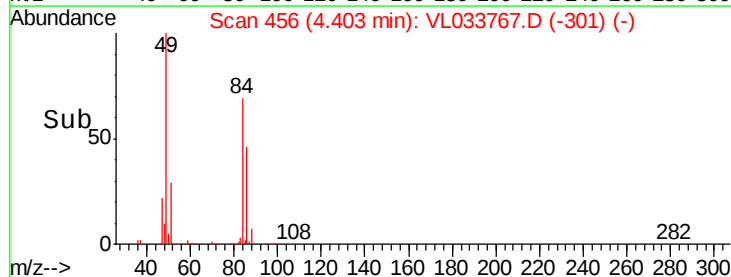
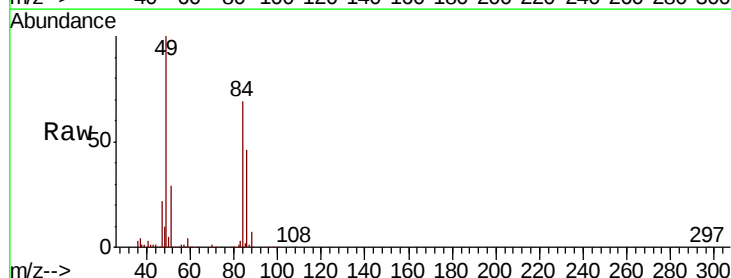
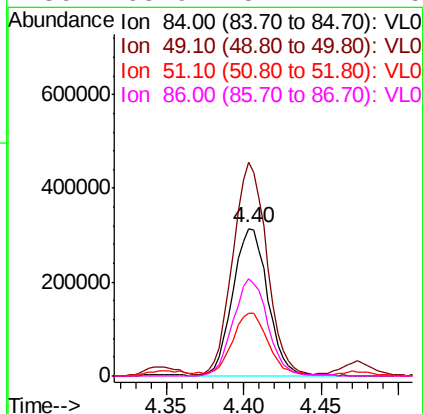
MMDadoda
 5/28/2019 2:51:35 AM

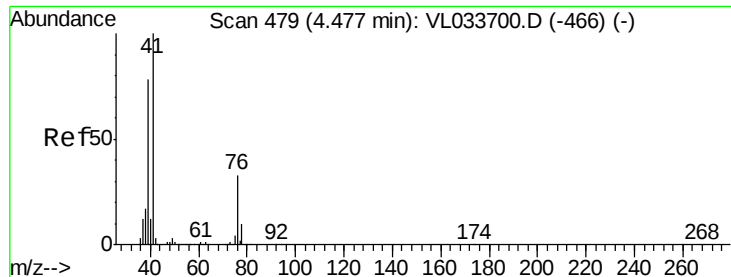


#20

Methylene Chloride
 Concen: 10.583 ppbv
 RT: 4.40 min Scan# 456
 Delta R.T. -0.00 min
 Lab File: VL033767.D
 Acq: 23 May 2019 5:45

Tgt Ion	Ratio	Lower	Upper
84	100		
49	142.8	112.8	169.2
51	40.8	33.4	50.0
86	65.9	51.7	77.5





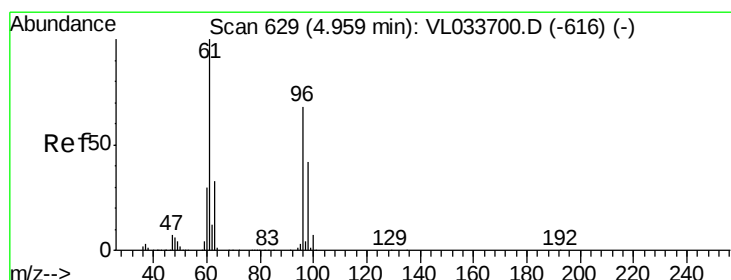
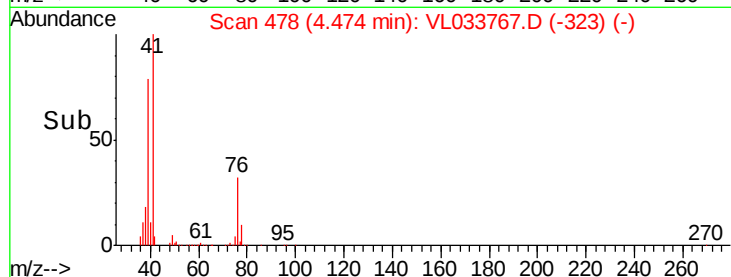
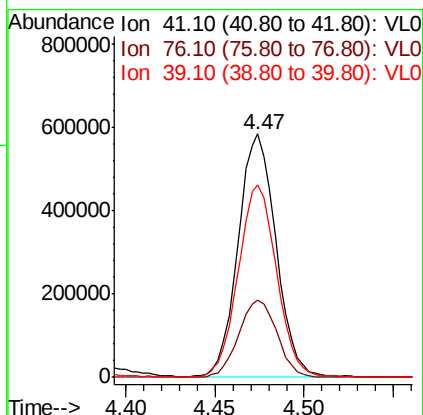
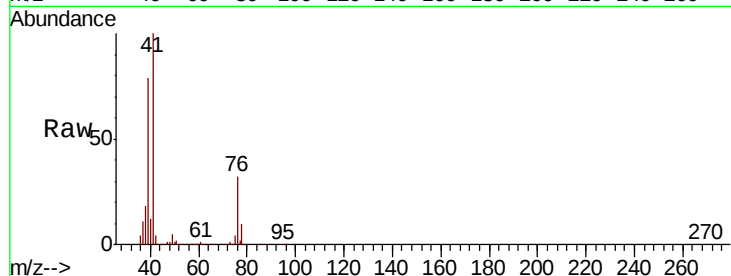
#21
Allvl Chloride
Concen: 11.384 ppbv
RT: 4.47 min Scan# 478
Delta R.T. -0.00 min
Lab File: VL033767.D
Acq: 23 May 2019 5:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion:	41	Resp:	856511
Ion Ratio	Lower	Upper	
41	100		
76	32.5	25.9	38.9
39	81.1	64.6	97.0

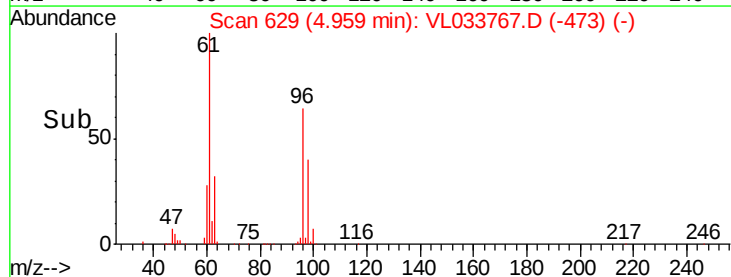
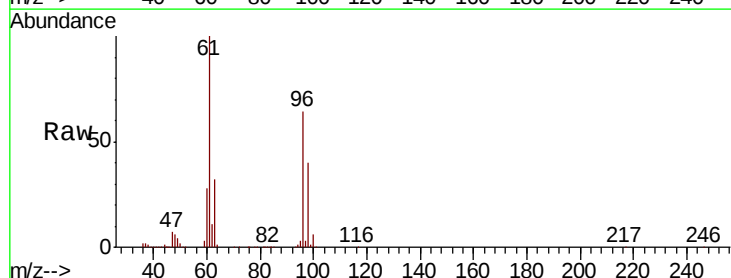
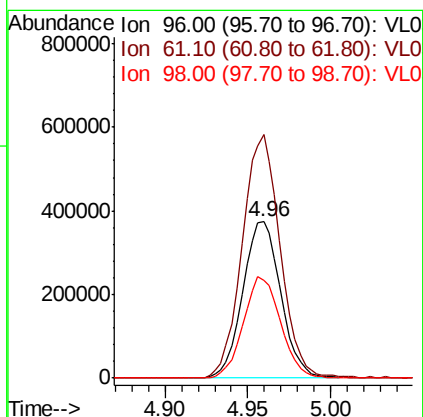
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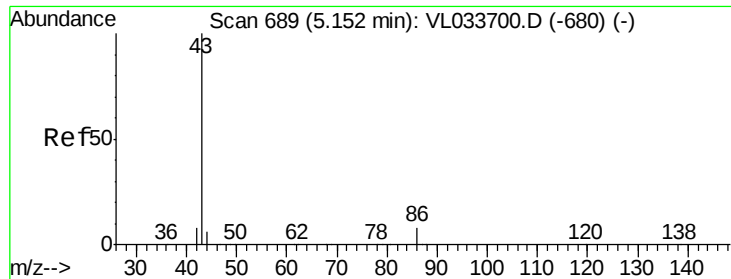
MMDadoda
5/28/2019 2:51:35 AM



#22
trans-1,2-Dichloroethene
Concen: 11.286 ppbv
RT: 4.96 min Scan# 629
Delta R.T. 0.00 min
Lab File: VL033767.D
Acq: 23 May 2019 5:45

Tgt Ion:	96	Resp:	596269
Ion Ratio	Lower	Upper	
96	100		
61	156.1	116.8	175.2
98	62.4	49.4	74.0





#23

Vinyl Acetate

Concen: 10.887 ppbv

RT: 5.15 min Scan# 688

Delta R.T. -0.00 min

Lab File: VL033767.D

Acq: 23 May 2019 5:45

Tot Ion: 43 Resp: 1731493

Ion Ratio Lower Upper

43 100

86 6.9 6.0 9.0

42 10.3 7.5 11.3

44 5.4 4.4 6.6

Instrument :

MSVOA_L

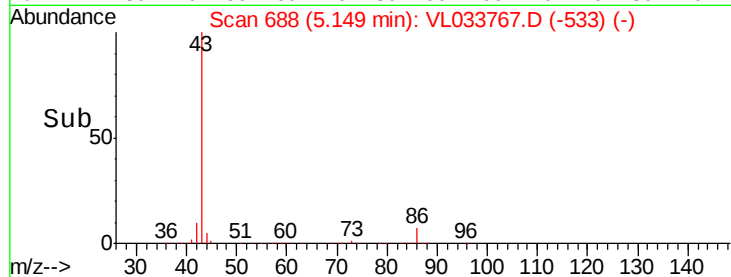
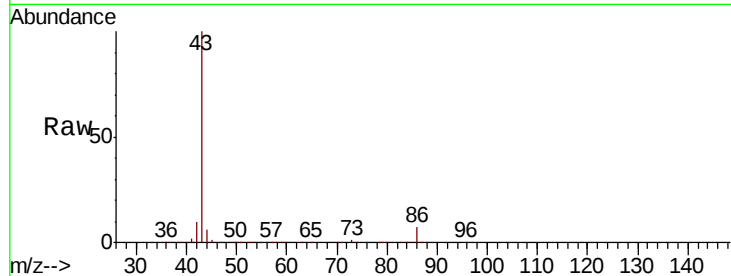
ClientSampleId :

VSTDCCC010

Manual Integrations
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MMDadoda

5/28/2019 2:51:35 AM

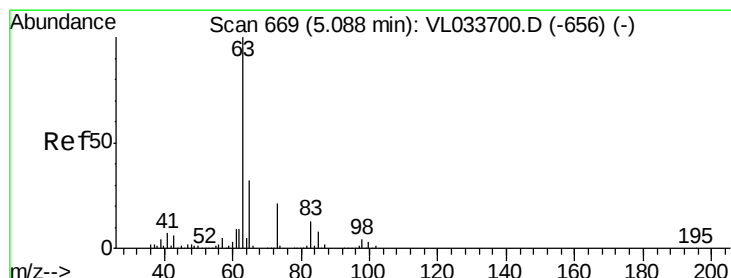
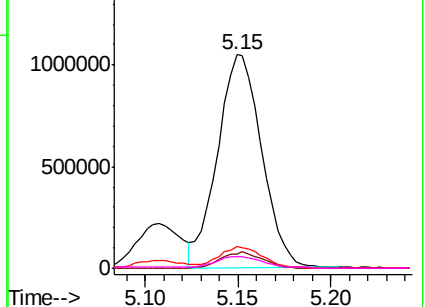


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 10.003 ppbv

RT: 5.09 min Scan# 669

Delta R.T. 0.00 min

Lab File: VL033767.D

Acq: 23 May 2019 5:45

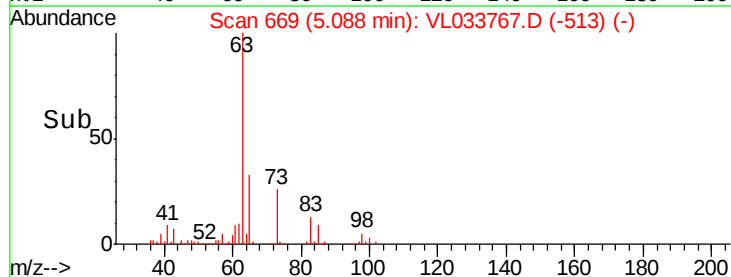
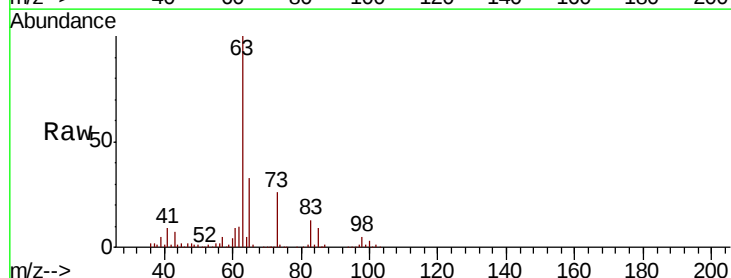
Tgt Ion: 63 Resp: 1209372

Ion Ratio Lower Upper

63 100

98 4.5 1.8 5.5

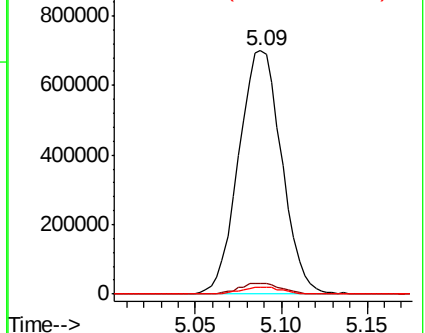
100 2.8 1.4 4.2

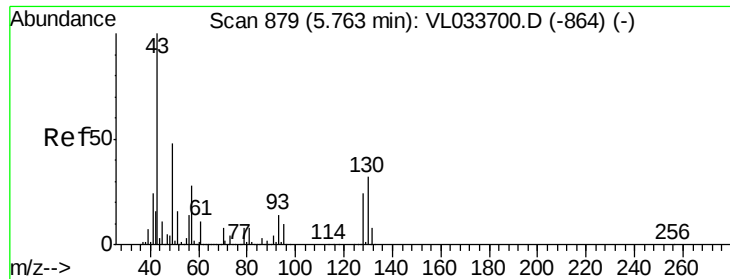


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





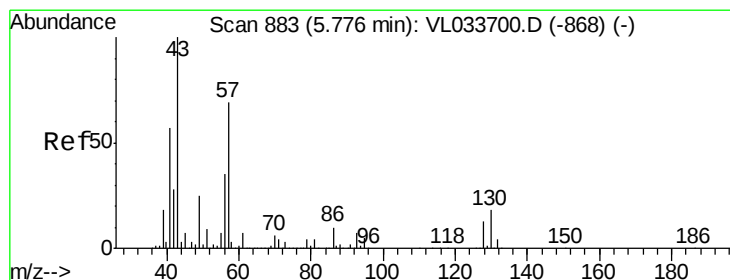
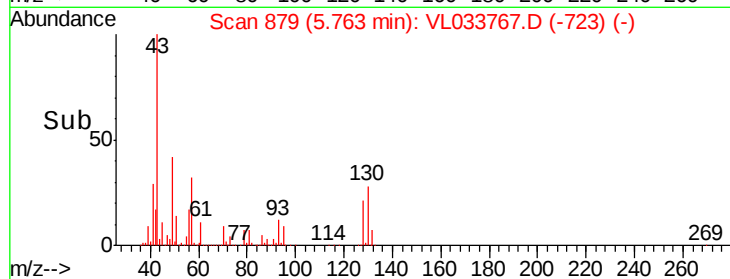
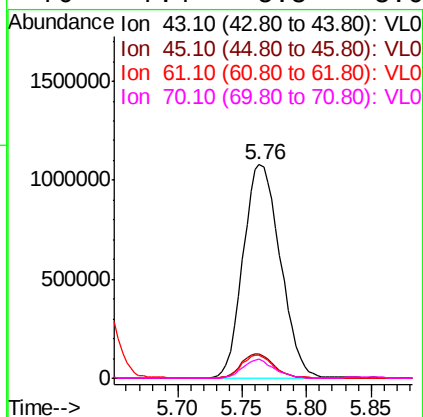
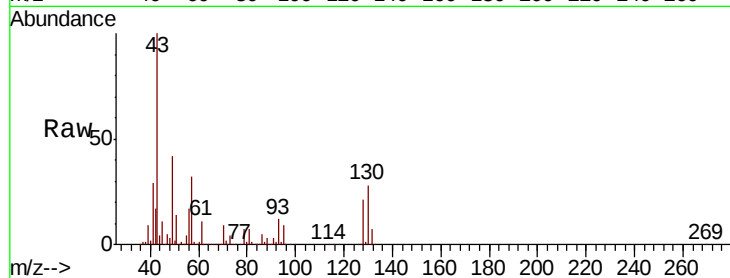
#25
Ethyl Acetate
Concen: 10.229 ppbv
RT: 5.76 min Scan# 879
Delta R.T. 0.00 min
Lab File: VL033767.D
Acq: 23 May 2019 5:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	10.1	7.9	11.9	
61	9.5	7.7	11.5	
70	7.4	5.8	8.6	

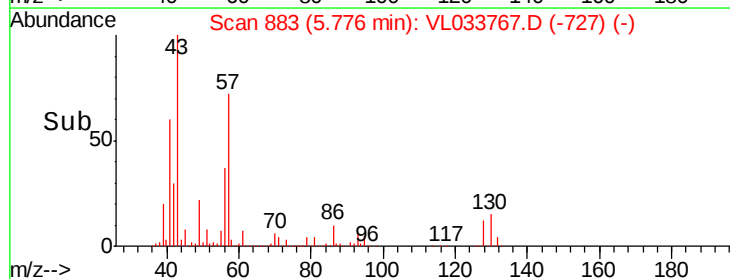
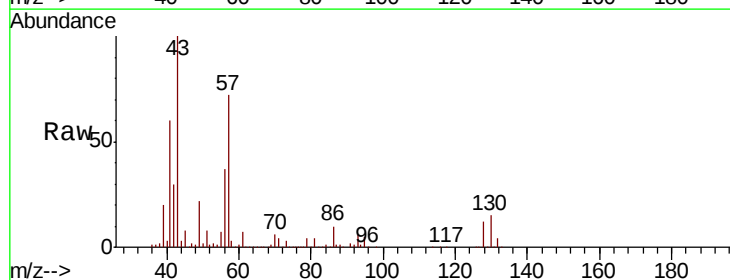
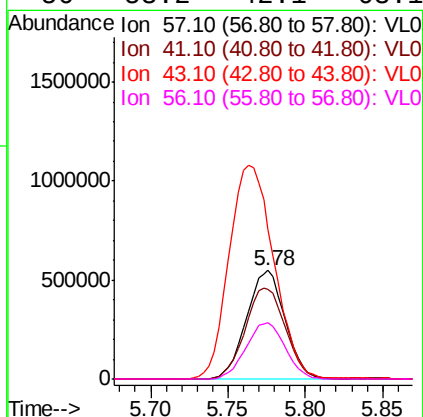
Manual Integrations
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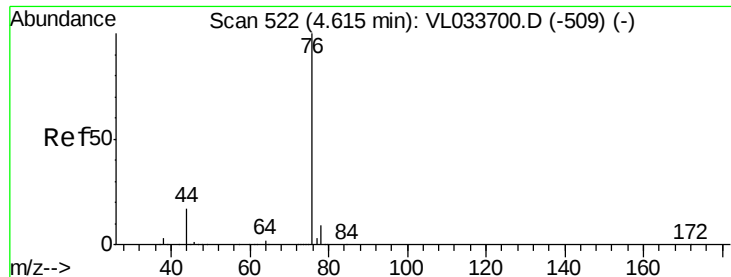
MMDadoda
5/28/2019 2:51:35 AM



#26
Hexane
Concen: 10.387 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.00 min
Lab File: VL033767.D
Acq: 23 May 2019 5:45

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	88.4	69.8	104.6	
43	230.2	181.8	272.6	
56	53.2	42.1	63.1	





#27

Carbon Disulfide

Concen: 11.475 ppbv

RT: 4.62 min Scan# 522

Delta R.T. 0.00 min

Lab File: VL033767.D

Acq: 23 May 2019 5:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 76 Resp: 1434084

Ion Ratio Lower Upper

76 100

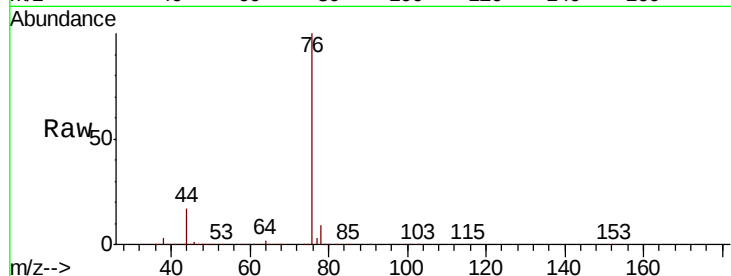
44 17.7 13.8 20.8

78 9.0 7.4 11.0

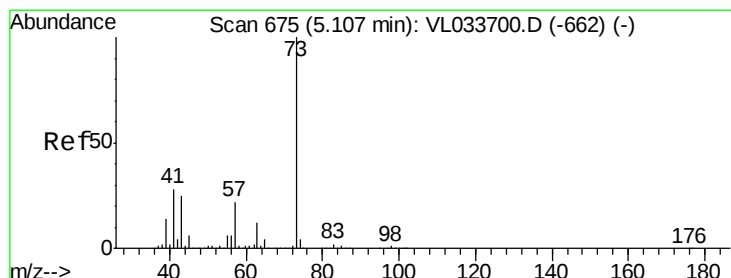
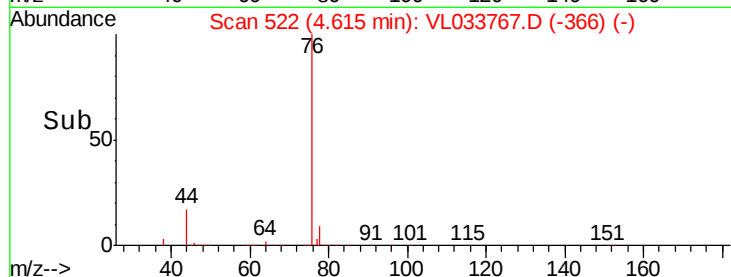
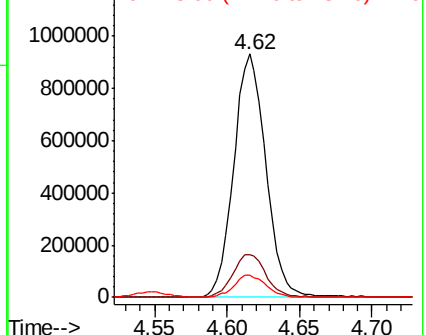
Manual Integrations
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Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 10.495 ppbv

RT: 5.11 min Scan# 675

Delta R.T. 0.00 min

Lab File: VL033767.D

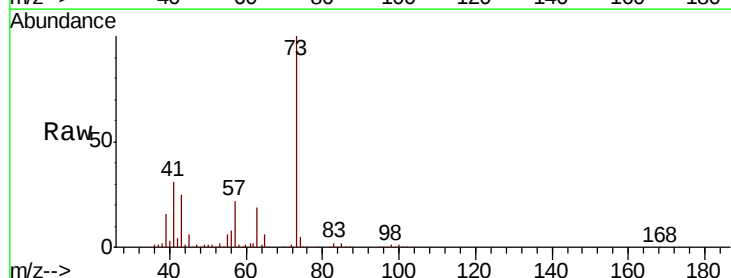
Acq: 23 May 2019 5:45

Tgt Ion: 73 Resp: 1558565

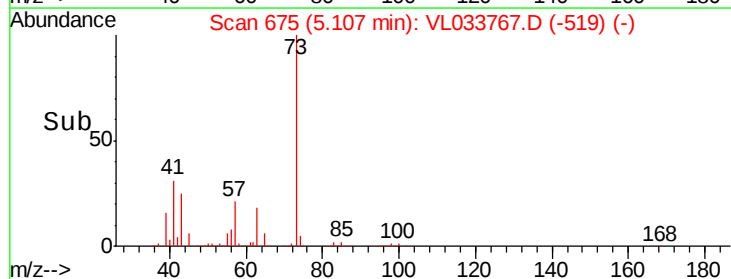
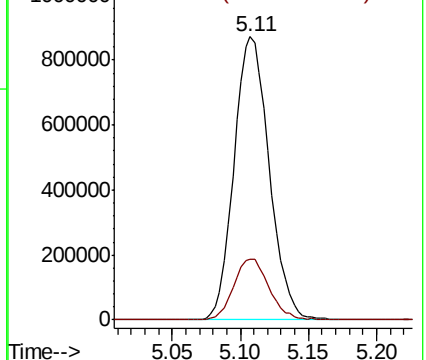
Ion Ratio Lower Upper

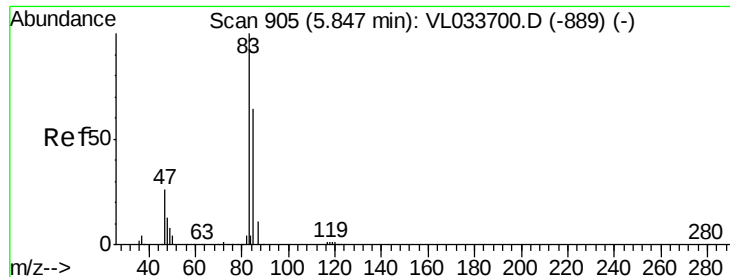
73 100

57 21.7 17.4 26.2



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





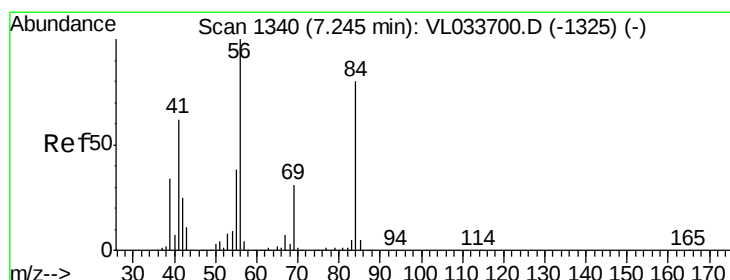
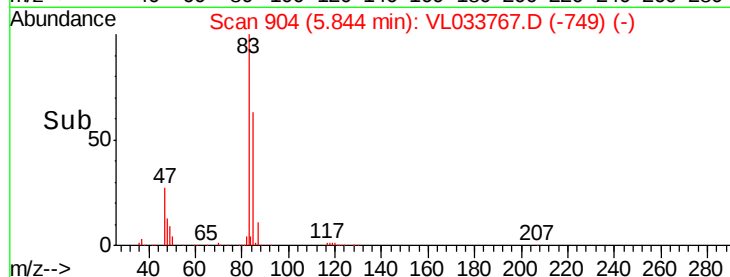
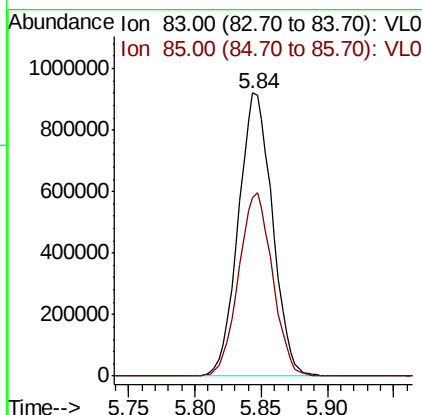
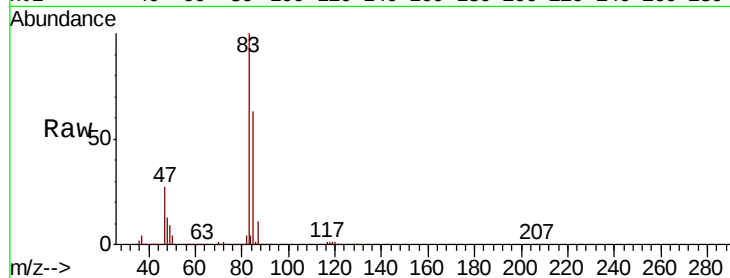
#29
Chloroform
Concen: 9.790 ppbv
RT: 5.84 min Scan# 904
Delta R.T. -0.00 min
Lab File: VL033767.D
Acq: 23 May 2019 5:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 83 Resp: 1642748
Ion Ratio Lower Upper
83 100
85 62.7 51.5 77.3

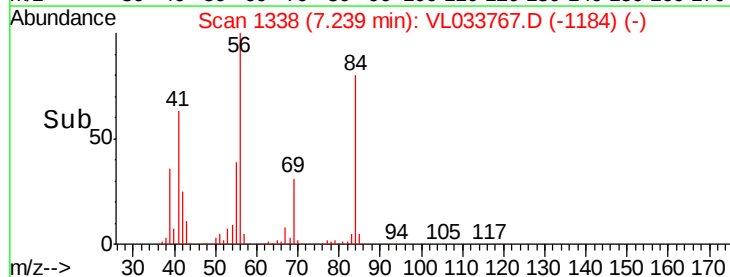
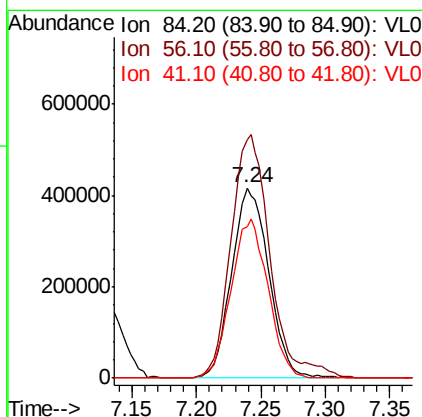
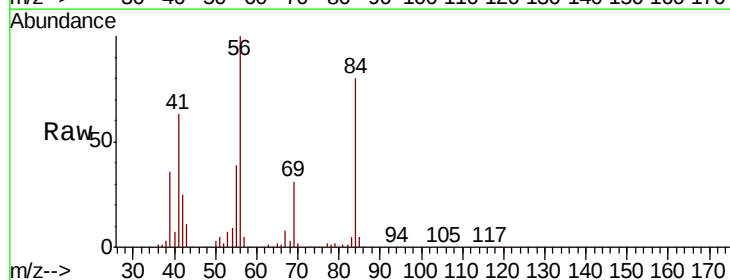
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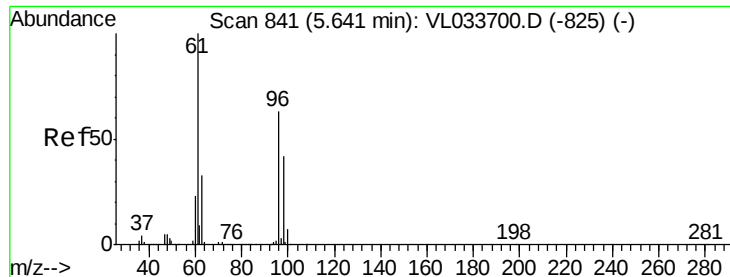
MMDadoda
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#30
Cyclohexane
Concen: 10.892 ppbv
RT: 7.24 min Scan# 1338
Delta R.T. -0.01 min
Lab File: VL033767.D
Acq: 23 May 2019 5:45

Tgt Ion: 84 Resp: 834169
Ion Ratio Lower Upper
84 100
56 135.0 107.7 161.5
41 83.5 66.0 99.0





#31

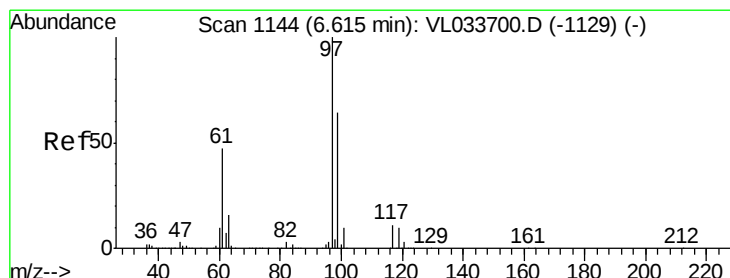
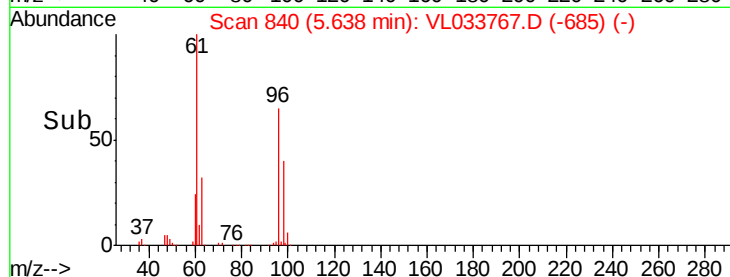
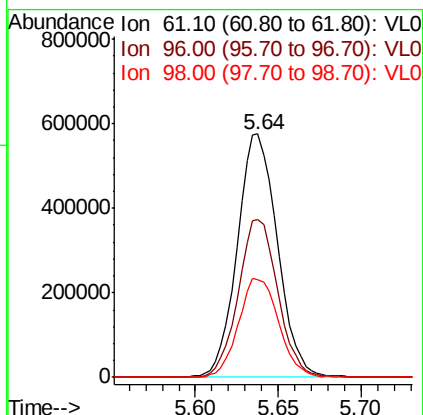
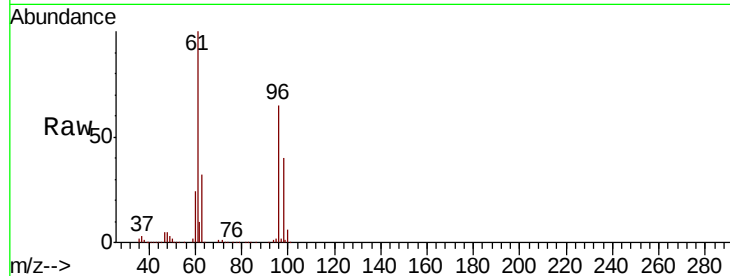
cis-1,2-Dichloroethene
 Concen: 10.766 ppbv
 RT: 5.64 min Scan# 840
 Delta R.T. -0.00 min
 Lab File: VL033767.D
 Acq: 23 May 2019 5:45

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
61	100		
96	64.5	50.8	76.2
98	40.0	33.3	49.9

Manual Integrations
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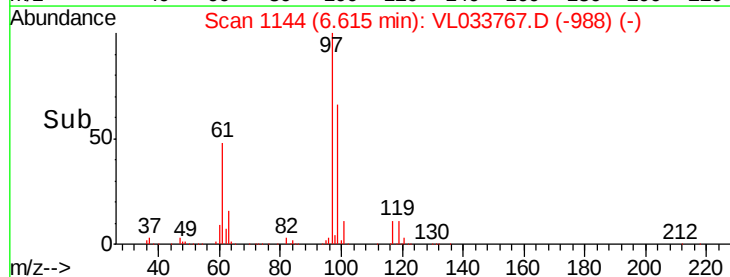
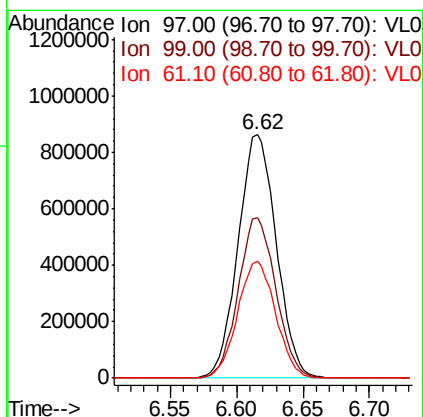
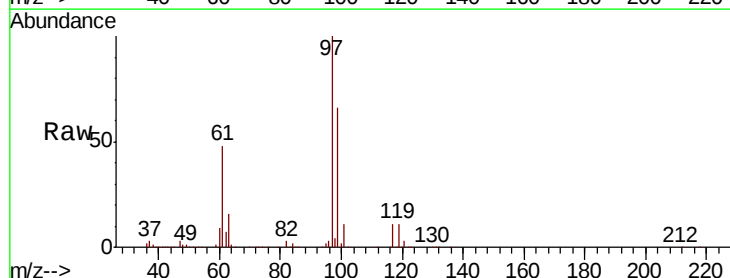
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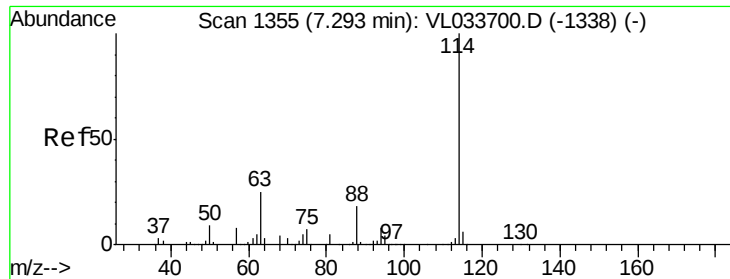


#32

1,1,1-Trichloroethane
 Concen: 10.327 ppbv
 RT: 6.62 min Scan# 1144
 Delta R.T. 0.00 min
 Lab File: VL033767.D
 Acq: 23 May 2019 5:45

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.0	51.5	77.3
61	47.9	37.8	56.8





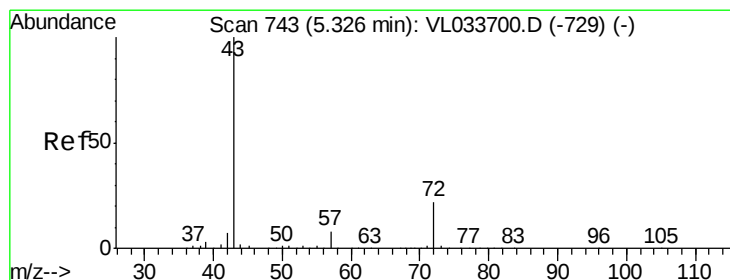
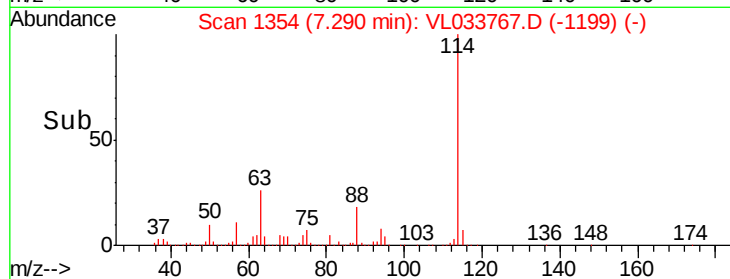
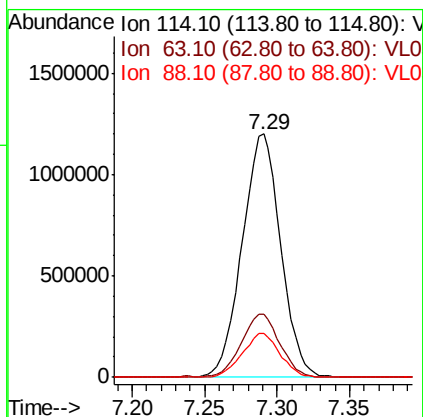
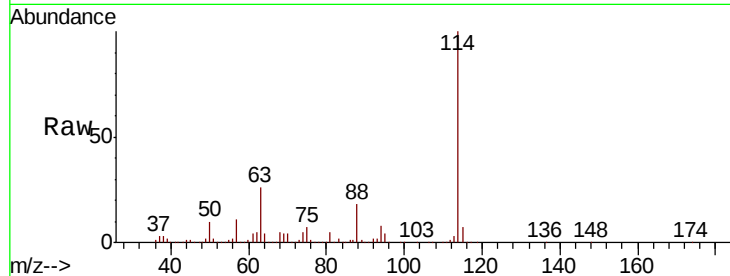
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1354
 Delta R.T. -0.00 min
 Lab File: VL033767.D
 Acq: 23 May 2019 5:45

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.6	20.9	31.3
88	17.7	14.3	21.5

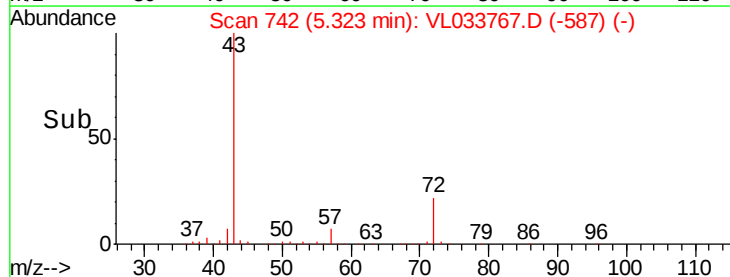
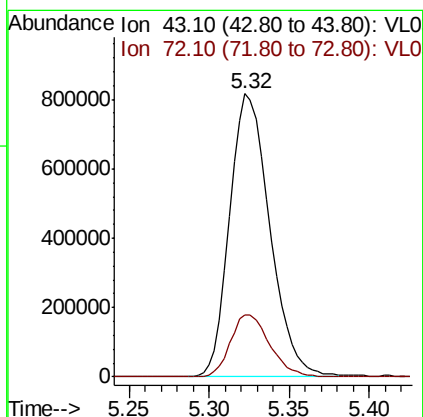
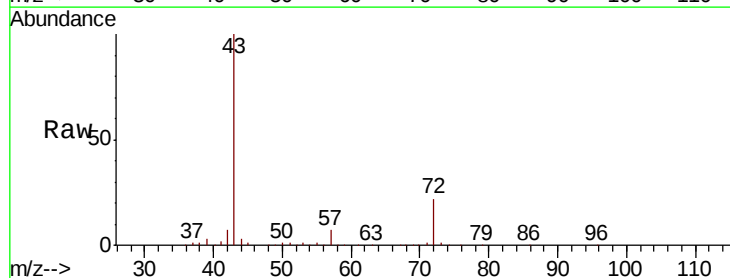
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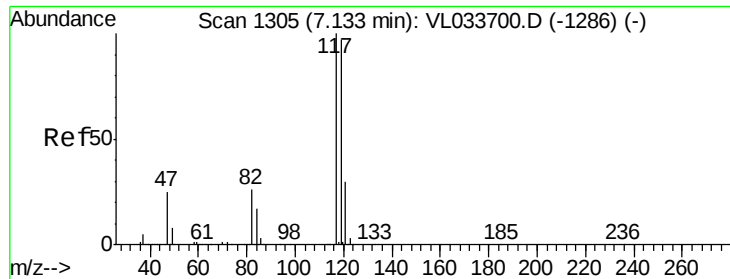
MMDadoda
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#34
 2-Butanone
 Concen: 10.106 ppbv
 RT: 5.32 min Scan# 742
 Delta R.T. -0.00 min
 Lab File: VL033767.D
 Acq: 23 May 2019 5:45

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.8	17.8	26.6





#35

Carbon Tetrachloride

Concen: 10.540 ppbv

RT: 7.13 min Scan# 1304

Delta R.T. -0.00 min

Lab File: VL033767.D

Acq: 23 May 2019 5:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:117 Resp: 1870232

Ion Ratio Lower Upper

117 100

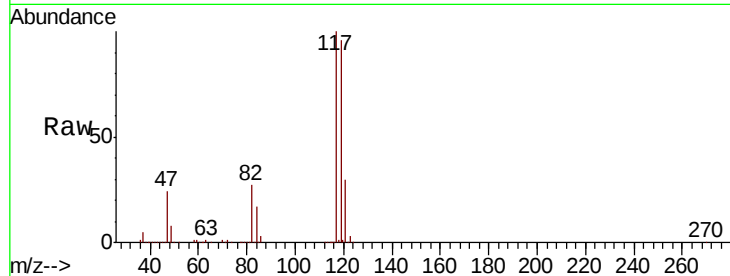
119 95.9 77.2 115.8

121 30.3 24.1 36.1

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MMDadoda

5/28/2019 2:51:35 AM

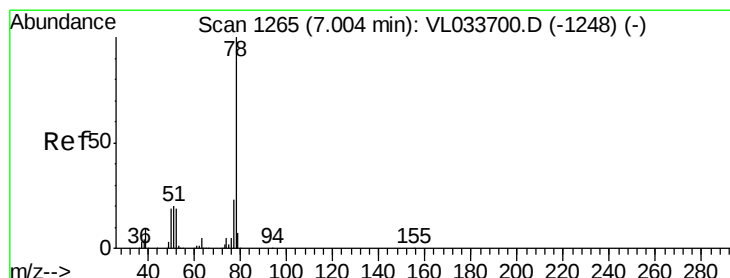
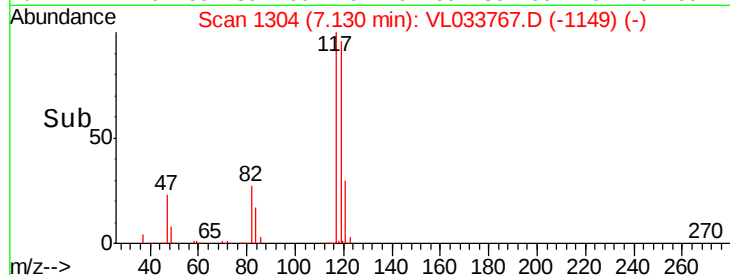
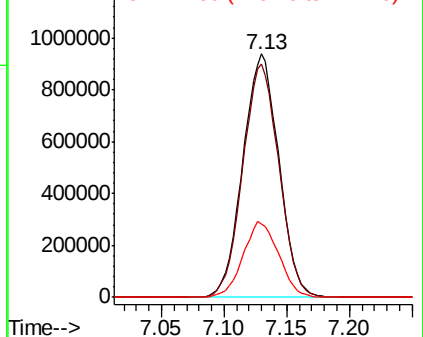


Abundance

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: 10.161 ppbv

RT: 7.00 min Scan# 1264

Delta R.T. -0.00 min

Lab File: VL033767.D

Acq: 23 May 2019 5:45

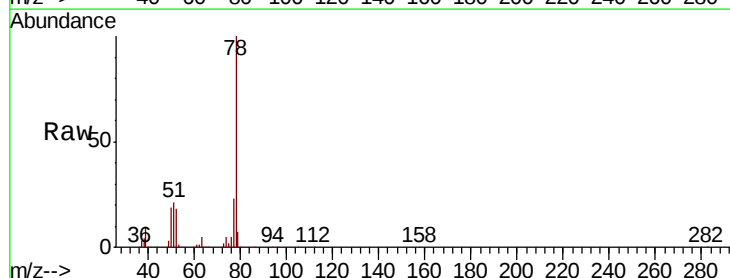
Tgt Ion: 78 Resp: 2047435

Ion Ratio Lower Upper

78 100

77 23.3 18.4 27.6

50 18.8 15.5 23.3

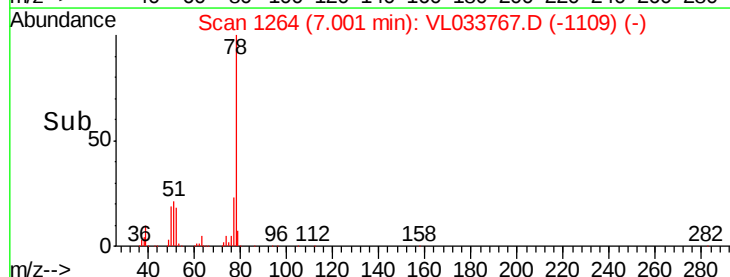
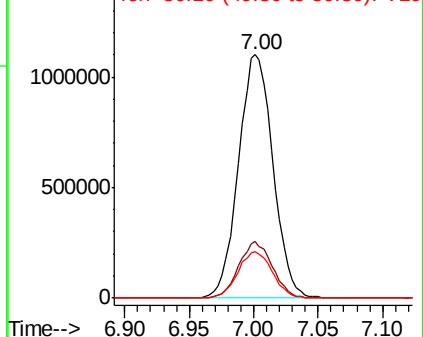


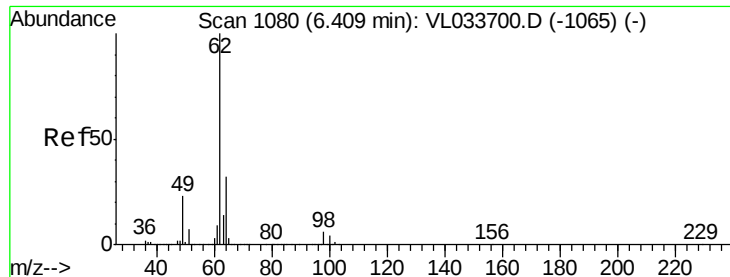
Abundance

Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





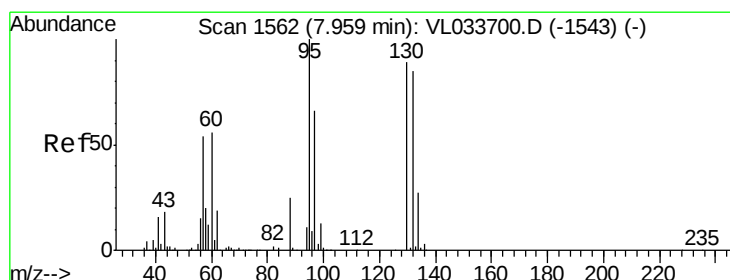
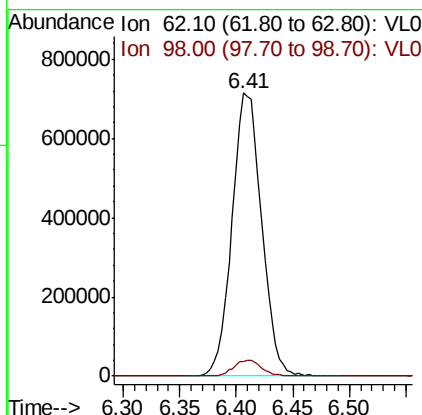
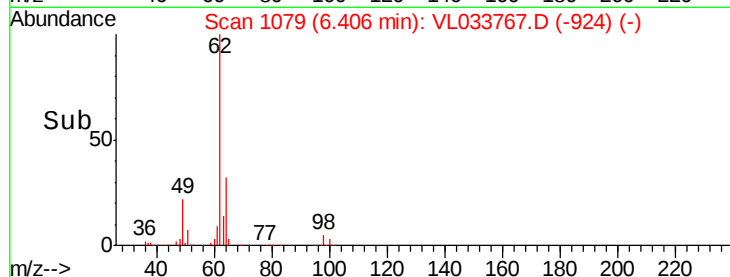
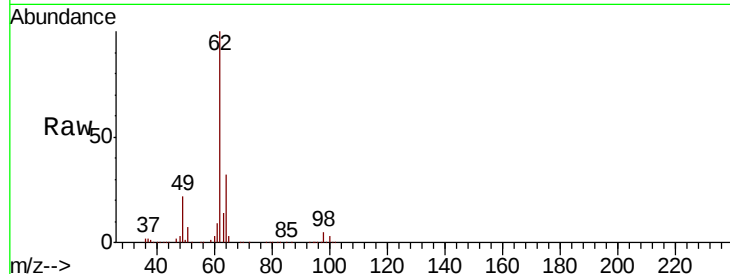
#37
1,2-Dichloroethane
Concen: 10.035 ppbv
RT: 6.41 min Scan# 1079
Delta R.T. -0.00 min
Lab File: VL033767.D
Acq: 23 May 2019 5:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 62 Resp: 1304456
Ion Ratio Lower Upper
62 100
98 5.4 4.5 6.7

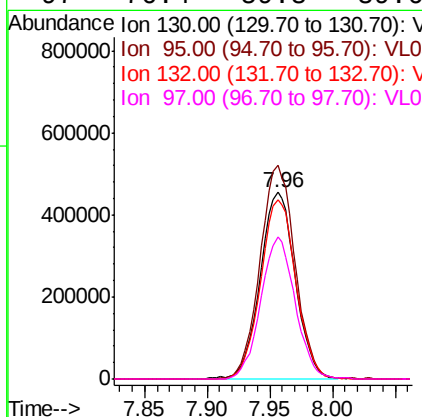
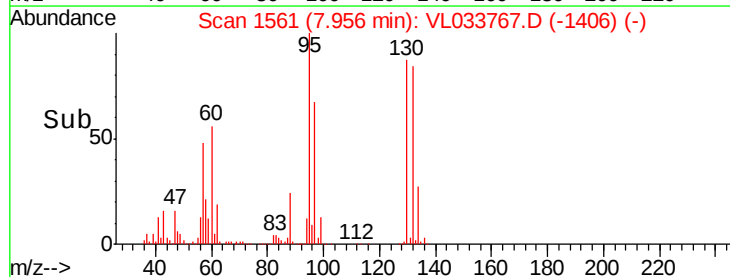
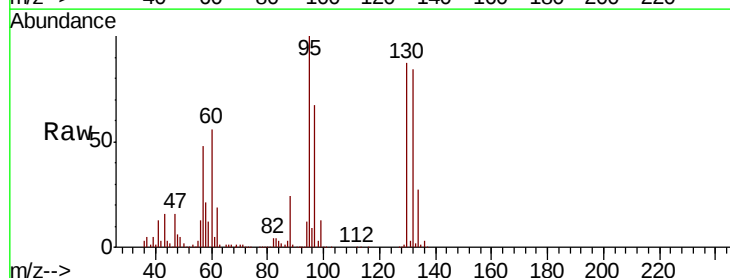
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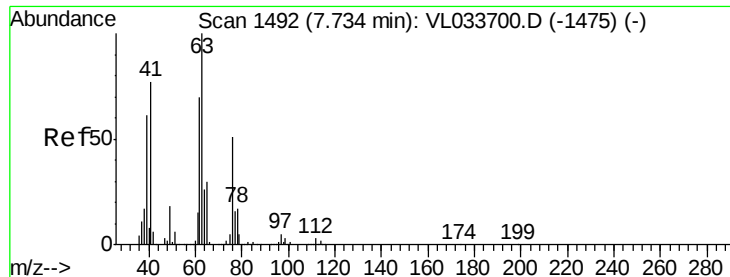
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#38
Trichloroethene
Concen: 11.878 ppbv
RT: 7.96 min Scan# 1561
Delta R.T. -0.00 min
Lab File: VL033767.D
Acq: 23 May 2019 5:45

Tgt Ion:130 Resp: 888139
Ion Ratio Lower Upper
130 100
95 114.7 90.2 135.4
132 96.1 76.4 114.6
97 76.4 59.8 89.6





#39

1,2-Dichloropropane

Concen: 10.609 ppbv

RT: 7.73 min Scan# 1491

Delta R.T. -0.00 min

Lab File: VL033767.D

Acq: 23 May 2019 5:45

Instrument :

MSVOA_L

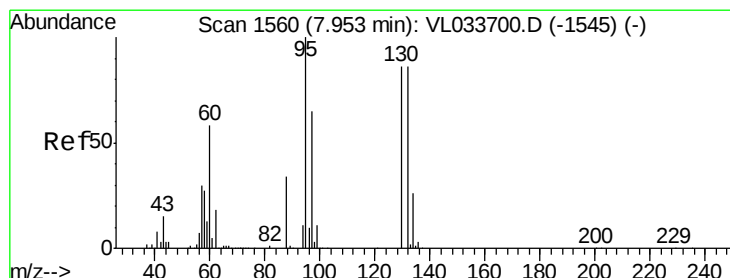
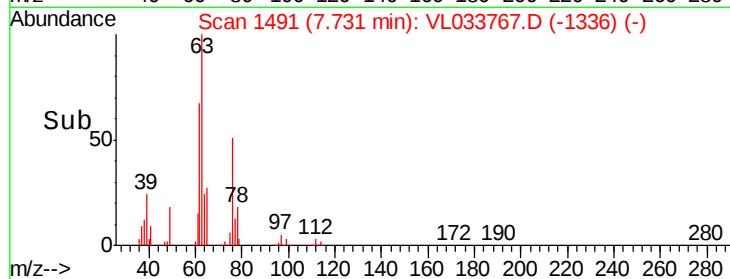
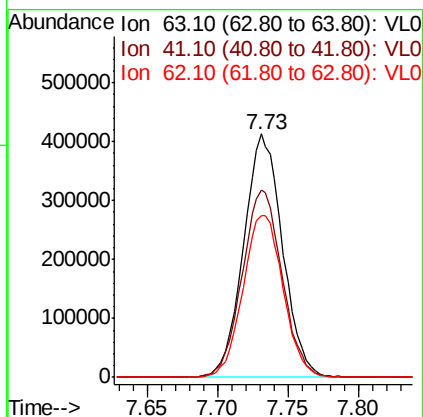
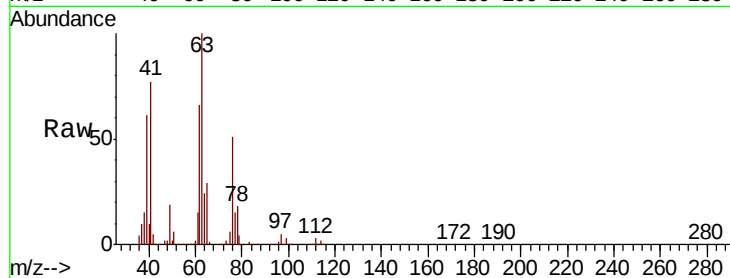
ClientSampleId :

VSTDCCC010

Tot Ion:	63	Resp:	797042
Ion Ratio	Lower	Upper	
63	100		
41	76.9	61.5	92.3
62	66.4	56.2	84.4

Manual Integrations
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#40

1,4-Dioxane

Concen: 11.176 ppbv

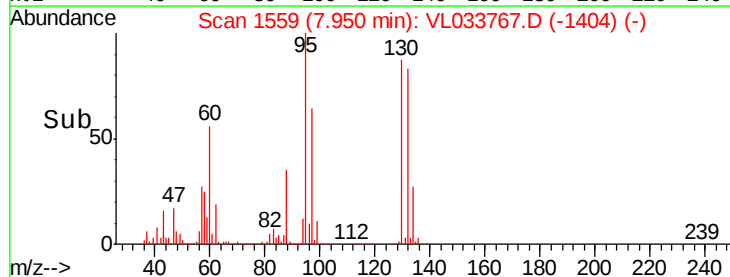
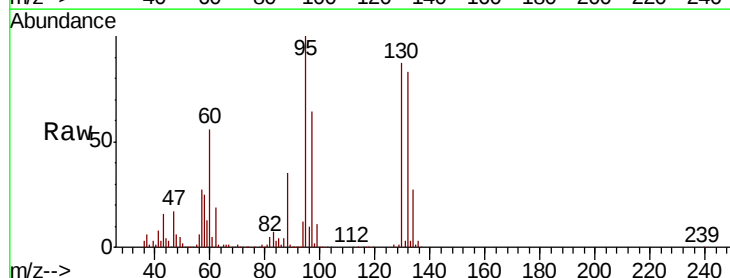
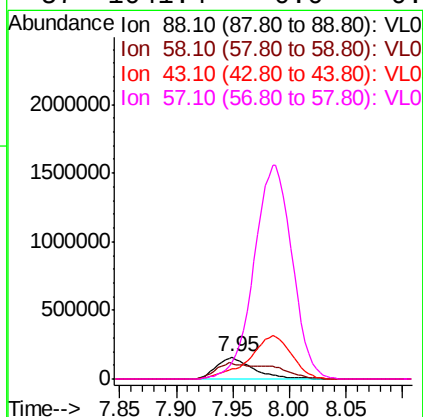
RT: 7.95 min Scan# 1559

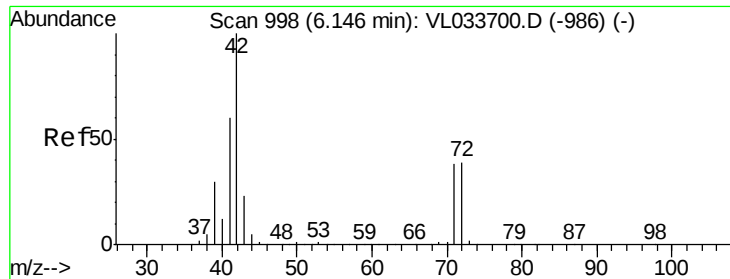
Delta R.T. -0.00 min

Lab File: VL033767.D

Acq: 23 May 2019 5:45

Tgt Ion:	88	Resp:	351236
Ion Ratio	Lower	Upper	
88	100		
58	123.1	101.8	152.6
43	234.3	0.0	0.0#
57	1041.4	0.0	0.0#





#41

Tetrahydrofuran

Concen: 9.981 ppbv

RT: 6.14 min Scan# 997

Delta R.T. -0.00 min

Lab File: VL033767.D

Acq: 23 May 2019 5:45

Instrument :

MSVOA_L

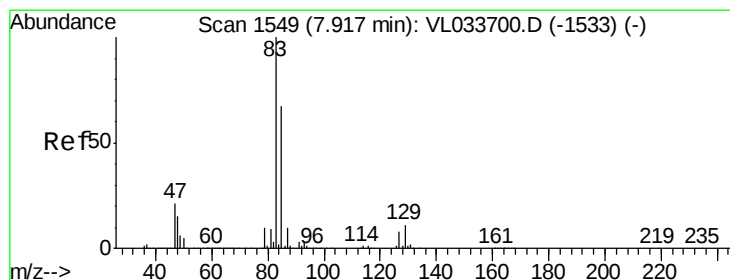
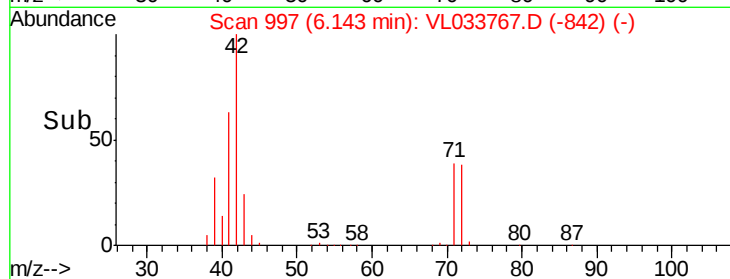
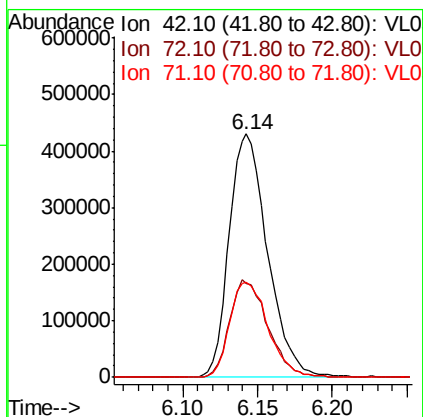
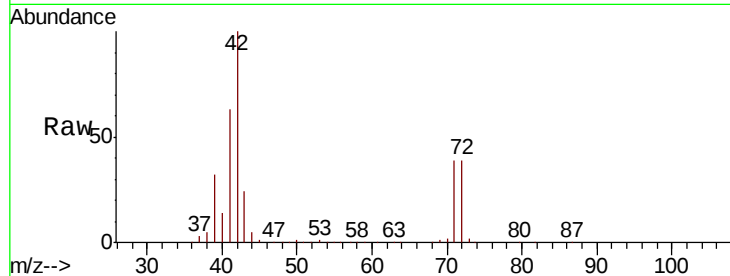
ClientSampleId :

VSTDCCC010

Tot Ion:	42	Resp:	767874
Ion	Ratio	Lower	Upper
42	100		
72	40.3	32.0	48.0
71	39.5	30.4	45.6

Manual Integrations
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#42

Bromodichloromethane

Concen: 10.802 ppbv

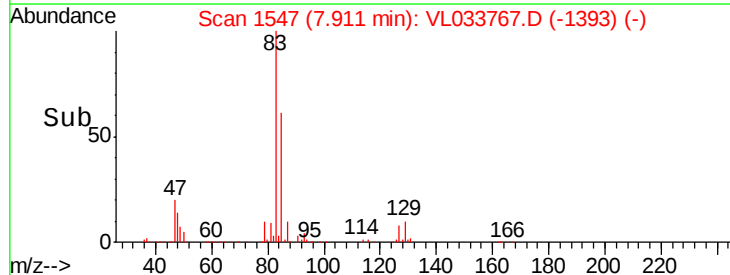
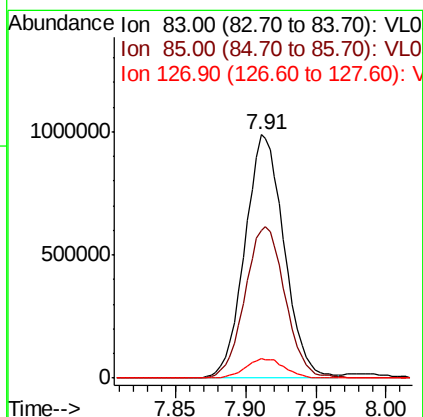
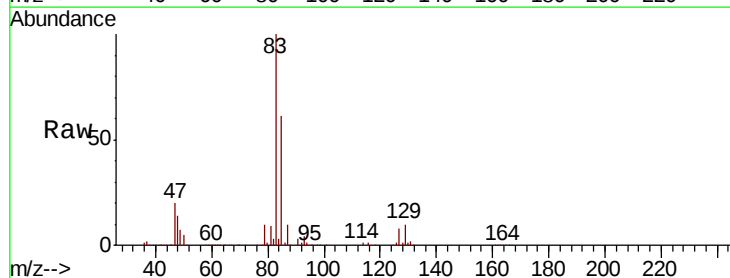
RT: 7.91 min Scan# 1547

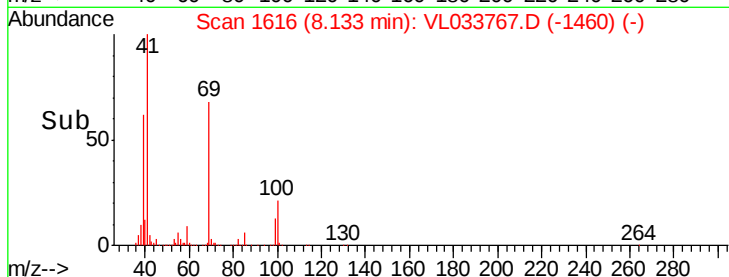
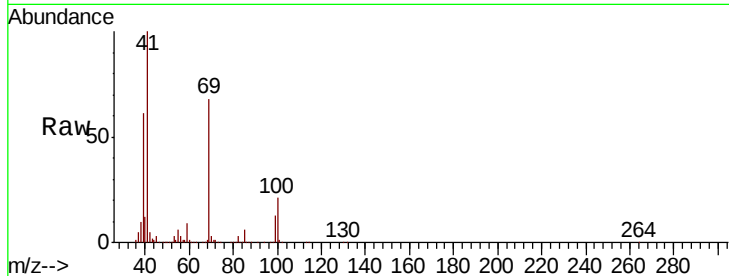
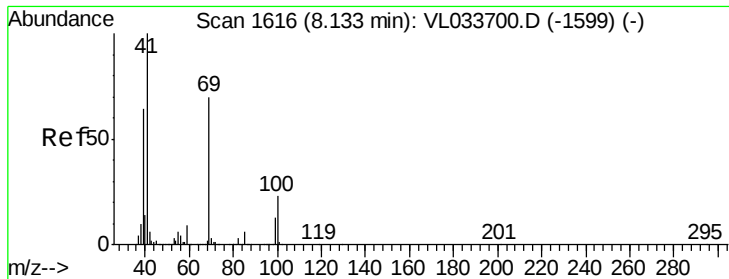
Delta R.T. -0.01 min

Lab File: VL033767.D

Acq: 23 May 2019 5:45

Tgt Ion:	83	Resp:	1922267
Ion	Ratio	Lower	Upper
83	100		
85	60.7	53.3	79.9
127	8.3	6.5	9.7





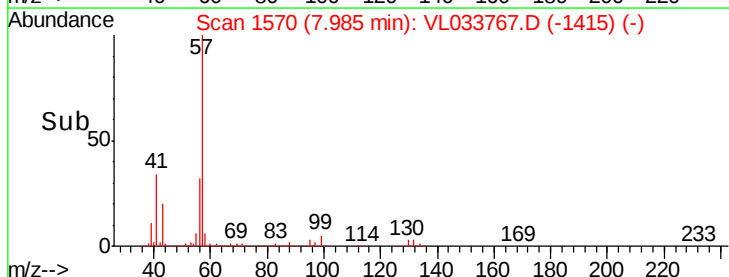
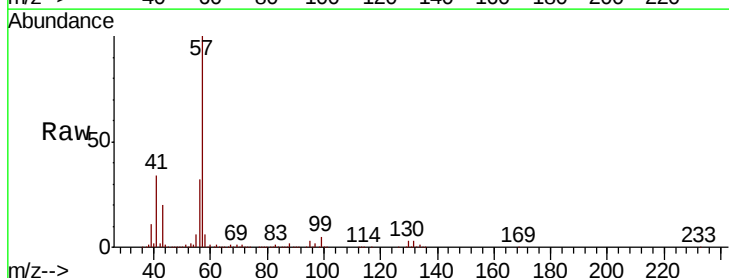
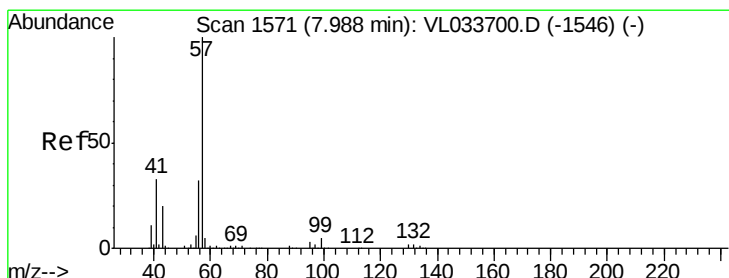
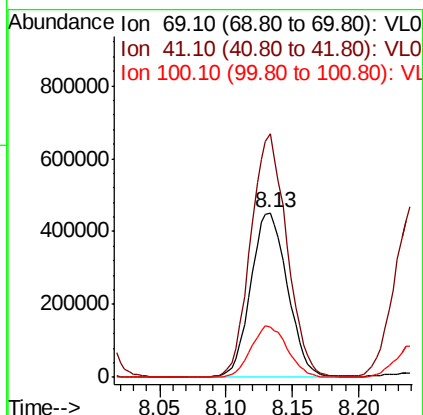
#43
Methvl Methacrylate
Concen: 11.753 ppbv
RT: 8.13 min Scan# 1616
Delta R.T. 0.00 min
Lab File: VL033767.D
Acq: 23 May 2019 5:45

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	145.0	116.3	174.5	
100	31.0	25.3	37.9	

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

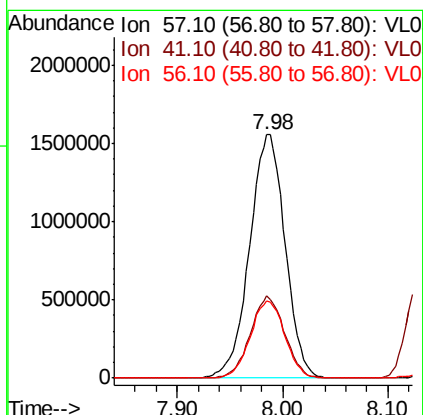
Manual Integrations
APPROVED

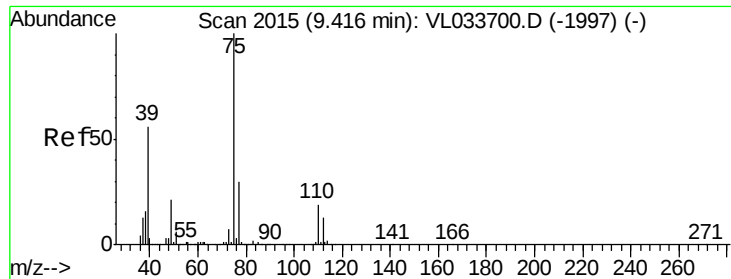
MMDadoda
5/28/2019 2:51:35 AM



#44
2,2,4-Trimethylpentane
Concen: 10.727 ppbv
RT: 7.98 min Scan# 1570
Delta R.T. -0.00 min
Lab File: VL033767.D
Acq: 23 May 2019 5:45

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	32.4	25.4	38.0	
56	30.9	24.7	37.1	





#45

t-1,3-Dichloropropene

Concen: 11.950 ppbv

RT: 9.41 min Scan# 2013

Delta R.T. -0.01 min

Lab File: VL033767.D

Acq: 23 May 2019 5:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 75 Resp: 1123425

Ion Ratio Lower Upper

75 100

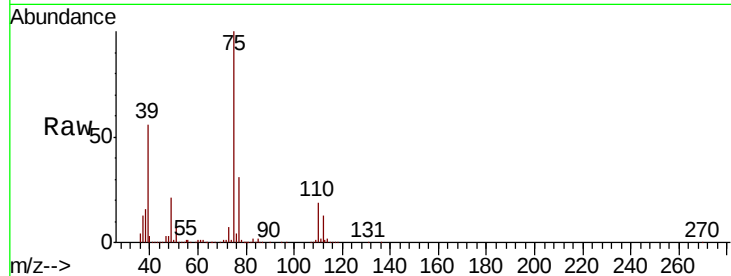
77 31.1 24.4 36.6

Manual Integrations

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MMDadoda

5/28/2019 2:51:35 AM



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

600000

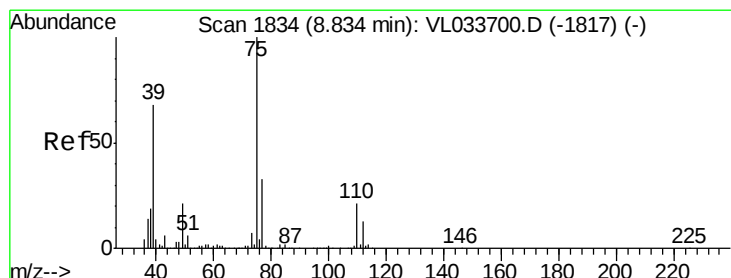
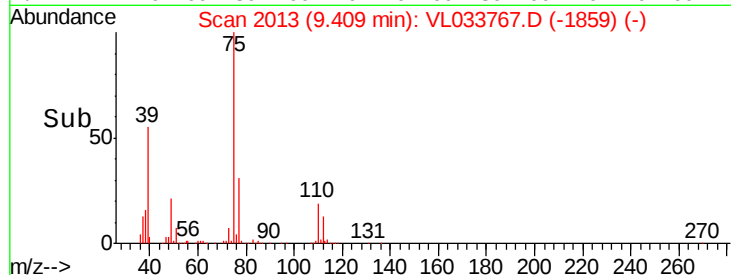
400000

200000

0

9.35 9.40 9.45 9.50

Time-->



#46

cis-1,3-Dichloropropene

Concen: 11.463 ppbv

RT: 8.83 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VL033767.D

Acq: 23 May 2019 5:45

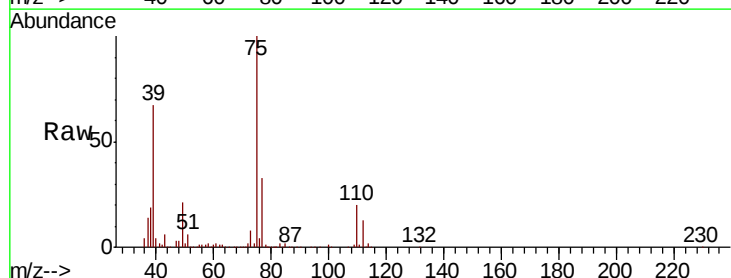
Tgt Ion: 75 Resp: 1261914

Ion Ratio Lower Upper

75 100

39 67.0 54.4 81.6

77 32.9 26.6 39.8



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

800000

600000

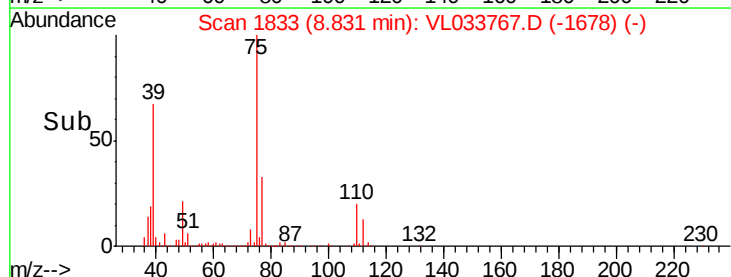
400000

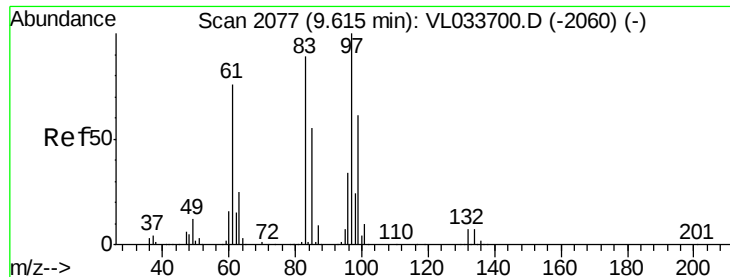
200000

0

8.75 8.80 8.85 8.90

Time-->





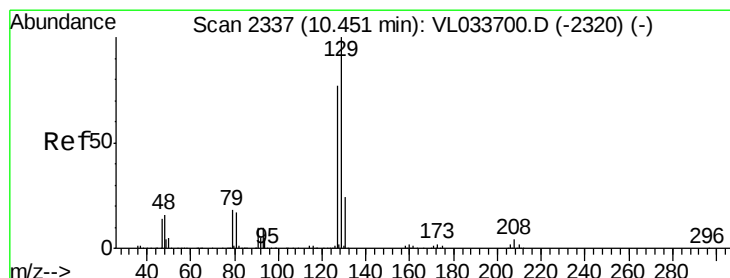
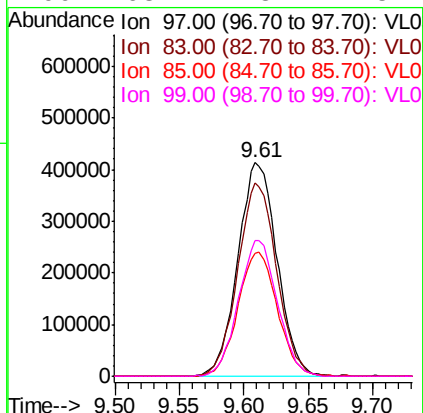
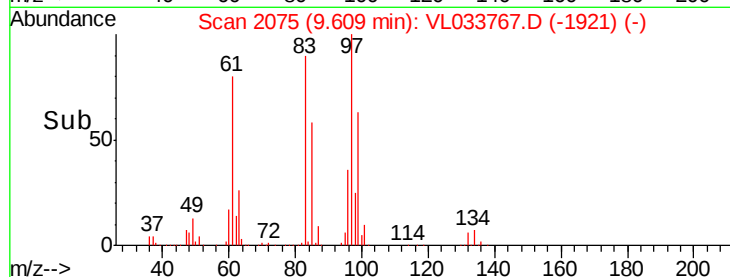
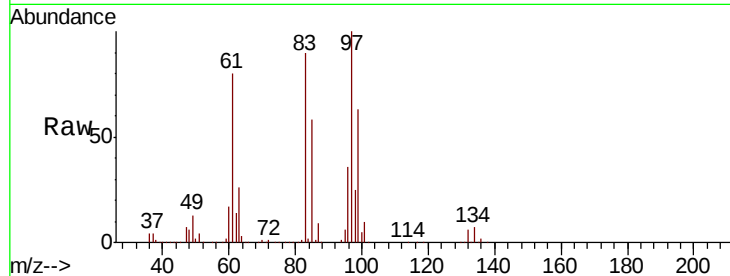
#47
 1,1,2-Trichloroethane
 Concen: 10.244 ppbv
 RT: 9.61 min Scan# 2075
 Delta R.T. -0.01 min
 Lab File: VL033767.D
 Acq: 23 May 2019 5:45

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:	97	Resp:	874330
Ion	Ratio	Lower	Upper
97	100		
83	90.3	70.8	106.2
85	57.7	43.7	65.5
99	63.4	48.7	73.1

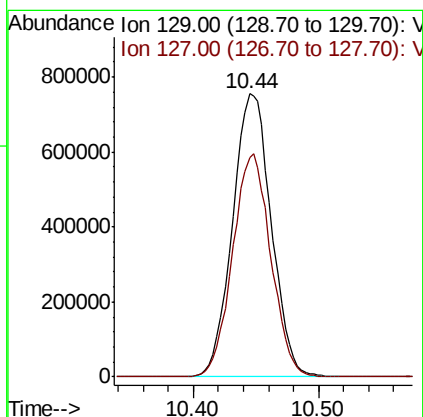
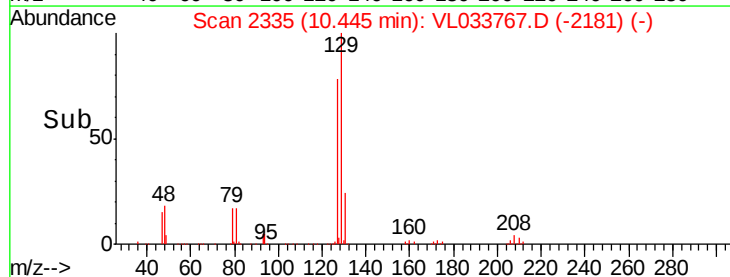
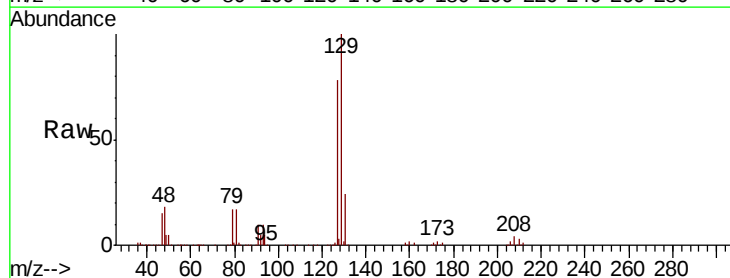
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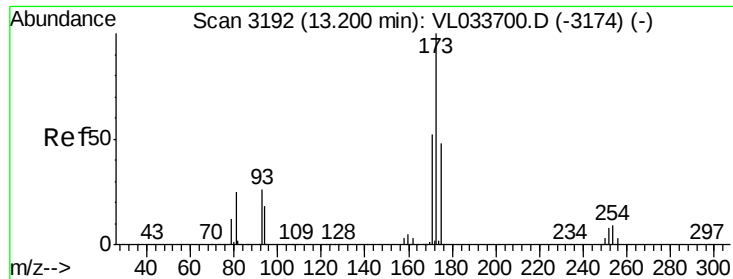
MMDadoda
 5/28/2019 2:51:35 AM



#48
 Dibromochloromethane
 Concen: 10.969 ppbv
 RT: 10.44 min Scan# 2335
 Delta R.T. -0.01 min
 Lab File: VL033767.D
 Acq: 23 May 2019 5:45

Tgt Ion:	129	Resp:	1622163
Ion	Ratio	Lower	Upper
129	100		
127	77.8	38.6	116.0





#49

Bromoform

Concen: 12.143 ppbv

RT: 13.20 min Scan# 3191

Delta R.T. -0.00 min

Lab File: VL033767.D

Acq: 23 May 2019 5:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:173 Resp: 1510924

Ion Ratio Lower Upper

173 100

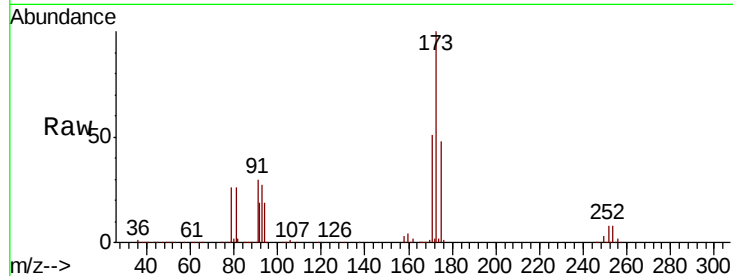
175 48.7 38.6 58.0

171 52.0 41.5 62.3

Manual Integrations
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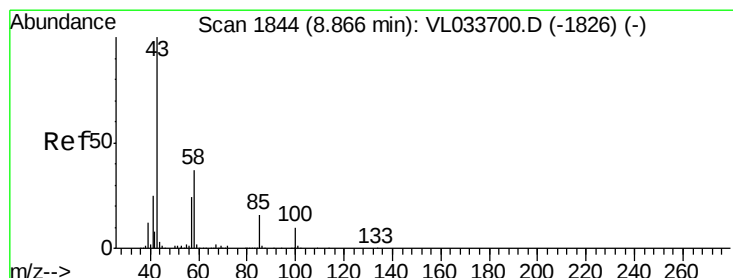
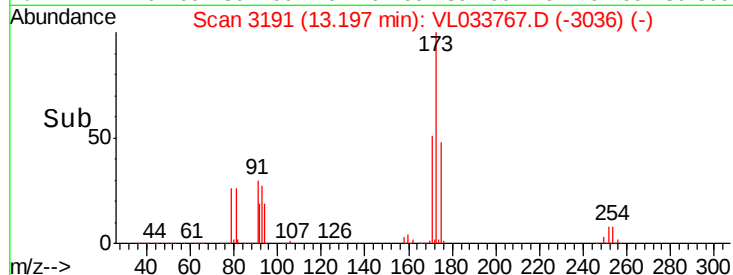
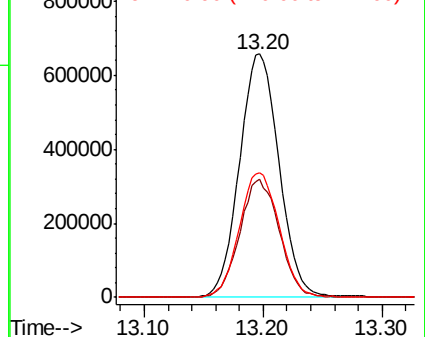
5/28/2019 2:51:35 AM



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 10.691 ppbv

RT: 8.86 min Scan# 1843

Delta R.T. -0.00 min

Lab File: VL033767.D

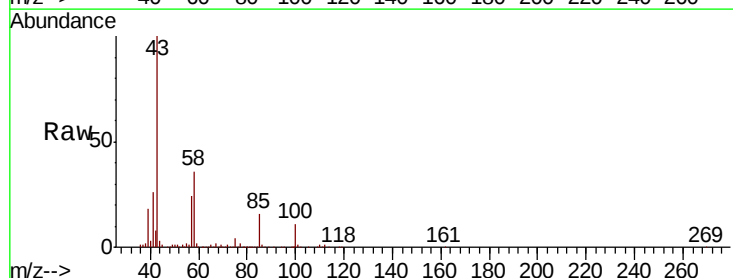
Acq: 23 May 2019 5:45

Tgt Ion: 43 Resp: 2257858

Ion Ratio Lower Upper

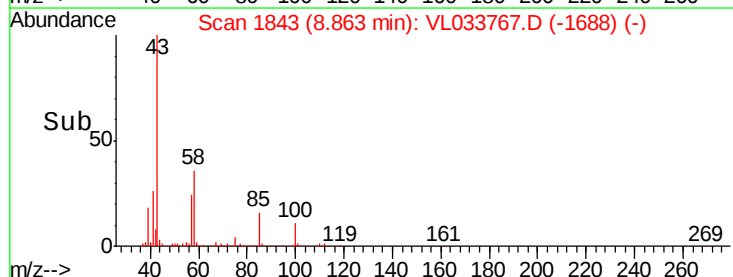
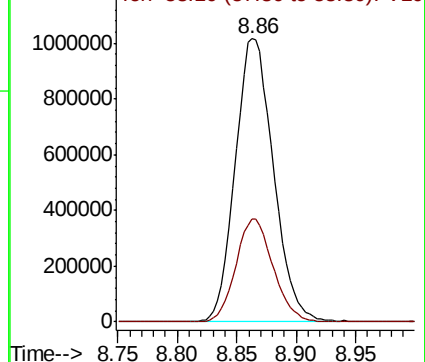
43 100

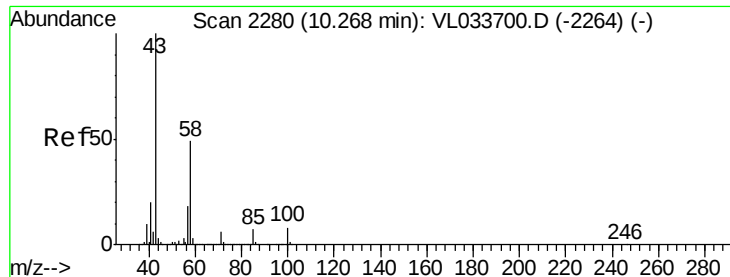
58 35.6 28.6 43.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 11.308 ppbv

RT: 10.26 min Scan# 2279

Delta R.T. -0.00 min

Lab File: VL033767.D

Acq: 23 May 2019 5:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1863900

Ion Ratio Lower Upper

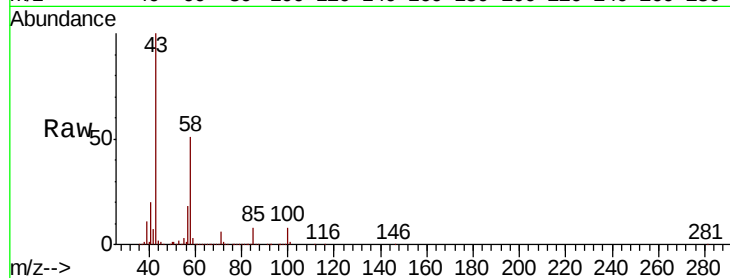
43 100

58 48.2 38.7 58.1

98 0.3 0.2 0.4

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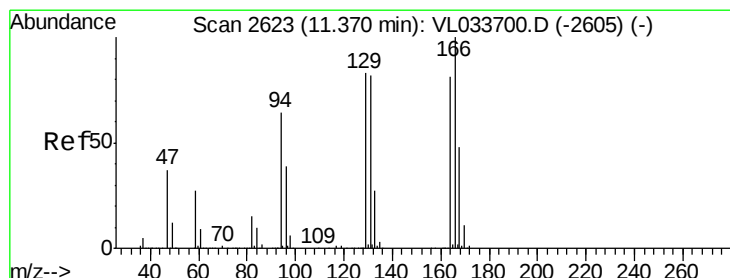
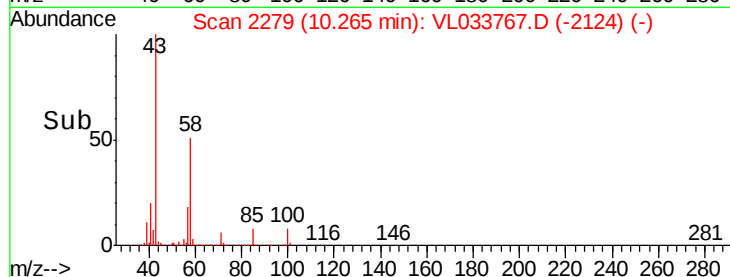
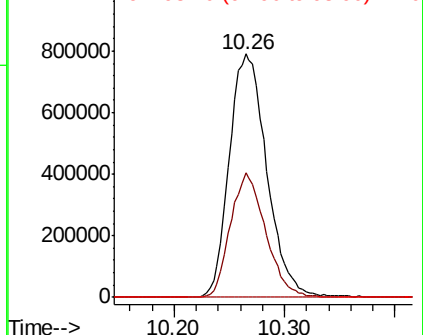


Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 11.200 ppbv

RT: 11.37 min Scan# 2622

Delta R.T. -0.00 min

Lab File: VL033767.D

Acq: 23 May 2019 5:45

Tgt Ion: 164 Resp: 793359

Ion Ratio Lower Upper

164 100

166 120.5 98.9 148.3

129 99.2 81.8 122.6

131 97.0 81.1 121.7

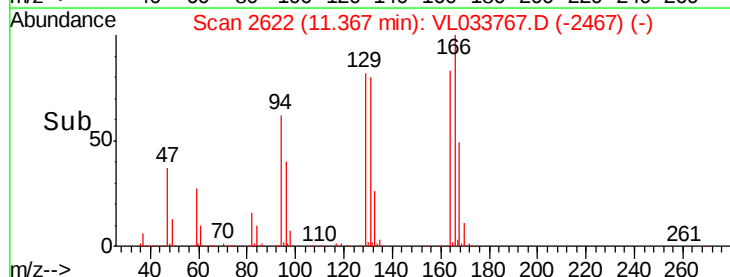
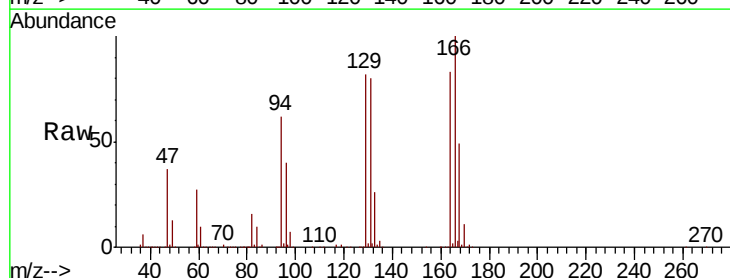
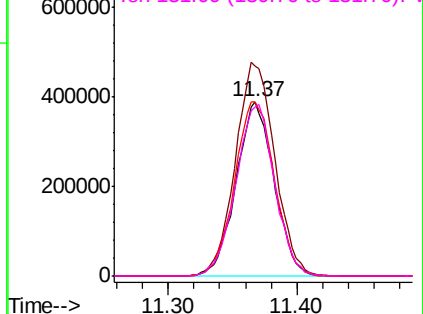
Abundance

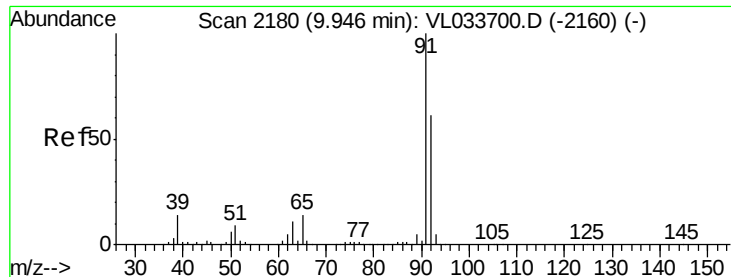
Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 11.329 ppbv

RT: 9.94 min Scan# 2178

Delta R.T. -0.01 min

Lab File: VL033767.D

Acq: 23 May 2019 5:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 2462226

Ion Ratio Lower Upper

91 100

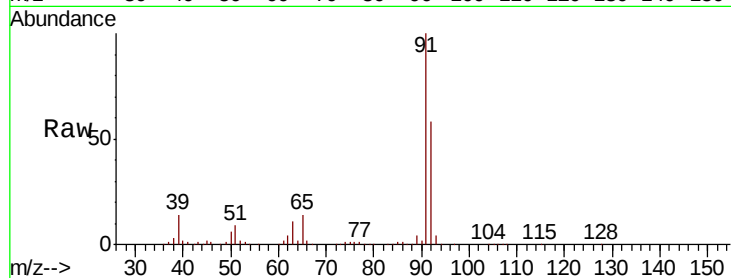
92 59.4 47.6 71.4

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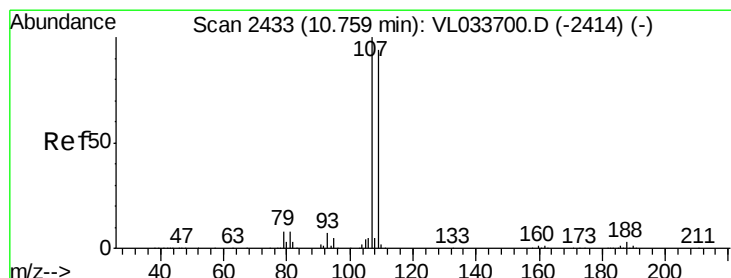
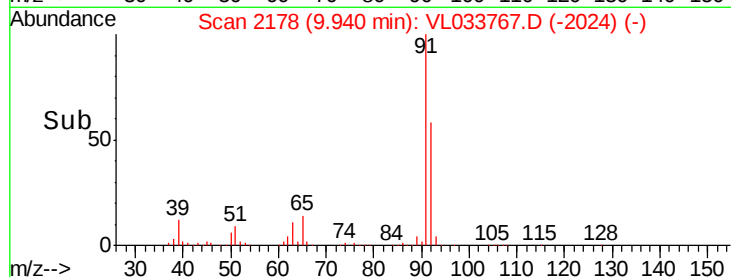
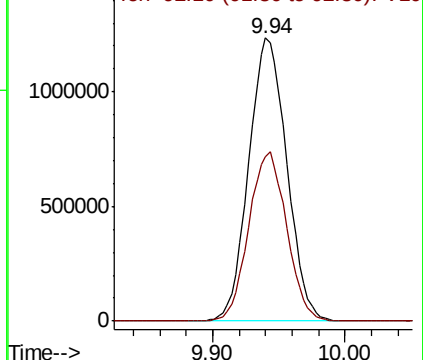
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 10.603 ppbv

RT: 10.76 min Scan# 2432

Delta R.T. -0.00 min

Lab File: VL033767.D

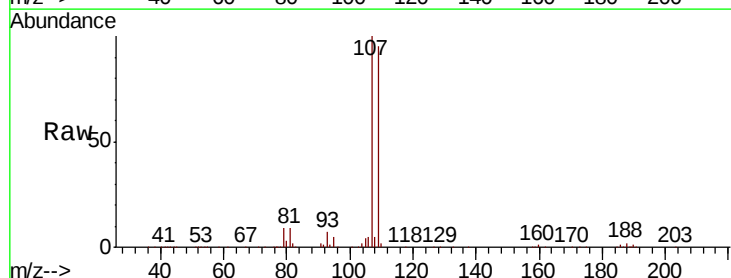
Acq: 23 May 2019 5:45

Tgt Ion:107 Resp: 1381034

Ion Ratio Lower Upper

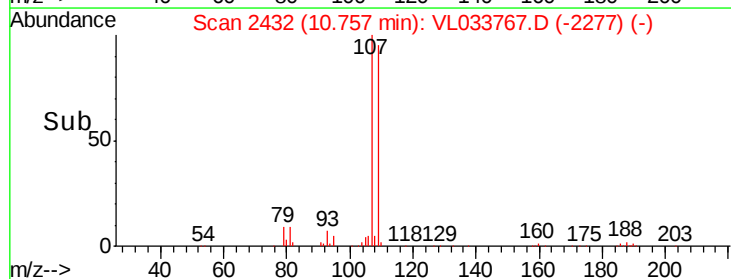
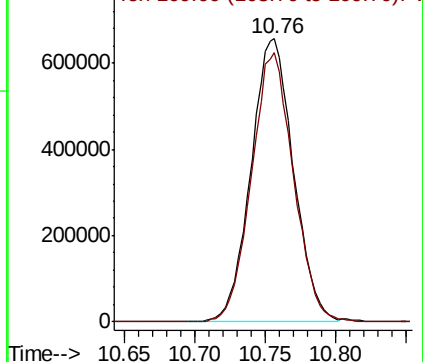
107 100

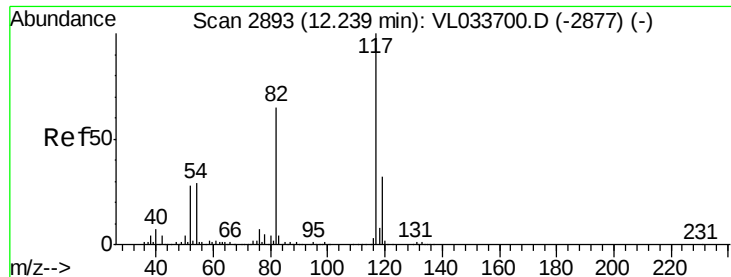
109 95.0 75.2 112.8



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





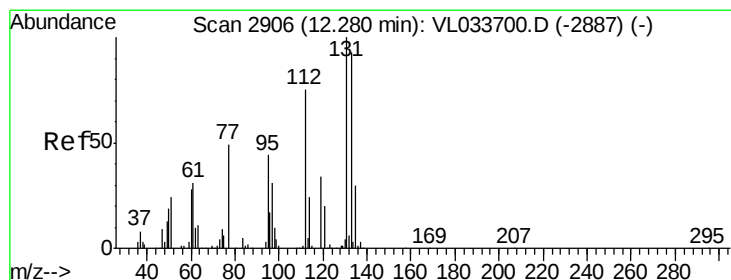
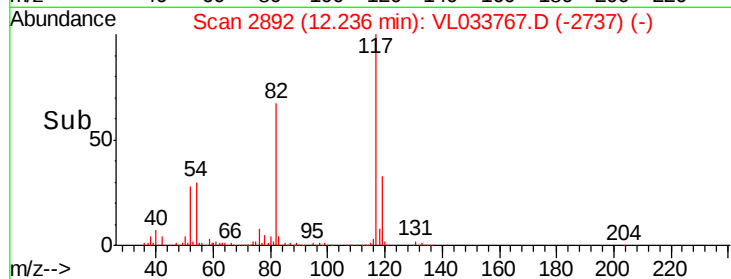
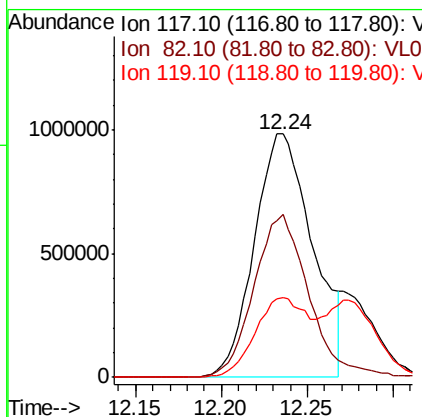
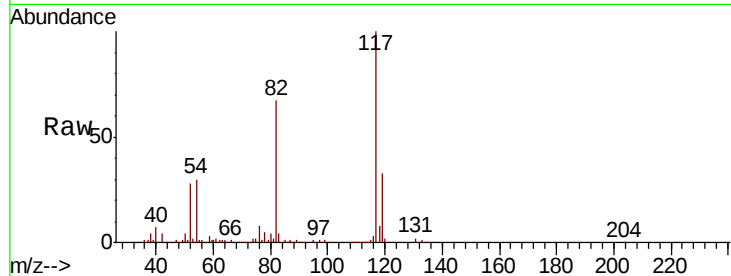
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2892
Delta R.T. -0.00 min
Lab File: VL033767.D
Acq: 23 May 2019 5:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
117	100		
82	63.3	49.4	74.0
119	30.2	24.9	37.3

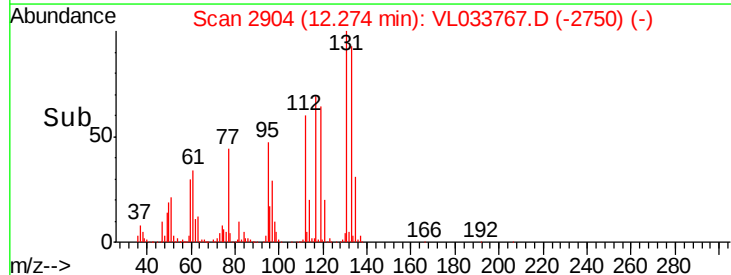
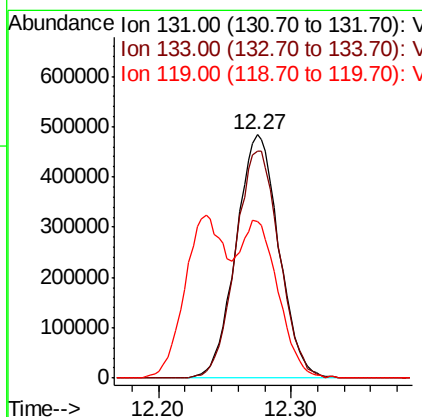
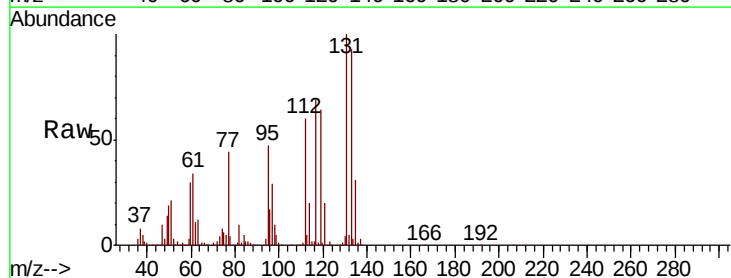
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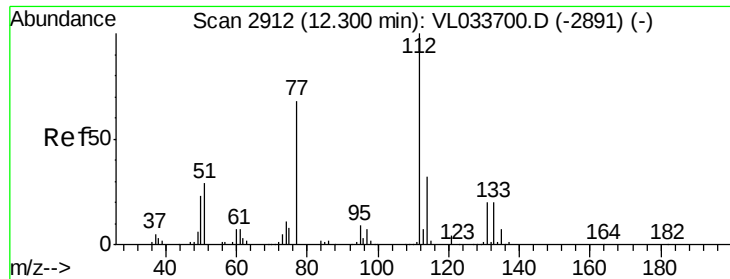
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#56
1,1,1,2-Tetrachloroethane
Concen: 10.043 ppbv
RT: 12.27 min Scan# 2904
Delta R.T. -0.01 min
Lab File: VL033767.D
Acq: 23 May 2019 5:45

Tgt Ion	Ratio	Lower	Upper
131	100		
133	96.5	76.6	114.8
119	64.4	49.0	73.4





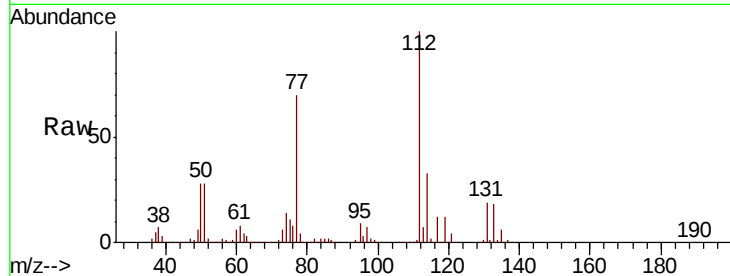
#57
Chlorobenzene
Concen: 9.951 ppbv
RT: 12.30 min Scan# 2911
Delta R.T. -0.00 min
Lab File: VL033767.D
Acq: 23 May 2019 5:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

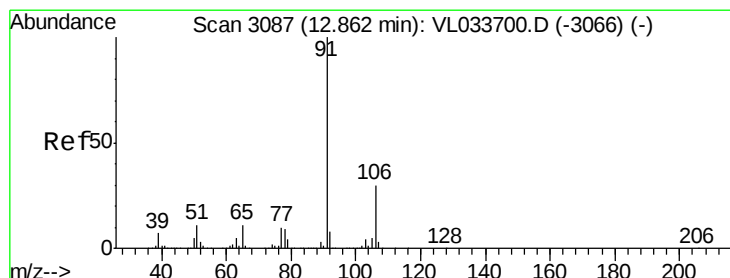
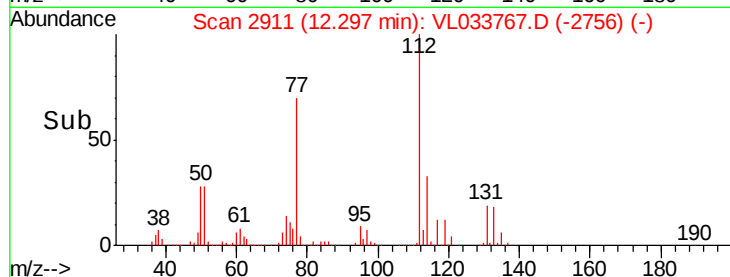
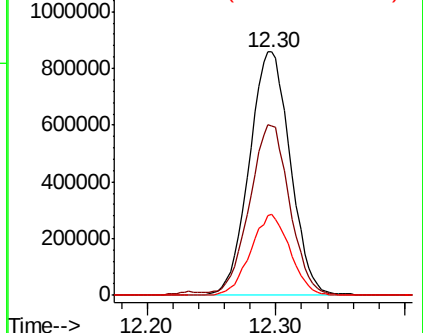
Tot Ion	Ratio	Lower	Upper
112	100		
77	69.4	55.4	83.0
114	33.3	29.3	35.8

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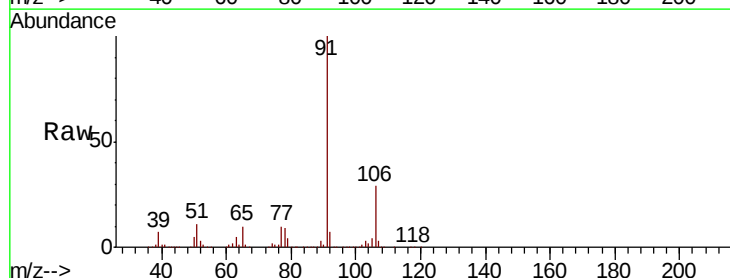


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V

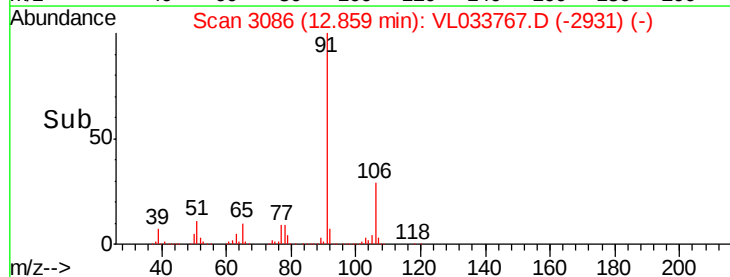
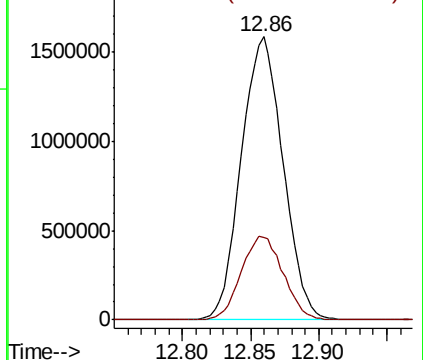


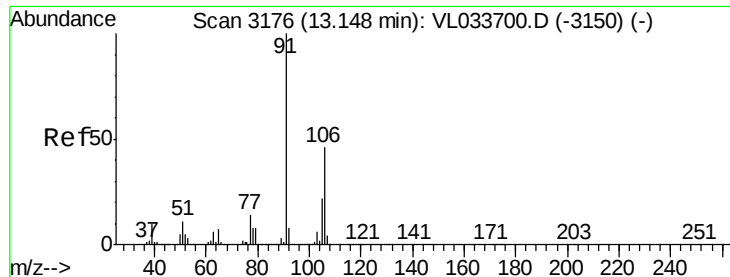
#58
Ethyl Benzene
Concen: 11.000 ppbv
RT: 12.86 min Scan# 3086
Delta R.T. -0.00 min
Lab File: VL033767.D
Acq: 23 May 2019 5:45

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.2	23.9	35.9



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





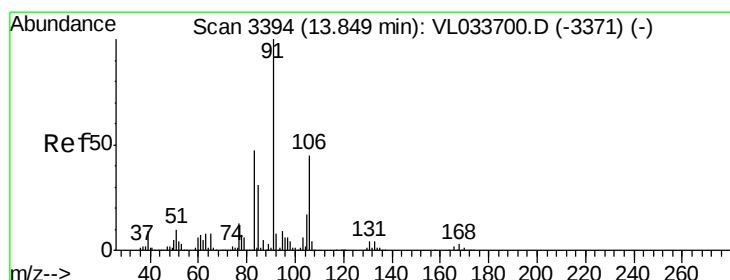
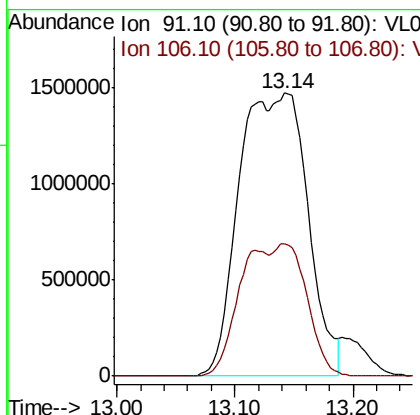
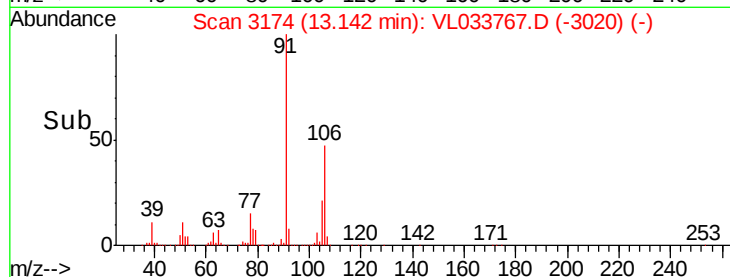
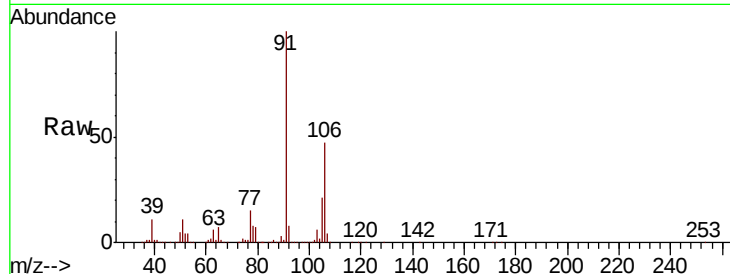
#59
m/p-Xylene
Concen: 22.226 ppbv m
RT: 13.14 min Scan# 3174
Delta R.T. -0.01 min
Lab File: VL033767.D
Acq: 23 May 2019 5:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 91 Resp: 5964274
Ion Ratio Lower Upper
91 100
106 45.0 35.8 53.6

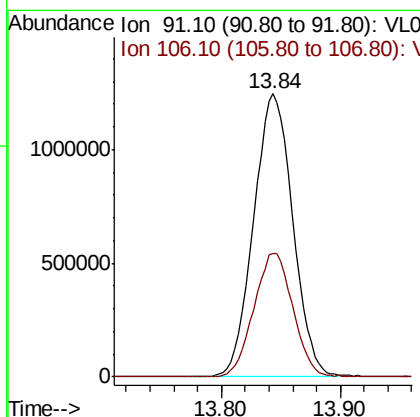
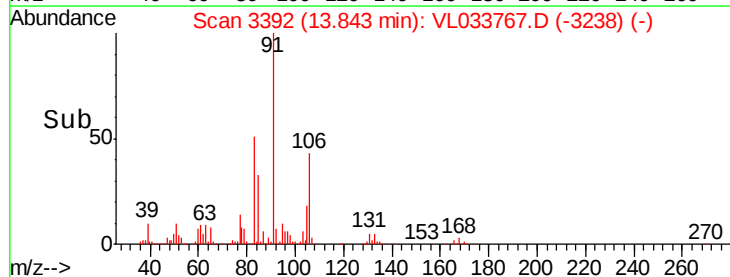
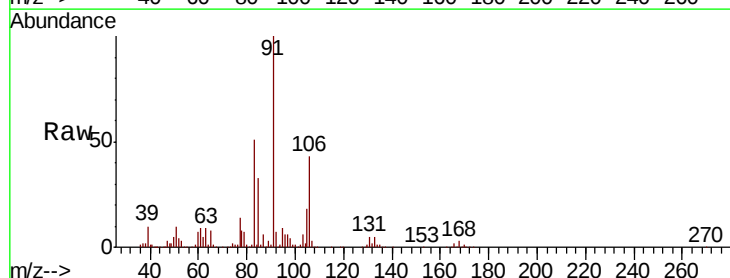
Manual Integrations
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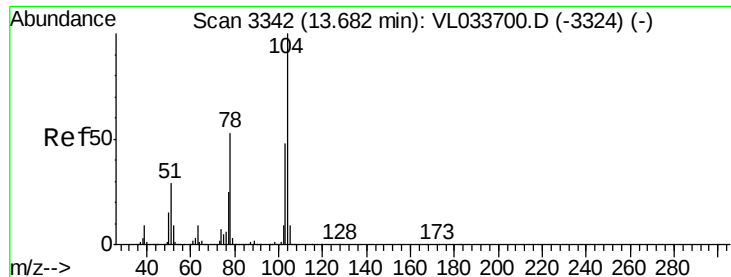
MMDadoda
5/28/2019 2:51:35 AM



#60
o-Xylene
Concen: 10.483 ppbv
RT: 13.84 min Scan# 3392
Delta R.T. -0.01 min
Lab File: VL033767.D
Acq: 23 May 2019 5:45

Tgt Ion: 91 Resp: 2835791
Ion Ratio Lower Upper
91 100
106 43.7 21.6 64.8





#61

Stvrene

Concen: 11.647 ppbv

RT: 13.68 min Scan# 3341

Delta R.T. -0.00 min

Lab File: VL033767.D

Acq: 23 May 2019 5:45

Instrument :

MSVOA_L

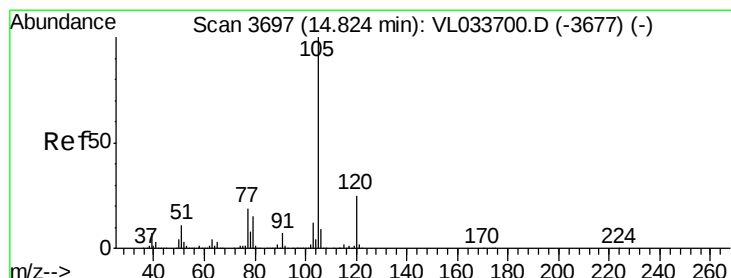
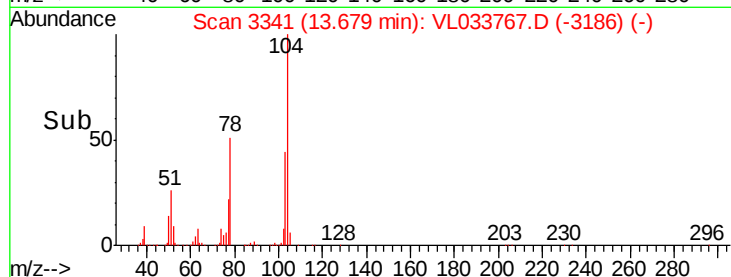
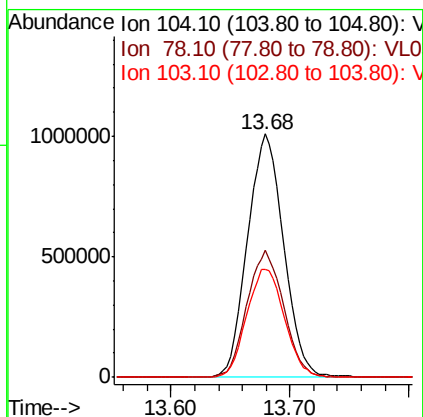
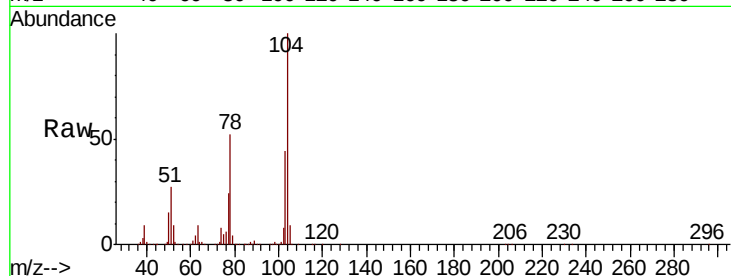
ClientSampleId :

VSTDCCC010

Tot Ion	Ratio	Lower	Upper
104	100		
78	53.1	42.6	64.0
103	46.6	37.8	56.6

Manual Integrations
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#62

Isopropylbenzene

Concen: 10.541 ppbv

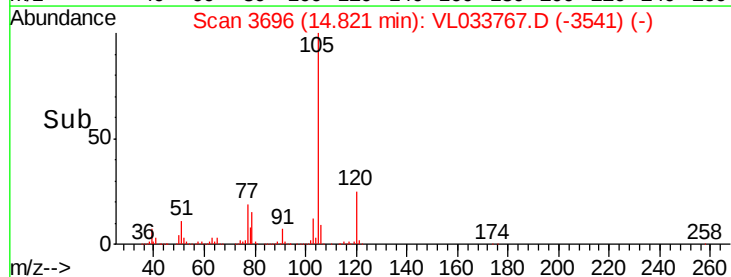
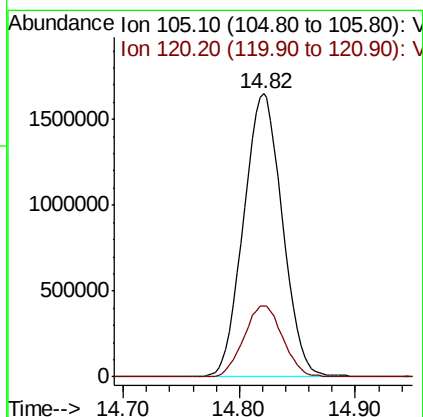
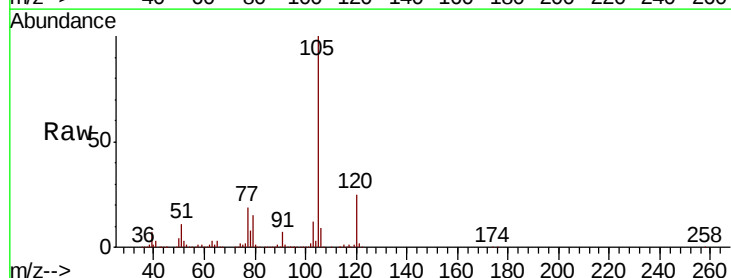
RT: 14.82 min Scan# 3696

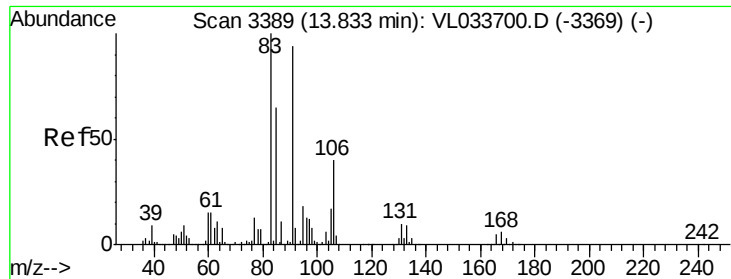
Delta R.T. -0.00 min

Lab File: VL033767.D

Acq: 23 May 2019 5:45

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.3	20.1	30.1





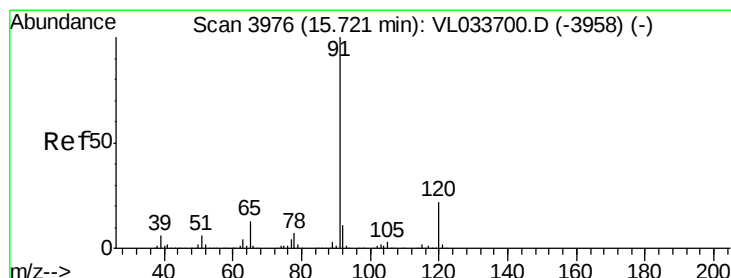
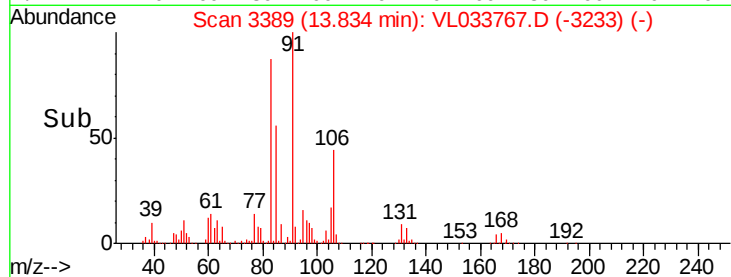
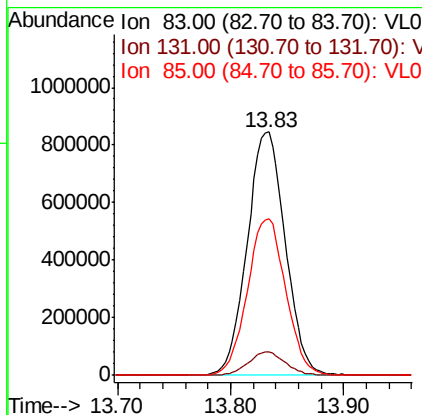
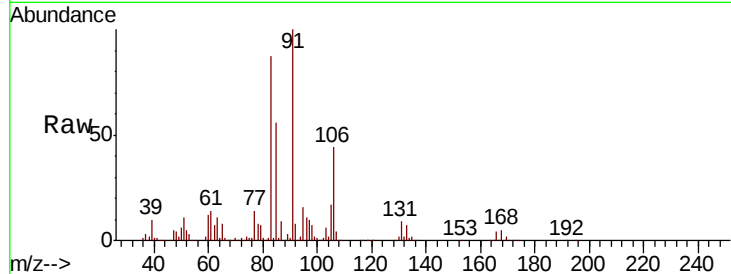
#63
 1,1,2,2-Tetrachloroethane
 Concen: 10.055 ppbv
 RT: 13.83 min Scan# 3389
 Delta R.T. 0.00 min
 Lab File: VL033767.D
 Acq: 23 May 2019 5:45

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	83	Resp	1978079
Ion Ratio	100	Lower	Upper
83	100		
131	9.4	4.8	14.3
85	65.0	32.3	96.9

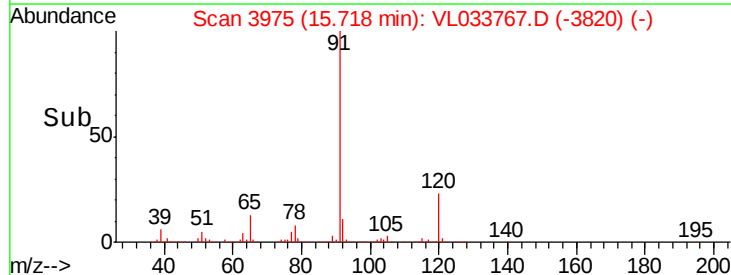
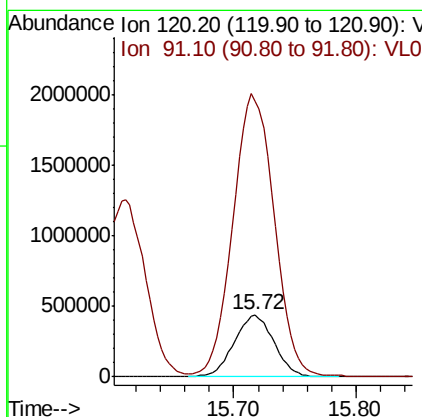
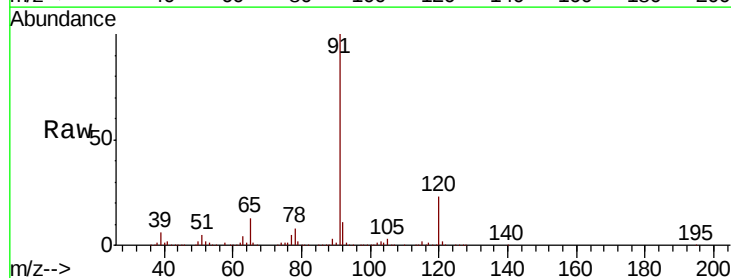
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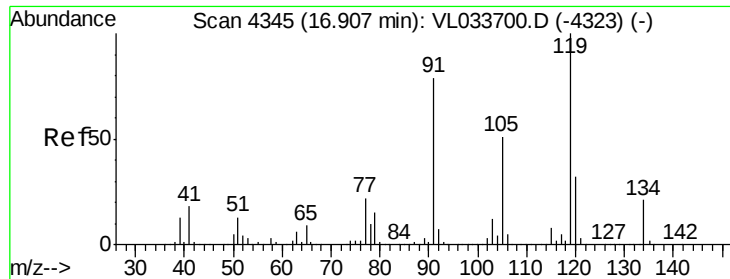
MMDadoda
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#64
 n-propylbenzene
 Concen: 10.538 ppbv
 RT: 15.72 min Scan# 3975
 Delta R.T. -0.00 min
 Lab File: VL033767.D
 Acq: 23 May 2019 5:45

Tgt Ion	120	Resp	993039
Ion Ratio	100	Lower	Upper
120	100		
91	478.3	379.1	568.7





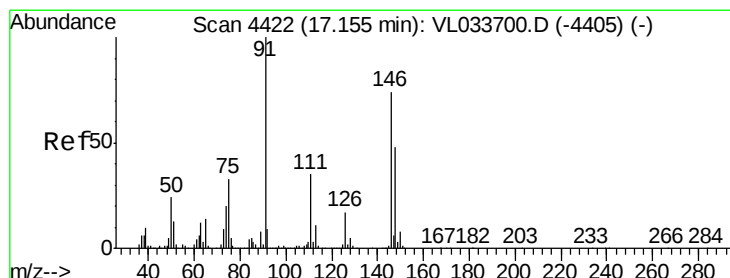
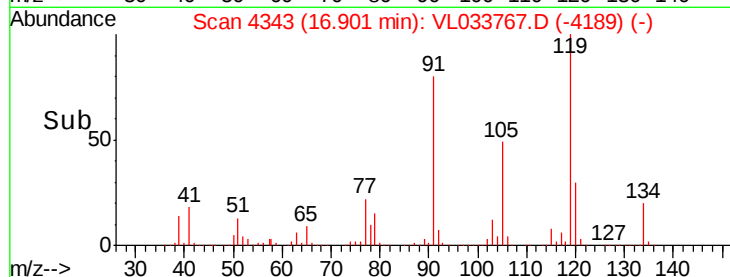
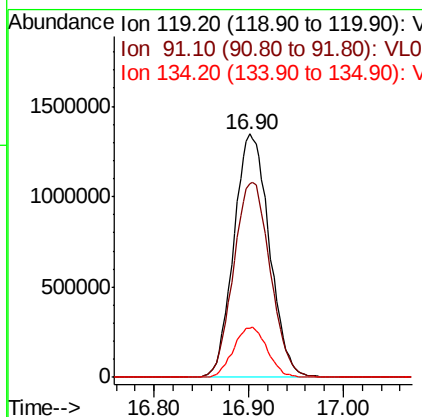
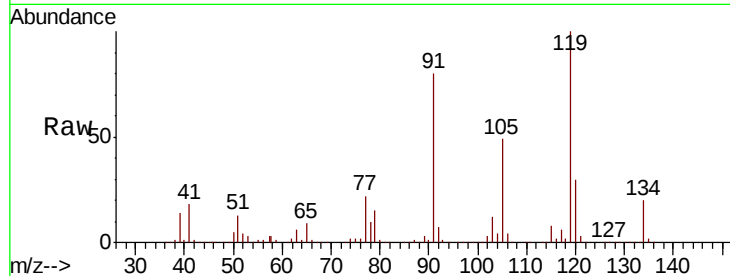
#65
 tert-Butylbenzene
 Concen: 10.553 ppbv
 RT: 16.90 min Scan# 4343
 Delta R.T. -0.01 min
 Lab File: VL033767.D
 Acq: 23 May 2019 5:45

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 119 Resp: 3510101
 Ion Ratio Lower Upper
 119 100
 91 83.0 65.3 97.9
 134 19.6 15.7 23.5

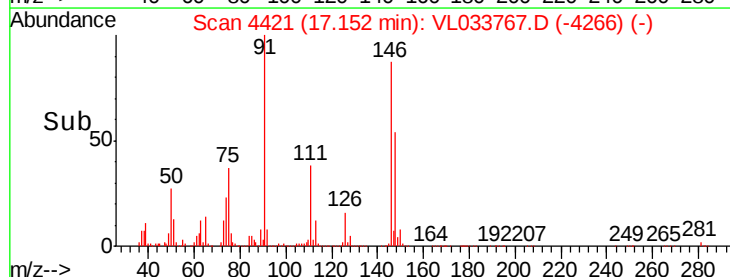
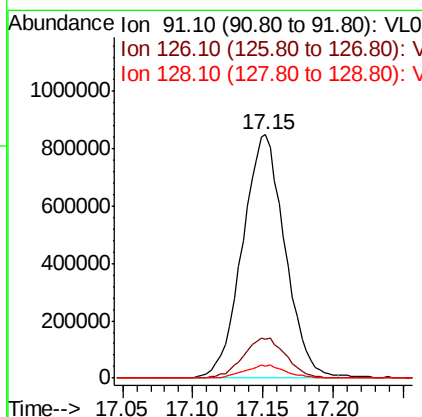
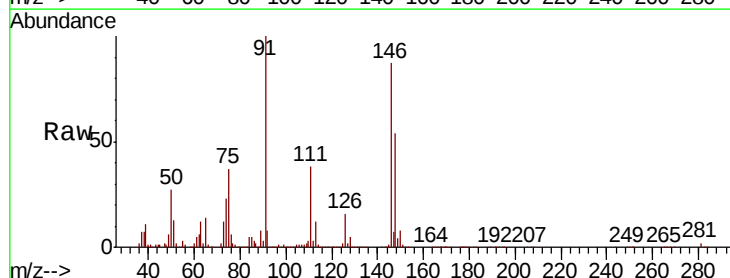
Manual Integrations
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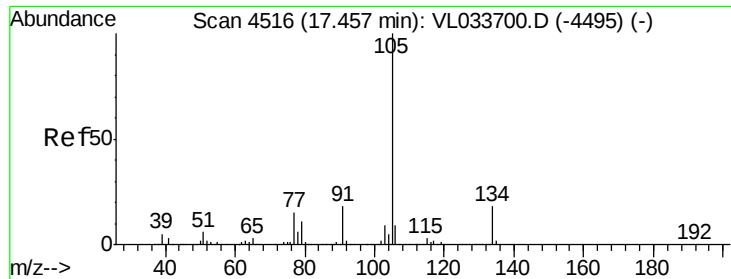
MMDadoda
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#66
 Benzyl Chloride
 Concen: 11.270 ppbv
 RT: 17.15 min Scan# 4421
 Delta R.T. -0.00 min
 Lab File: VL033767.D
 Acq: 23 May 2019 5:45

Tgt Ion: 91 Resp: 1785342
 Ion Ratio Lower Upper
 91 100
 126 16.8 13.5 20.3
 128 5.3 4.3 6.5





#67

sec-Butylbenzene

Concen: 10.620 ppbv

RT: 17.45 min Scan# 4514

Delta R.T. -0.01 min

Lab File: VL033767.D

Acq: 23 May 2019 5:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:105 Resp: 4943916

Ion Ratio Lower Upper

105 100

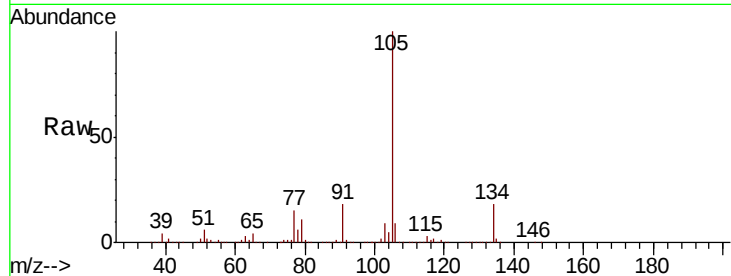
134 18.0 14.6 22.0

Manual Integrations

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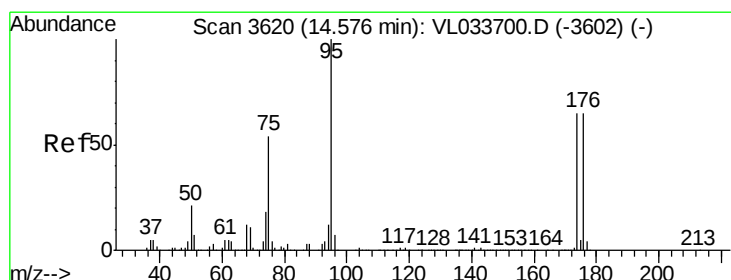
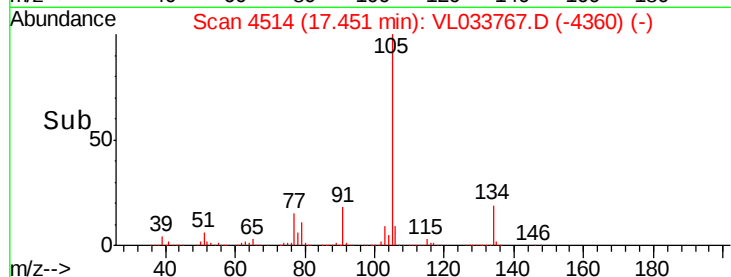
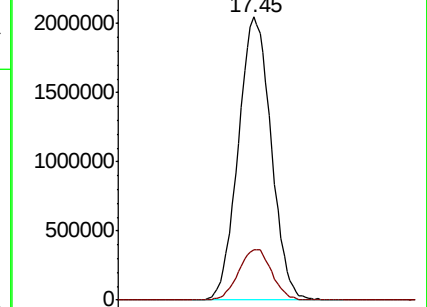
MMDadoda

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.675 ppbv

RT: 14.57 min Scan# 3619

Delta R.T. -0.00 min

Lab File: VL033767.D

Acq: 23 May 2019 5:45

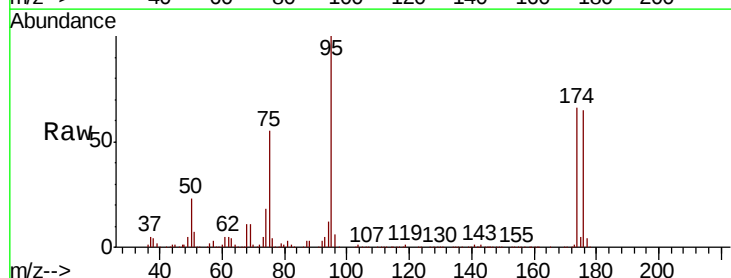
Tgt Ion: 95 Resp: 1818147

Ion Ratio Lower Upper

95 100

174 66.8 53.9 80.9

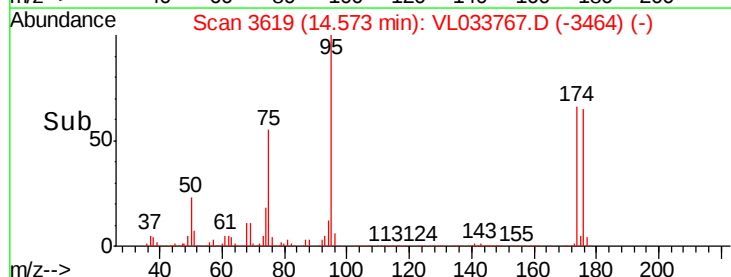
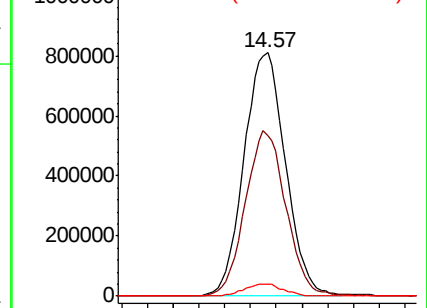
175 4.8 3.8 5.8

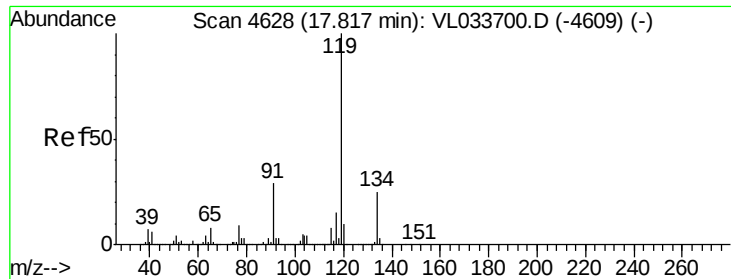


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





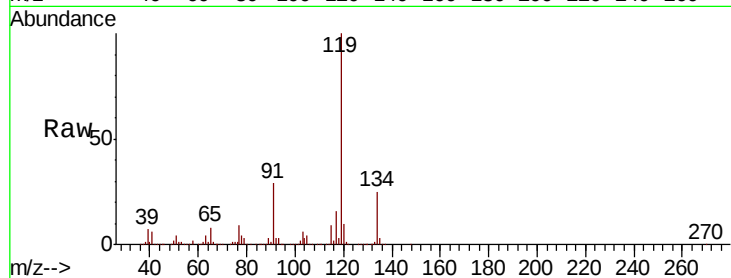
#69
p-Isopropyltoluene
Concen: 10.611 ppbv
RT: 17.81 min Scan# 4626
Delta R.T. -0.01 min
Lab File: VL033767.D
Acq: 23 May 2019 5:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.0	20.3	30.5
91	29.3	23.1	34.7

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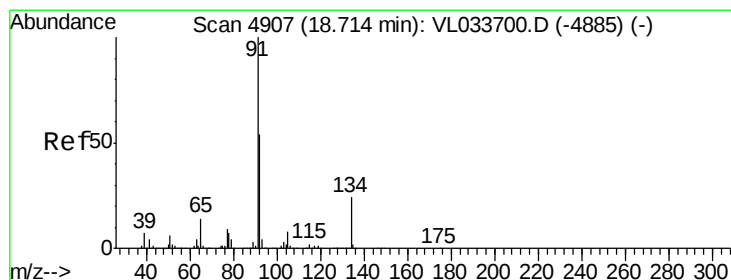
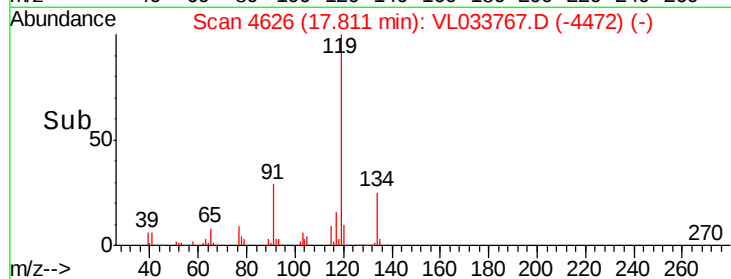
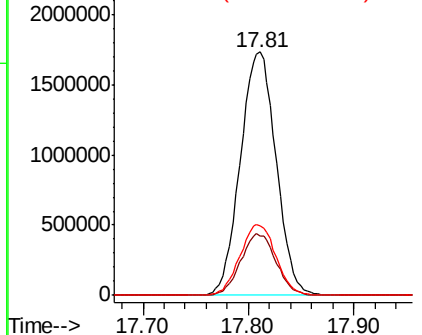


Abundance

Ion 119.10 (118.80 to 119.80): V

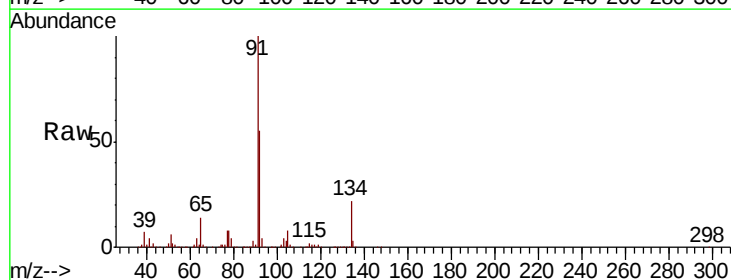
Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V



#70
n-Butylbenzene
Concen: 10.257 ppbv
RT: 18.71 min Scan# 4905
Delta R.T. -0.01 min
Lab File: VL033767.D
Acq: 23 May 2019 5:45

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.5	42.6	63.8
134	22.1	18.1	27.1

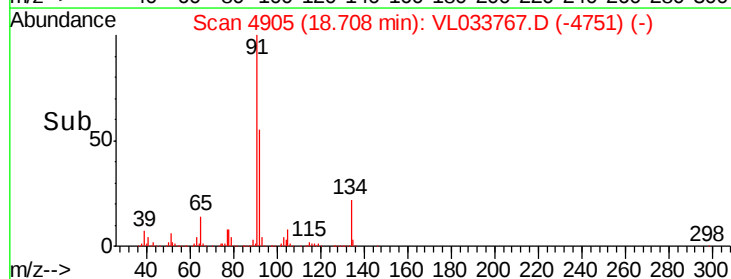
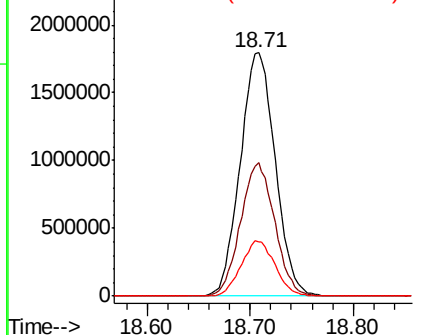


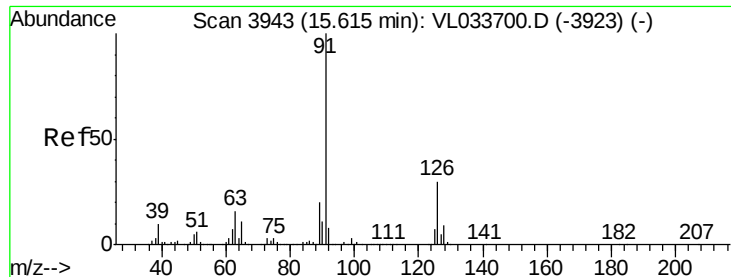
Abundance

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: 10.717 ppbv

RT: 15.61 min Scan# 3942

Delta R.T. -0.00 min

Lab File: VL033767.D

Acq: 23 May 2019 5:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 2896638

Ion Ratio Lower Upper

91 100

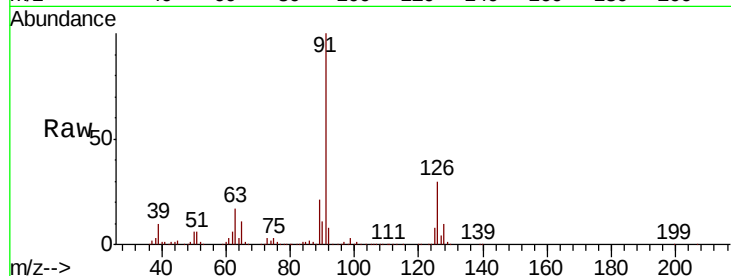
126 29.8 12.0 47.8

Manual Integrations

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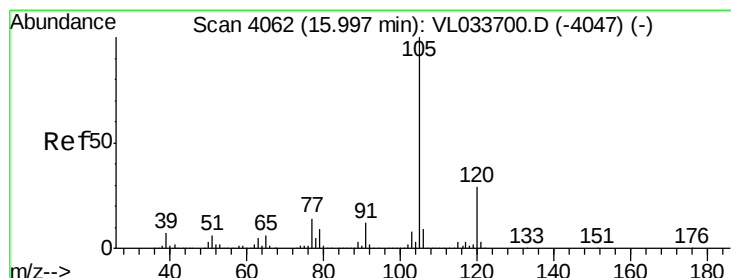
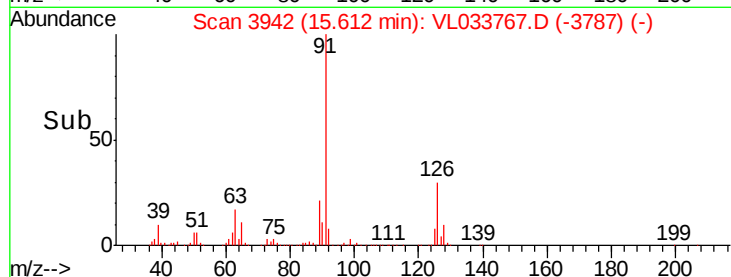
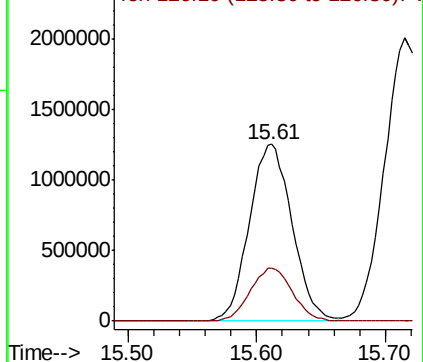
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 10.712 ppbv

RT: 15.99 min Scan# 4061

Delta R.T. -0.00 min

Lab File: VL033767.D

Acq: 23 May 2019 5:45

Tgt Ion:105 Resp: 3313255

Ion Ratio Lower Upper

105 100

120 29.3 23.1 34.7

91 13.8 10.4 15.6

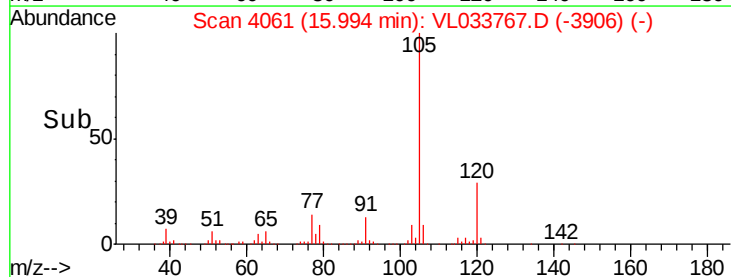
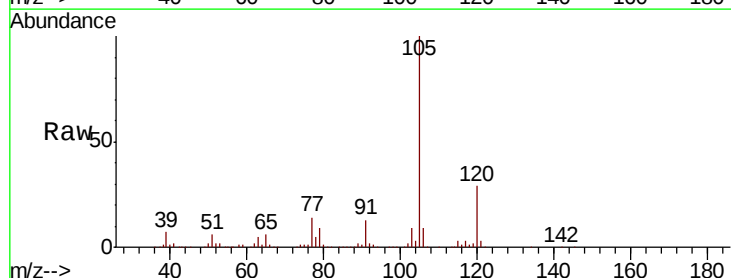
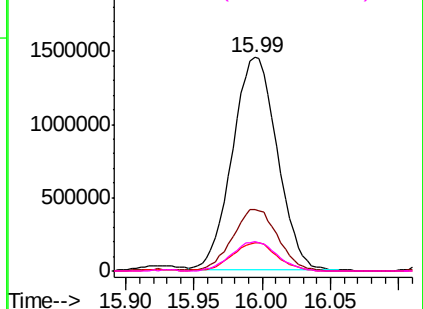
77 14.5 11.0 16.6

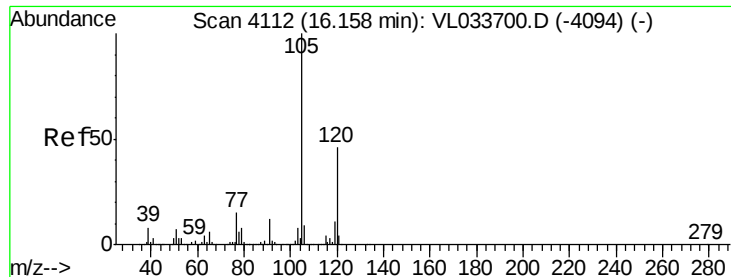
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 10.637 ppbv

RT: 16.15 min Scan# 4110

Delta R.T. -0.01 min

Lab File: VL033767.D

Acq: 23 May 2019 5:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:105 Resp: 3210095

Ion Ratio Lower Upper

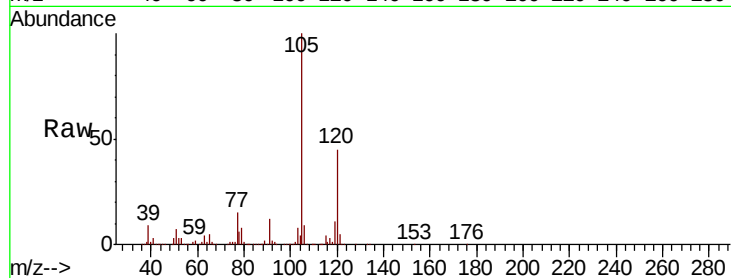
105 100

120 44.7 37.0 55.4

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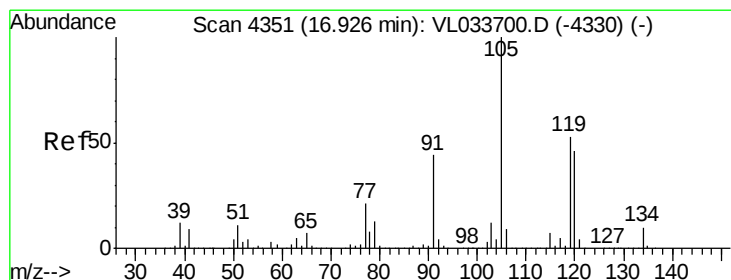
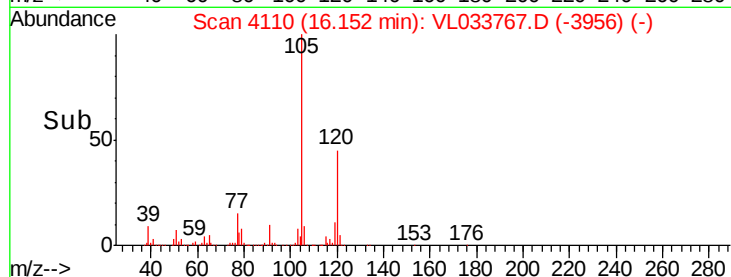
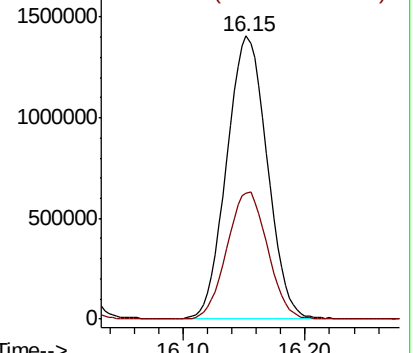
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 10.282 ppbv

RT: 16.92 min Scan# 4349

Delta R.T. -0.01 min

Lab File: VL033767.D

Acq: 23 May 2019 5:45

Tgt Ion:105 Resp: 3376811

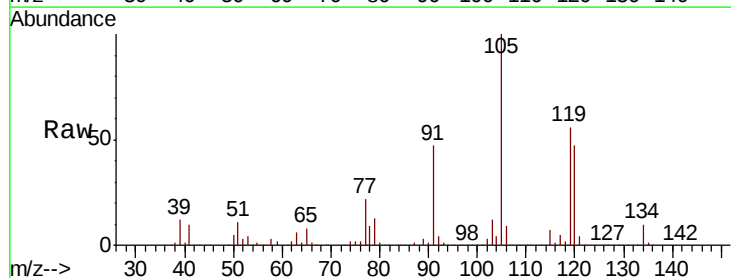
Ion Ratio Lower Upper

105 100

120 46.5 36.8 55.2

91 46.8 35.4 53.0

77 21.6 16.8 25.2

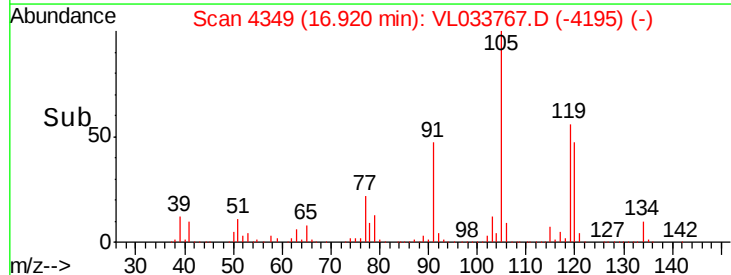
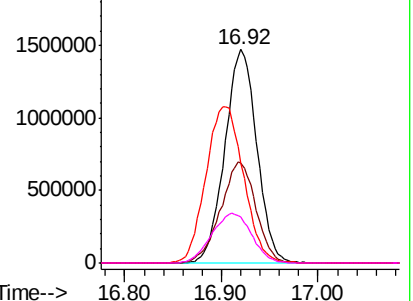


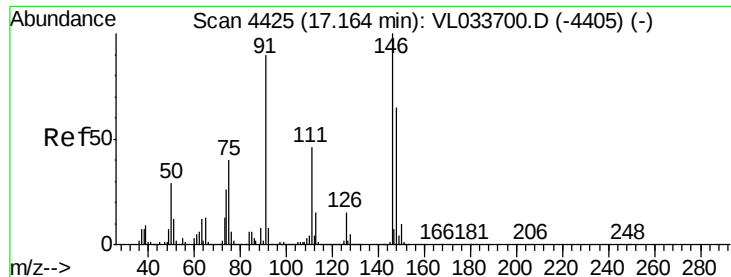
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VLO

Ion 77.10 (76.80 to 77.80): VLO





#75

1,3-Dichlorobenzene

Concen: 9.675 ppbv

RT: 17.16 min Scan# 4423

Delta R.T. -0.01 min

Lab File: VL033767.D

Acq: 23 May 2019 5:45

Instrument :

MSVOA_L

ClientSampled :

VSTDCCC010

Tot Ion:146 Resp: 1947079

Ion Ratio Lower Upper

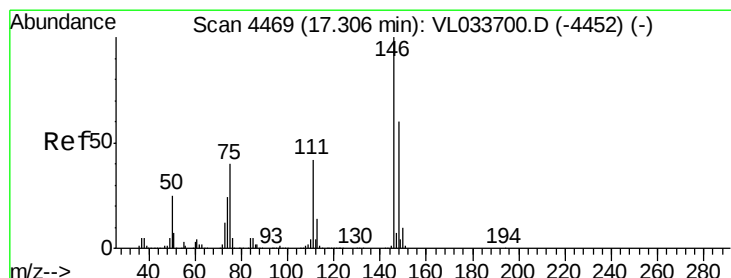
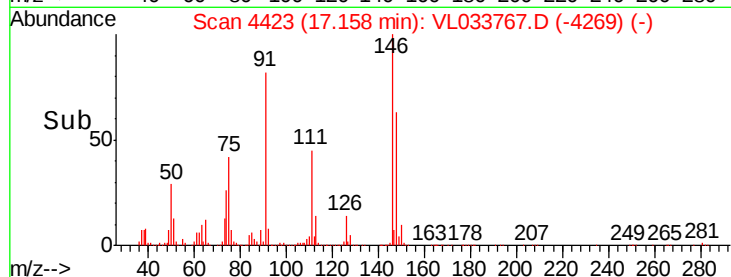
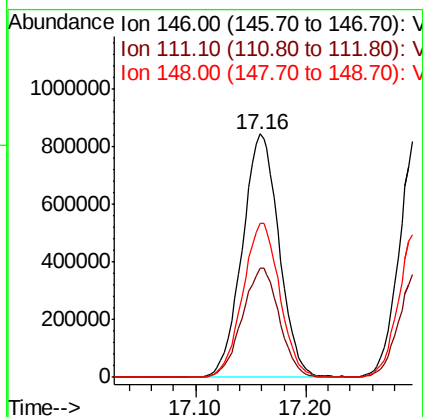
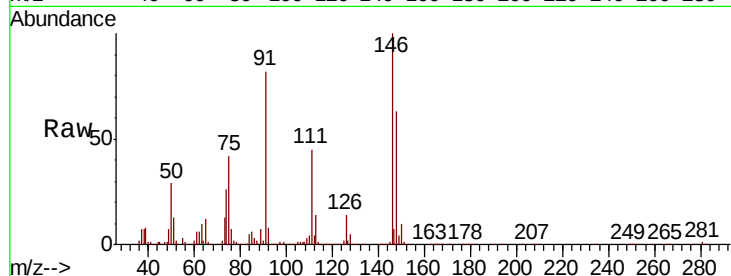
146 100

111 45.2 22.9 68.8

148 63.8 32.0 96.2

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#76

1,4-Dichlorobenzene

Concen: 10.006 ppbv

RT: 17.30 min Scan# 4467

Delta R.T. -0.01 min

Lab File: VL033767.D

Acq: 23 May 2019 5:45

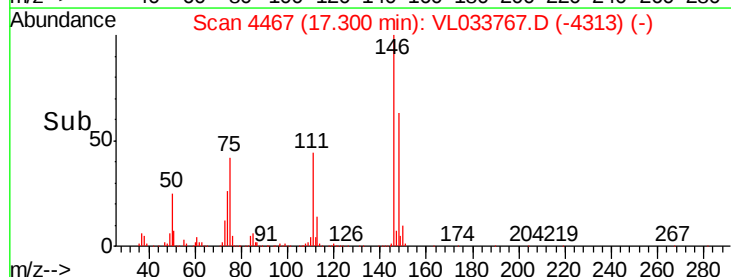
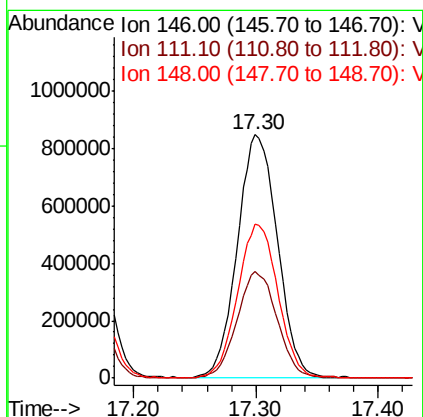
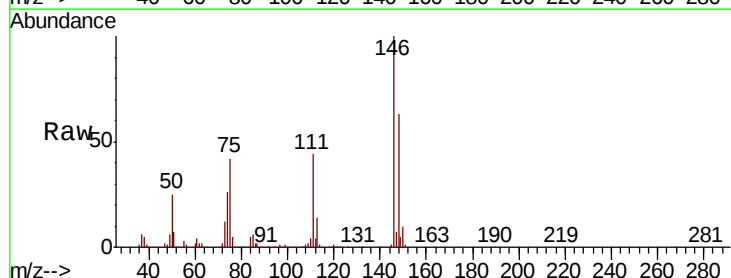
Tgt Ion:146 Resp: 1913921

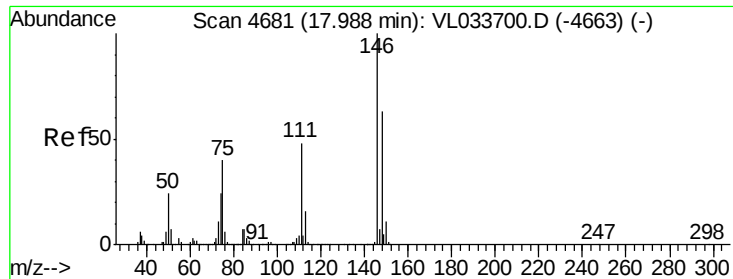
Ion Ratio Lower Upper

146 100

111 44.1 21.9 65.8

148 64.0 32.1 96.3





#77

1,2-Dichlorobenzene

Concen: 9.927 ppbv

RT: 17.98 min Scan# 4679

Delta R.T. -0.01 min

Lab File: VL033767.D

Acq: 23 May 2019 5:45

Instrument :

MSVOA_L

ClientSampled :

VSTDCCC010

Tot Ion:146 Resp: 1877239

Ion Ratio Lower Upper

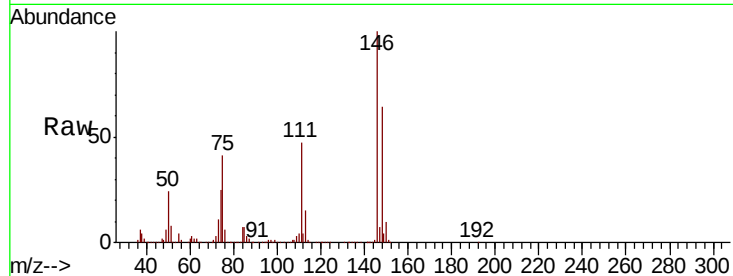
146 100

111 46.8 23.5 70.5

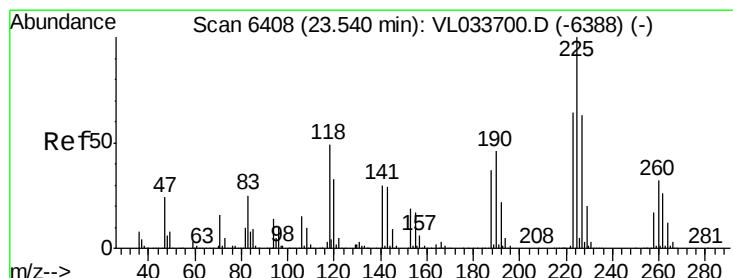
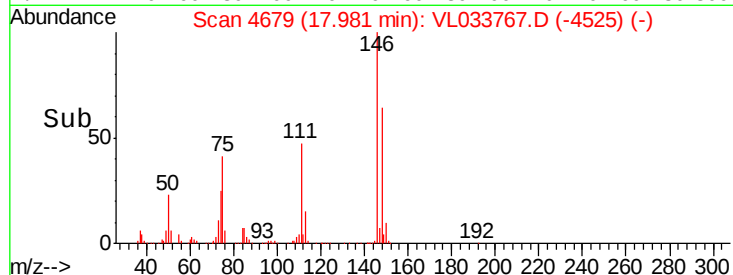
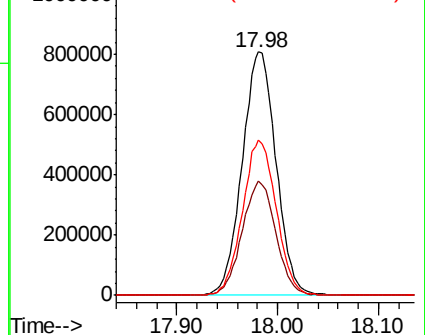
148 63.8 32.1 96.3

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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: 8.048 ppbv

RT: 23.53 min Scan# 6406

Delta R.T. -0.01 min

Lab File: VL033767.D

Acq: 23 May 2019 5:45

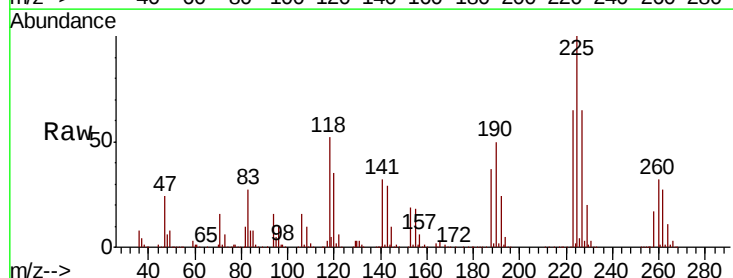
Tgt Ion:225 Resp: 1150724

Ion Ratio Lower Upper

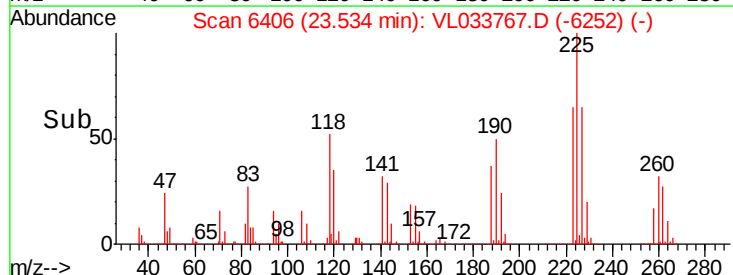
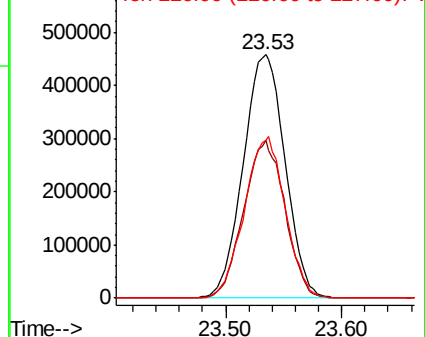
225 100

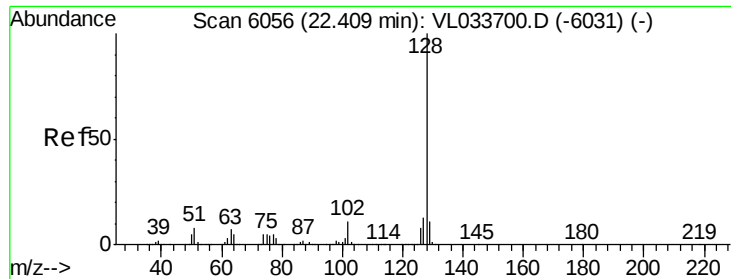
223 63.5 50.2 75.4

227 64.8 50.7 76.1



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: 9.247 ppbv

RT: 22.40 min Scan# 6053

Delta R.T. -0.01 min

Lab File: VL033767.D

Acq: 23 May 2019 5:45

Instrument :

MSVOA_L

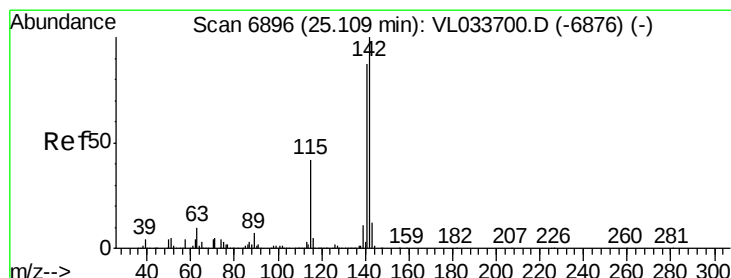
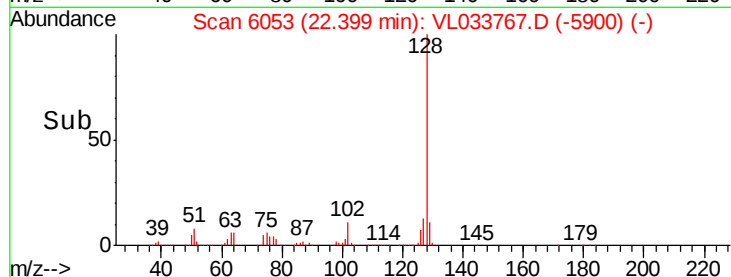
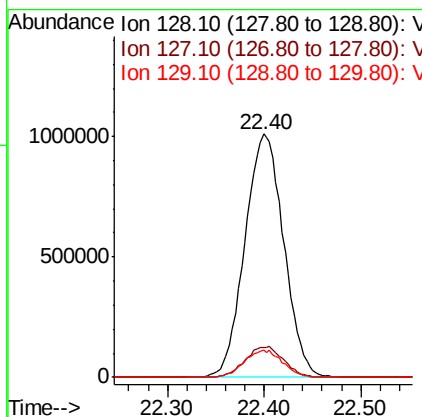
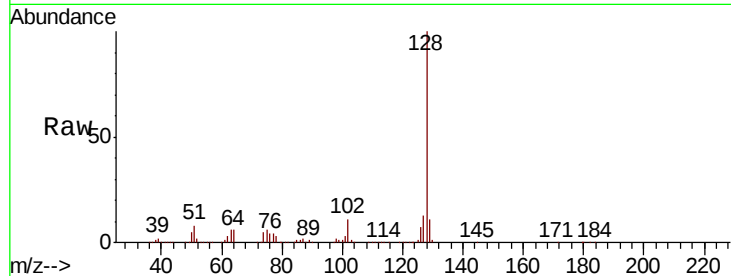
ClientSampleId :

VSTDCCC010

Tot Ion:	128	Resp:	2820756
Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.6	16.0
129	11.2	8.9	13.3

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#80

Naphthalene, 2-methyl-

Concen: 8.234 ppbv

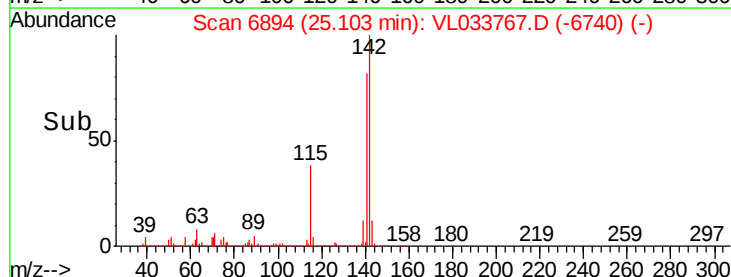
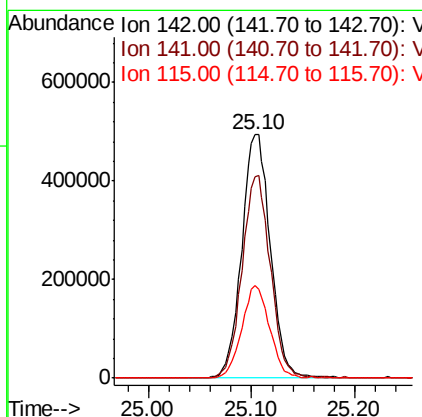
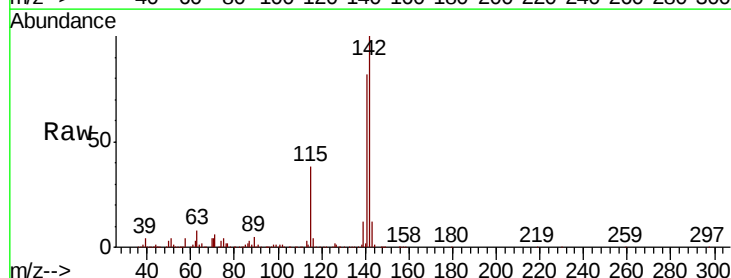
RT: 25.10 min Scan# 6894

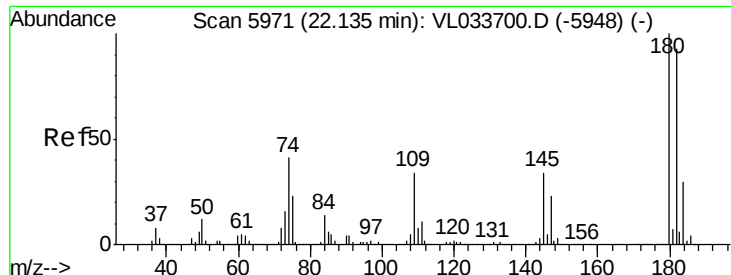
Delta R.T. -0.01 min

Lab File: VL033767.D

Acq: 23 May 2019 5:45

Tgt Ion:	142	Resp:	954372
Ion	Ratio	Lower	Upper
142	100		
141	82.8	67.2	100.8
115	37.3	34.1	51.1





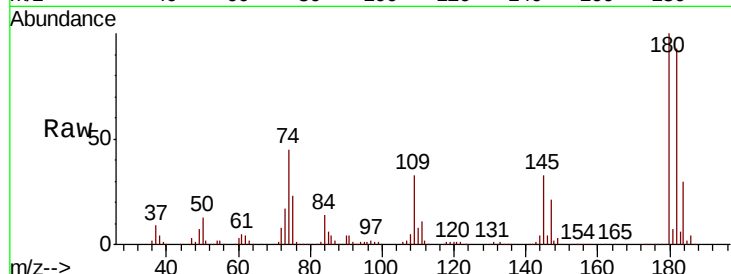
#81
 1,2,4-Trichlorobenzene
 Concen: 8.961 ppbv
 RT: 22.12 min Scan# 5967
 Delta R.T. -0.01 min
 Lab File: VL033767.D
 Acq: 23 May 2019 5:45

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.0	76.1	114.1
184	30.7	24.6	37.0

Manual Integrations
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Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

