

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032919\
 Data File : VL033529.D
 Acq On : 30 Mar 2019 8:53
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 4:03:36 AM

Quant Time: Mar 31 01:08:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 2
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	769424	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	1763144	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1786011m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1416679	10.12	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1666578	14.851	ppbv	100
3) Chlorodifluoromethane	3.01	51	1015332	11.462	ppbv	100
4) Chloromethane	3.17	50	546161	11.651	ppbv	99
5) Vinyl Chloride	3.29	62	558269	12.122	ppbv	100
6) Bromomethane	3.52	94	351176	11.865	ppbv	97
7) Chloroethane	3.60	64	200226	11.681	ppbv	98
8) Dichlorotetrafluoroethane	3.22	85	1433199	11.986	ppbv	100
9) Propene	3.04	41	414871	11.152	ppbv	98
10) Heptane	8.25	43	1103678	11.099	ppbv	100
11) Trichlorofluoromethane	4.00	101	1599985	11.569	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1067452	11.491	ppbv	100
13) Ethanol	3.65	45	107109	11.127	ppbv	63
14) Bromoethene	3.79	108	428161	11.557	ppbv	99
15) Acetone	3.90	43	999683	10.806	ppbv	100
16) 1,3-Butadiene	3.36	39	471876	12.859	ppbv	92
17) tert-Butyl alcohol	4.36	59	173048	10.173	ppbv	98
18) 1,1-Dichloroethene	4.35	96	468009	11.729	ppbv	97
19) Isopropyl Alcohol	4.02	45	608554	10.400	ppbv #	98
20) Methylene Chloride	4.41	84	411601	10.481	ppbv	100
21) Allyl Chloride	4.48	41	710652	12.151	ppbv	99
22) trans-1,2-Dichloroethene	4.97	96	501575	12.049	ppbv	96
23) Vinyl Acetate	5.16	43	1576119	11.969	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1124329	11.240	ppbv	99
25) Ethyl Acetate	5.77	43	1954630	11.387	ppbv	100
26) Hexane	5.78	57	866510	11.354	ppbv	99
27) Carbon Disulfide	4.62	76	1158396	12.764	ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	1311395	11.930	ppbv	100
29) Chloroform	5.85	83	1482842	11.334	ppbv	98
30) Cyclohexane	7.25	84	709739	11.755	ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	905841	11.938	ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	1490799	11.966	ppbv	99
34) 2-Butanone	5.33	43	1235483	11.663	ppbv	99
35) Carbon Tetrachloride	7.14	117	1588108	12.717	ppbv	97
36) Benzene	7.01	78	1727521	11.677	ppbv	99
37) 1,2-Dichloroethane	6.42	62	1147371	11.571	ppbv	99
38) Trichloroethene	7.96	130	707520	12.708	ppbv	99
39) 1,2-Dichloropropane	7.74	63	659614	11.382	ppbv	98
40) 1,4-Dioxane	7.96	88	229400	11.098	ppbv	86
41) Tetrahydrofuran	6.15	42	683791	11.736	ppbv	97
42) Bromodichloromethane	7.92	83	1611116	11.929	ppbv	99
43) Methyl Methacrylate	8.14	69	724147	12.055	ppbv	98

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Manual Integrations
 APPROVED

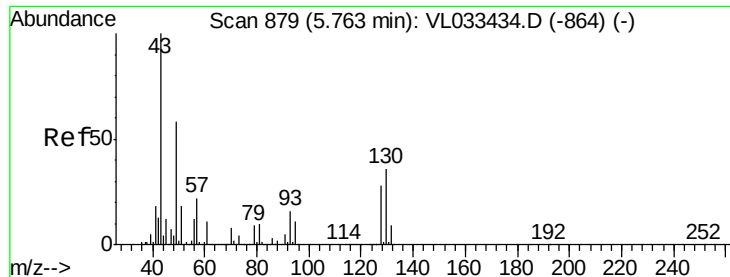
MMDadoda
 4/1/2019 4:03:36 AM

Quant Time: Mar 31 01:08:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 2
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.99	57	2975653	11.510	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	985742	13.365	ppbv	95
46) cis-1,3-Dichloropropene	8.84	75	1103107	12.808	ppbv	97
47) 1,1,2-Trichloroethane	9.62	97	741983	11.275	ppbv	97
48) Dibromochloromethane	10.46	129	1395390	12.571	ppbv	99
49) Bromoform	13.21	173	1292643	12.190	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	1823367	11.755	ppbv	99
51) 2-Hexanone	10.27	43	1454472	12.570	ppbv #	99
52) Tetrachloroethene	11.37	164	701246	12.563	ppbv	98
53) Toluene	9.95	91	2113430	12.294	ppbv	99
54) 1,2-Dibromoethane	10.77	107	1215376	11.808	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.28	131	994110	12.145	ppbv	98
57) Chlorobenzene	12.30	112	1641974	11.840	ppbv	97
58) Ethyl Benzene	12.87	91	3025629	12.686	ppbv	98
59) m/p-Xylene	13.16	91	5197347m	24.397	ppbv	
60) o-Xylene	13.85	91	2575222	12.501	ppbv	100
61) Styrene	13.69	104	1863078	13.177	ppbv	99
62) Isopropylbenzene	14.83	105	3562797	12.213	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	1794873	11.833	ppbv	100
64) n-propylbenzene	15.73	120	913873	12.346	ppbv	99
65) tert-Butylbenzene	16.91	119	3275437	12.742	ppbv	99
66) Benzyl Chloride	17.16	91	1864420	15.597	ppbv	100
67) sec-Butylbenzene	17.46	105	4649798	12.719	ppbv	100
69) p-Isopropyltoluene	17.82	119	3878483	13.030	ppbv	99
70) n-Butylbenzene	18.72	91	4099709	12.999	ppbv	100
71) 2-Chlorotoluene	15.62	91	2744381	12.372	ppbv	99
72) 4-Ethyltoluene	16.00	105	2978269	12.862	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	2883165	13.011	ppbv	99
74) 1,2,4-Trimethylbenzene	16.93	105	3028152	12.749	ppbv	96
75) 1,3-Dichlorobenzene	17.17	146	1781468	12.135	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	1769139	12.369	ppbv	99
77) 1,2-Dichlorobenzene	17.99	146	1750306	12.566	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	1316080	14.274	ppbv	99
79) Naphthalene	22.42	128	2901951	14.273	ppbv	100
80) Naphthalene, 2-methyl-	25.12	142	1220736	17.890	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	1496453	13.269	ppbv	99

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



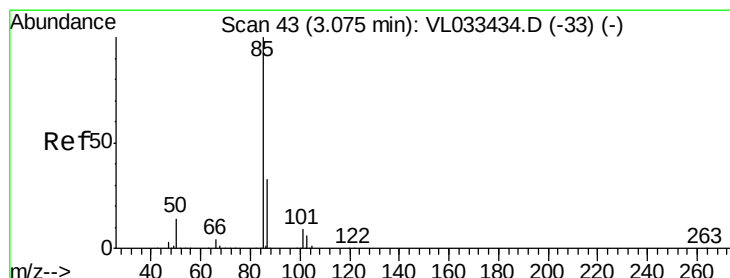
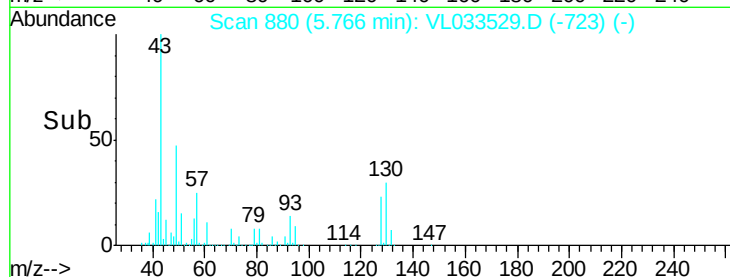
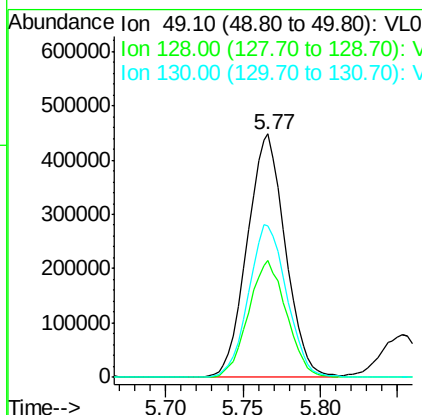
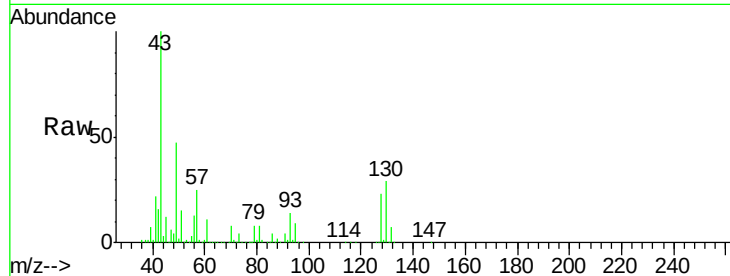
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.77 min Scan# 880
Delta R.T. 0.00 min
Lab File: VL033529.D
Acq: 30 Mar 2019 8:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
49	100		
128	48.2	24.0	72.0
130	63.2	31.2	93.6

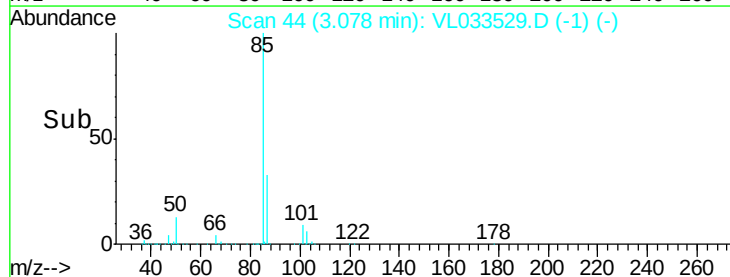
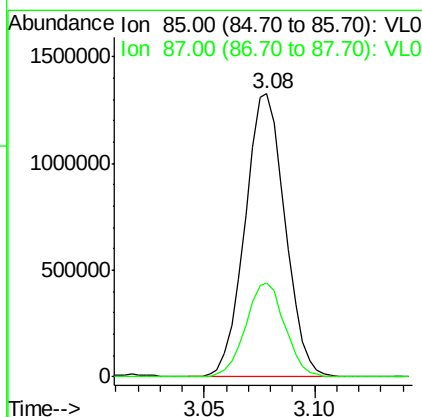
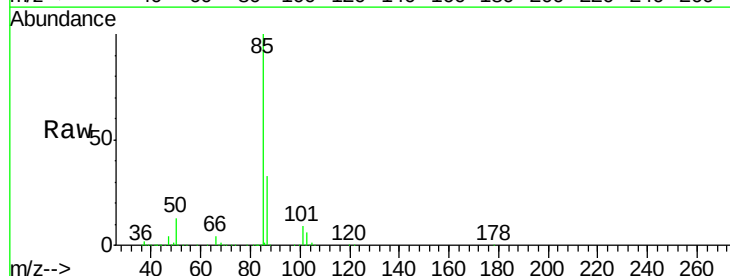
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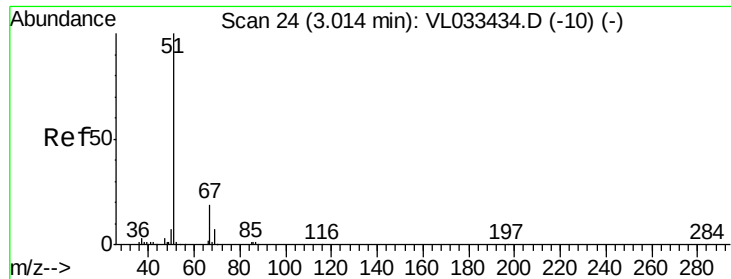
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#2
Dichlorodifluoromethane
Concen: 14.851 ppbv
RT: 3.08 min Scan# 44
Delta R.T. 0.00 min
Lab File: VL033529.D
Acq: 30 Mar 2019 8:53

Tgt Ion	Ratio	Lower	Upper
85	100		
87	33.2	26.7	40.1





#3

Chlorodifluoromethane

Concen: 11.462 ppbv

RT: 3.01 min Scan# 24

Delta R.T. 0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

Tot Ion: 51 Resp: 1015332

Ion Ratio Lower Upper

51 100

67 19.6 15.7 23.5

Instrument :

MSVOA_L

ClientSampleId :

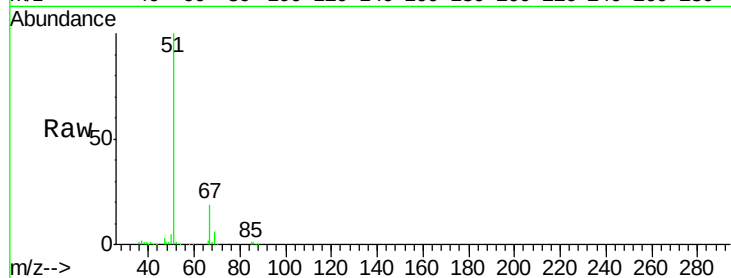
VSTDCCC010EC

Manual Integrations

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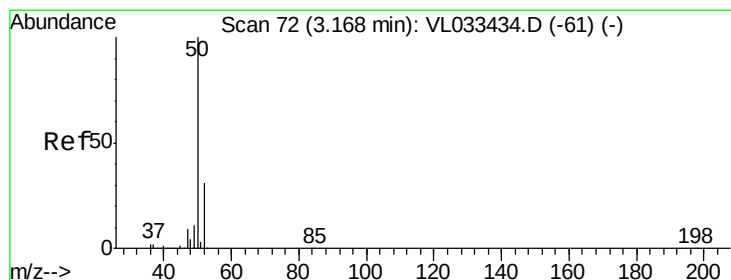
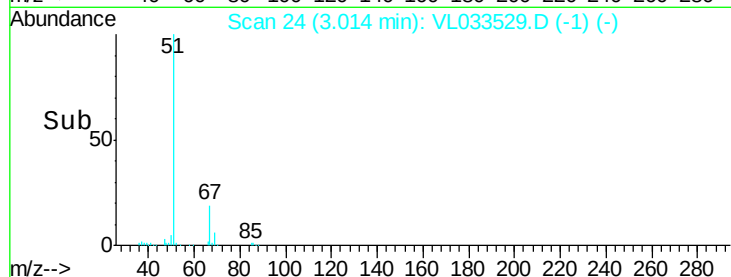
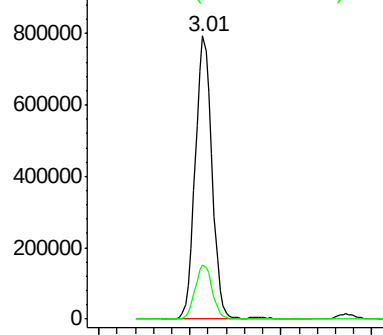
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 11.651 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033529.D

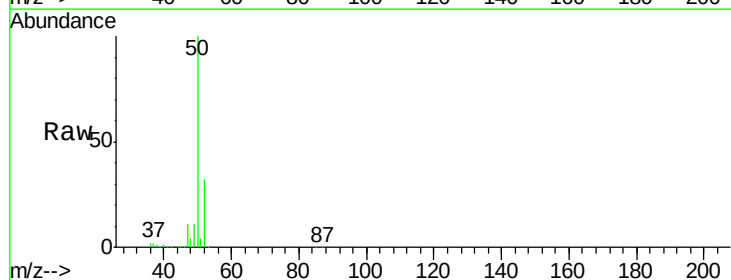
Acq: 30 Mar 2019 8:53

Tgt Ion: 50 Resp: 546161

Ion Ratio Lower Upper

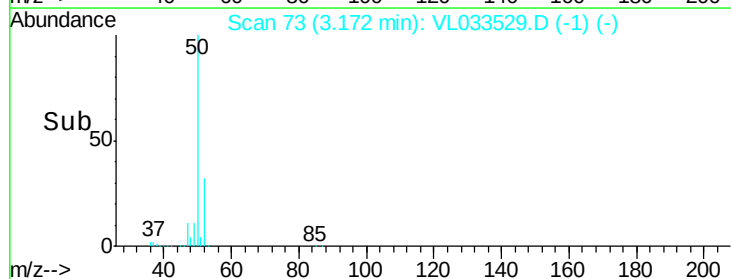
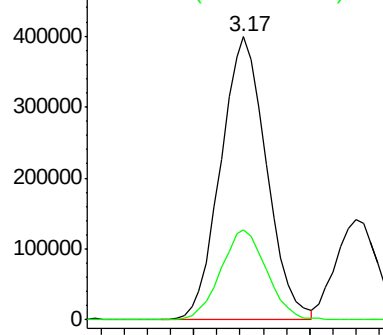
50 100

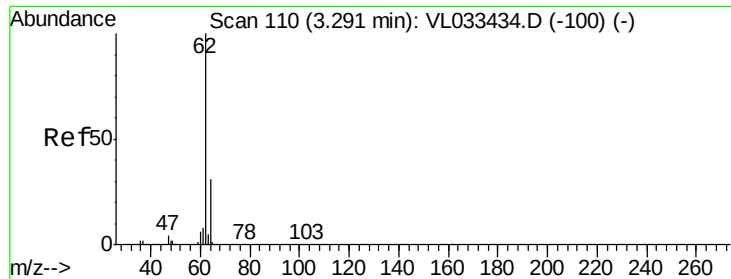
52 31.7 25.0 37.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 12.122 ppbv

RT: 3.29 min Scan# 110

Delta R.T. 0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 558269

Ion Ratio Lower Upper

62 100

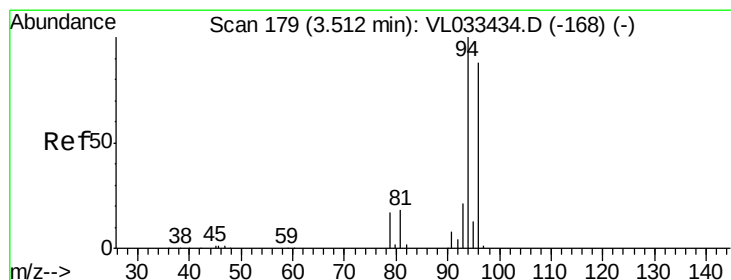
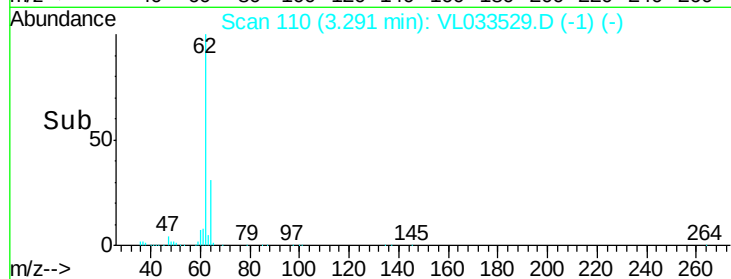
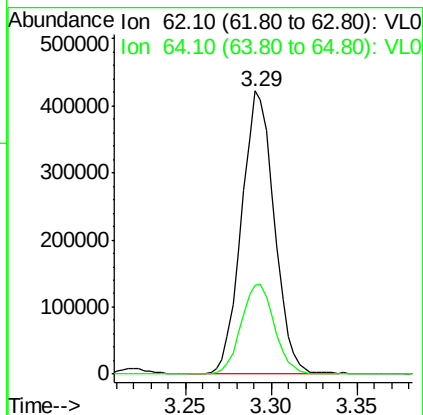
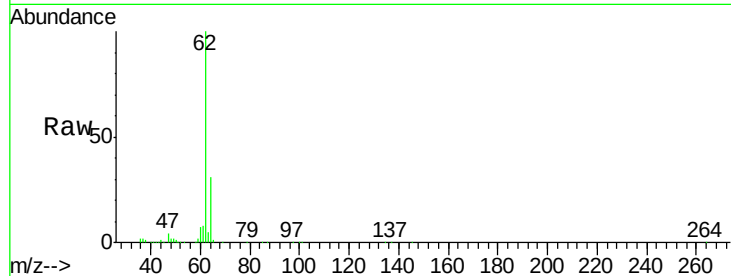
64 31.2 24.9 37.3

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#6

Bromomethane

Concen: 11.865 ppbv

RT: 3.52 min Scan# 180

Delta R.T. 0.00 min

Lab File: VL033529.D

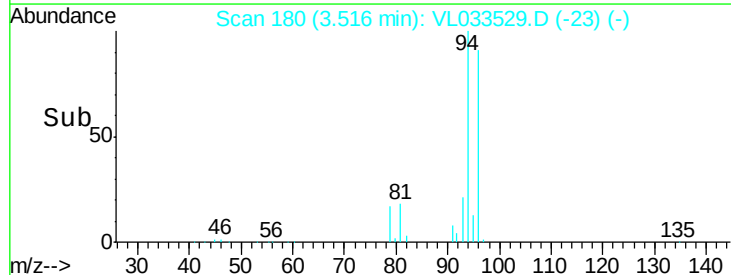
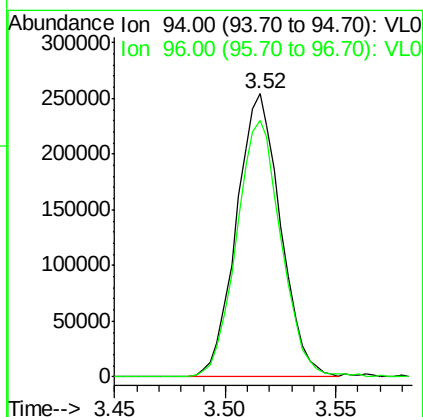
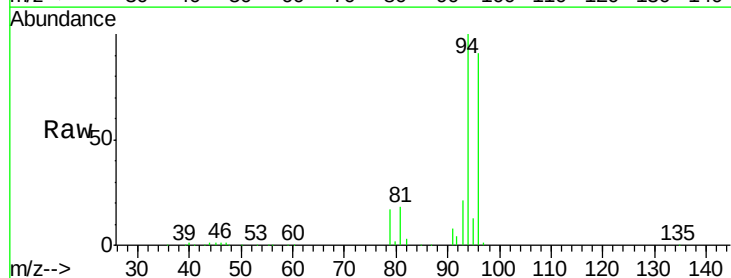
Acq: 30 Mar 2019 8:53

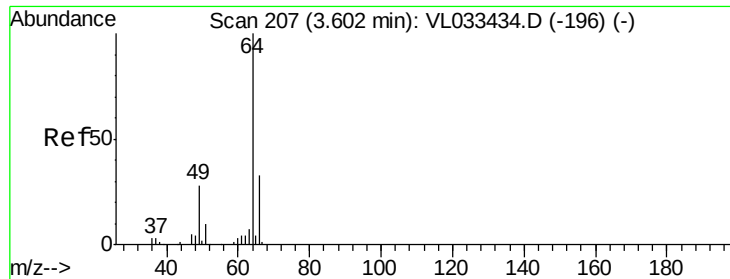
Tgt Ion: 94 Resp: 351176

Ion Ratio Lower Upper

94 100

96 90.5 70.2 105.2





#7

Chloroethane

Concen: 11.681 ppbv

RT: 3.60 min Scan# 207

Delta R.T. 0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 200226

Ion Ratio Lower Upper

64 100

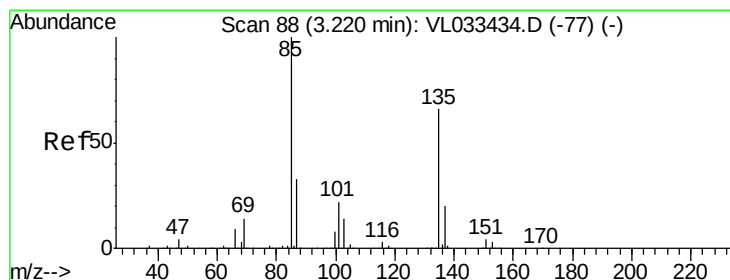
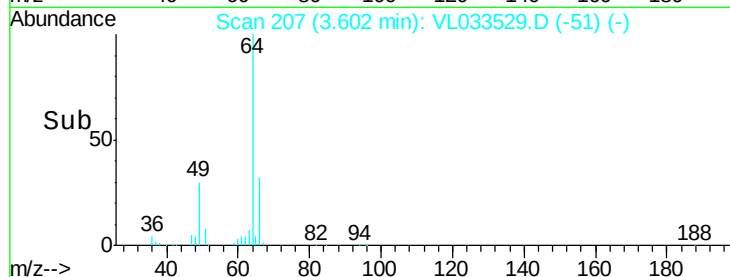
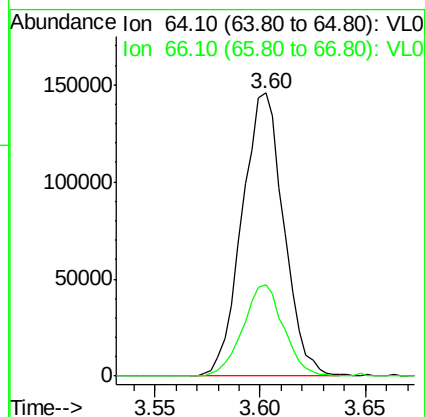
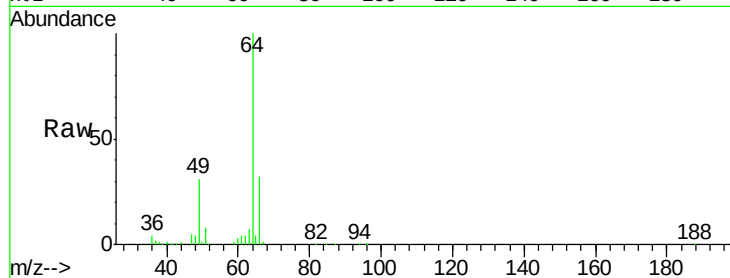
66 32.4 26.7 40.1

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 11.986 ppbv

RT: 3.22 min Scan# 88

Delta R.T. 0.00 min

Lab File: VL033529.D

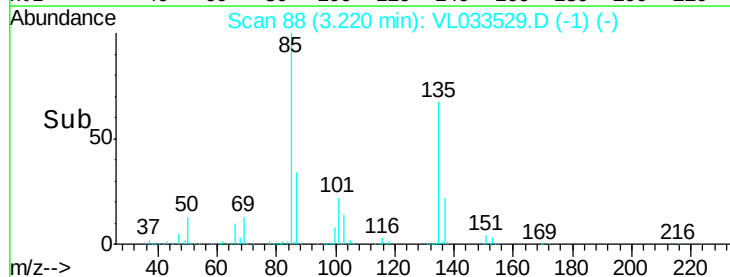
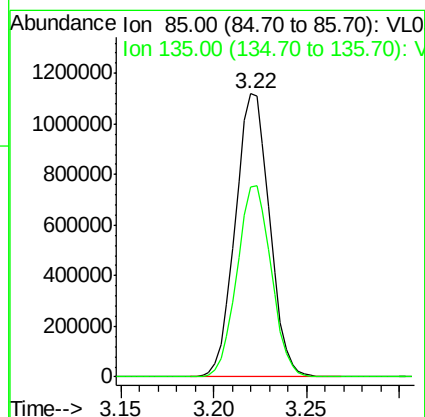
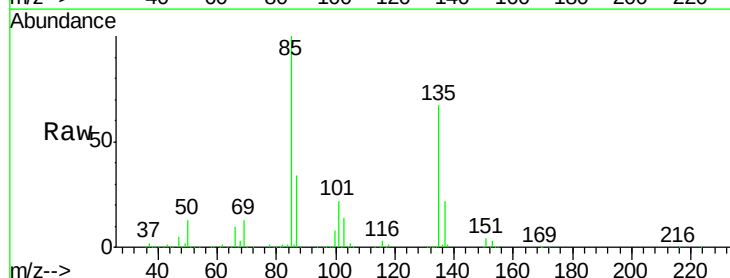
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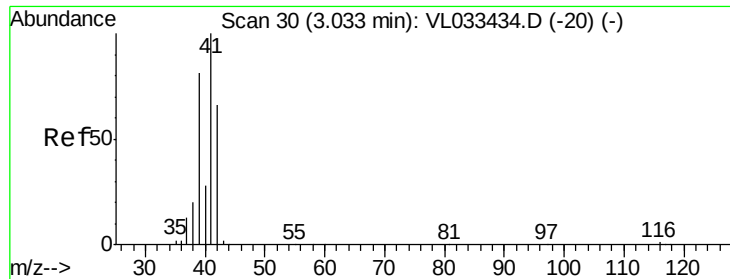
Tgt Ion: 85 Resp: 1433199

Ion Ratio Lower Upper

85 100

135 67.7 54.0 81.0





#9

Propene

Concen: 11.152 ppbv

RT: 3.04 min Scan# 31

Delta R.T. 0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 414871

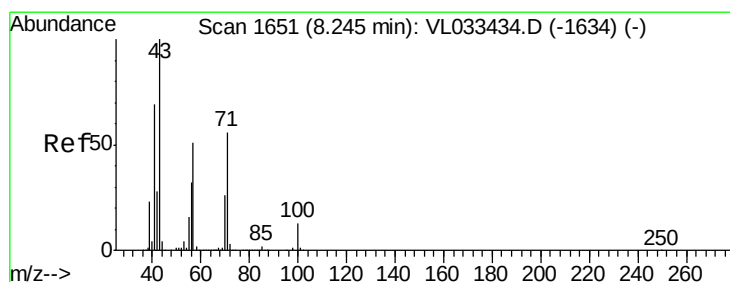
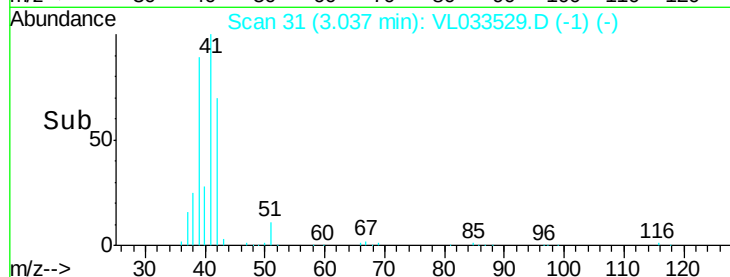
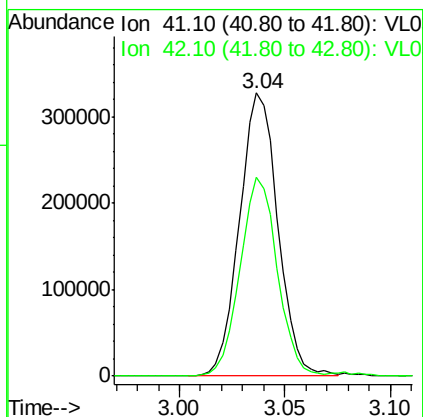
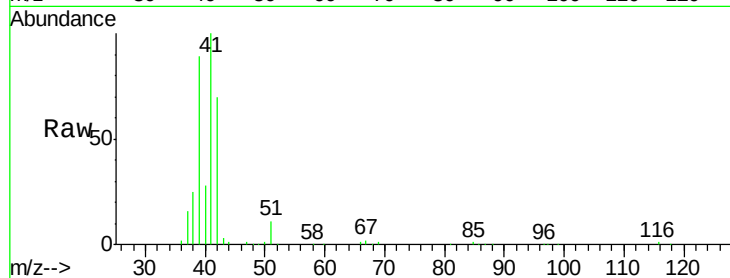
Ion Ratio Lower Upper

41 100

42 69.2 53.9 80.9

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#10

Heptane

Concen: 11.099 ppbv

RT: 8.25 min Scan# 1652

Delta R.T. 0.00 min

Lab File: VL033529.D

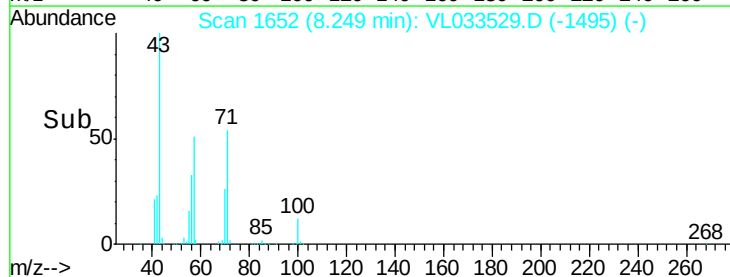
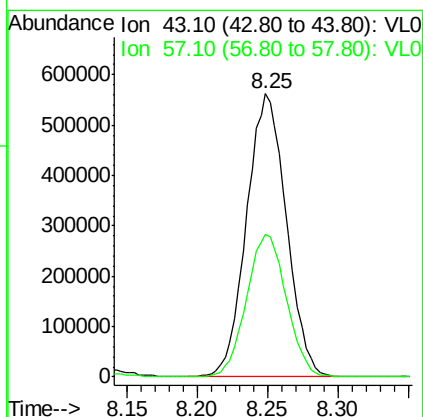
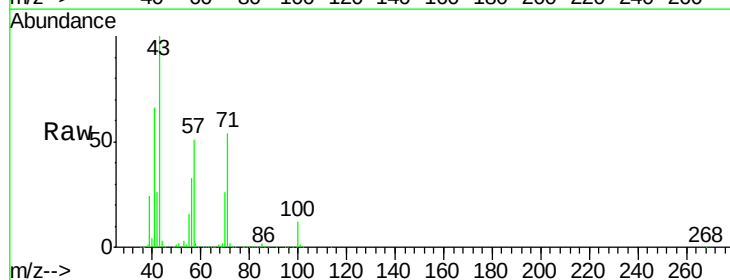
Acq: 30 Mar 2019 8:53

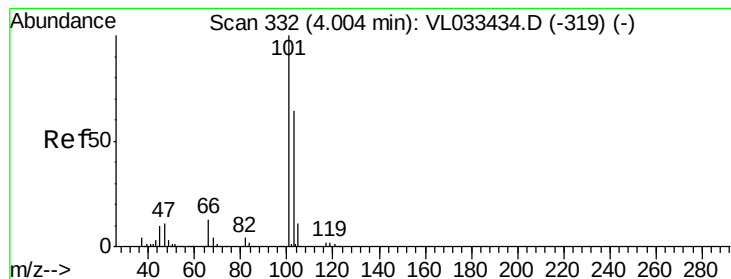
Tgt Ion: 43 Resp: 1103678

Ion Ratio Lower Upper

43 100

57 50.6 40.6 60.8





#11

Trichlorofluoromethane

Concen: 11.569 ppbv

RT: 4.00 min Scan# 332

Delta R.T. 0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:101 Resp: 1599985

Ion Ratio Lower Upper

101 100

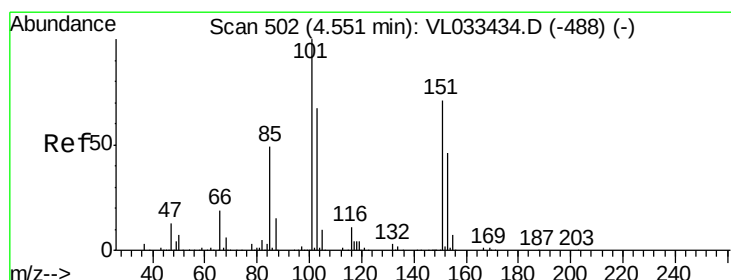
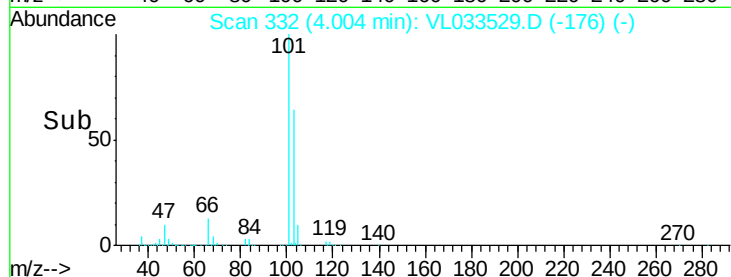
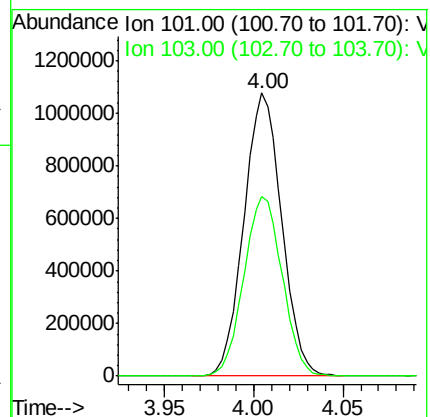
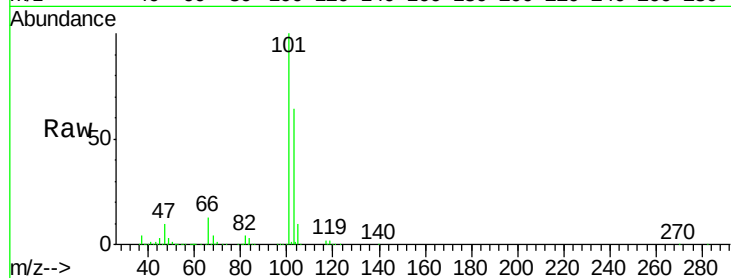
103 63.6 51.3 76.9

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#12

1,1,2-Trichlorotrifluoroethane

Concen: 11.491 ppbv

RT: 4.55 min Scan# 503

Delta R.T. 0.00 min

Lab File: VL033529.D

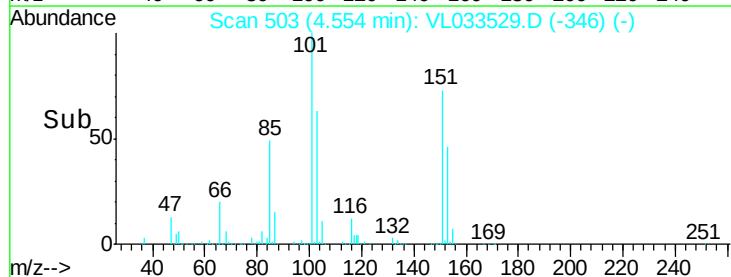
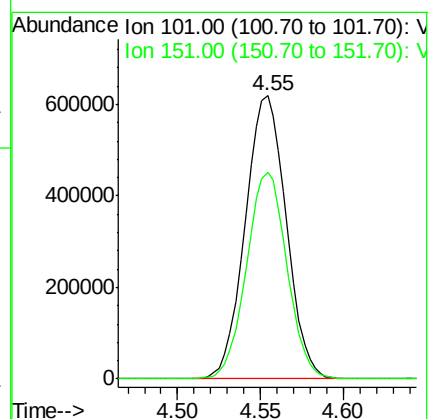
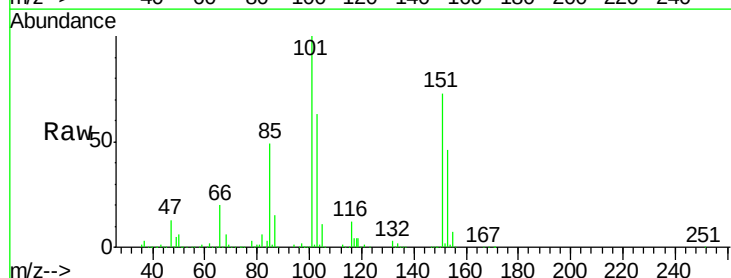
Acq: 30 Mar 2019 8:53

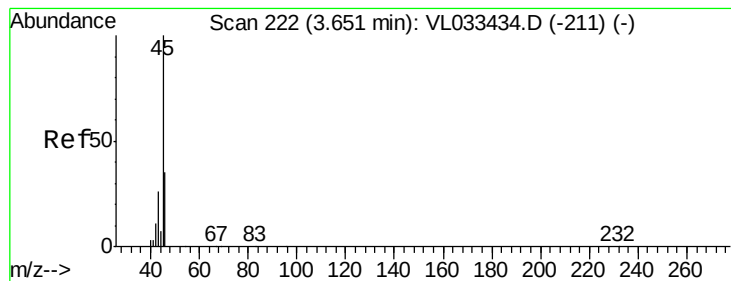
Tgt Ion:101 Resp: 1067452

Ion Ratio Lower Upper

101 100

151 72.0 57.7 86.5





#13

Ethanol

Concen: 11.127 ppbv

RT: 3.65 min Scan# 222

Delta R.T. 0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 45 Resp: 107109

Ion Ratio Lower Upper

45 100

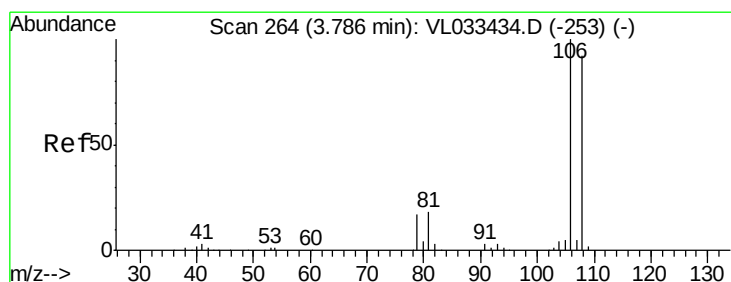
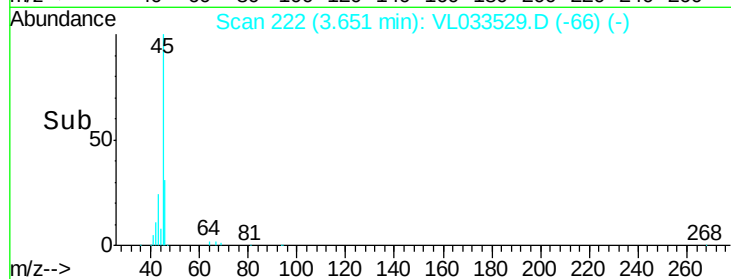
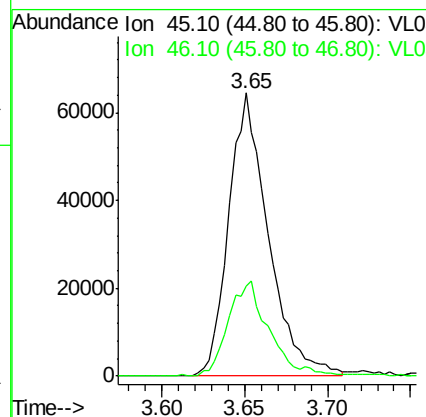
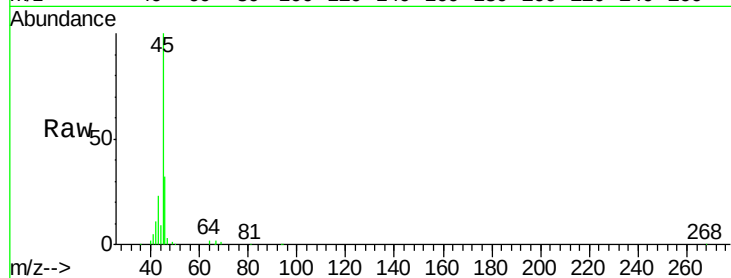
46 35.0 25.4 101.8

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#14

Bromoethene

Concen: 11.557 ppbv

RT: 3.79 min Scan# 265

Delta R.T. 0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

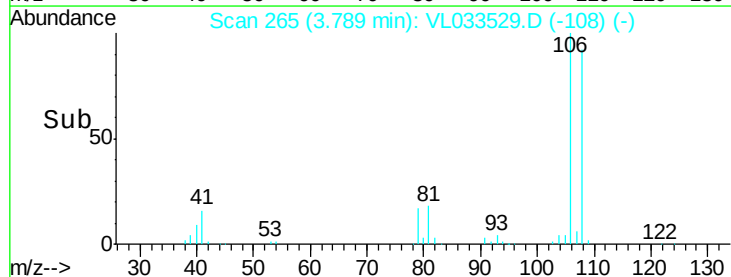
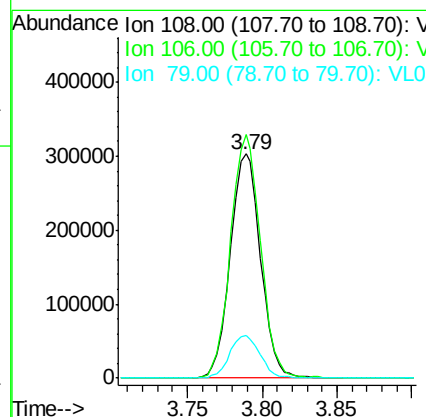
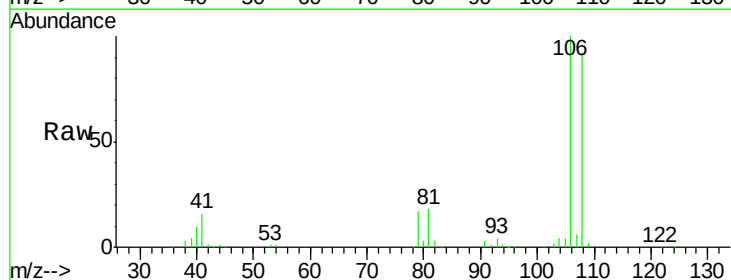
Tgt Ion: 108 Resp: 428161

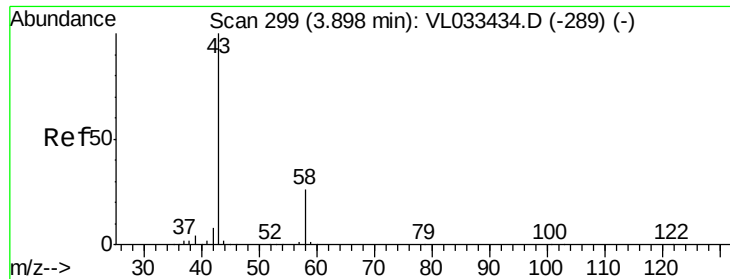
Ion Ratio Lower Upper

108 100

106 107.2 86.4 129.6

79 19.2 15.8 23.8





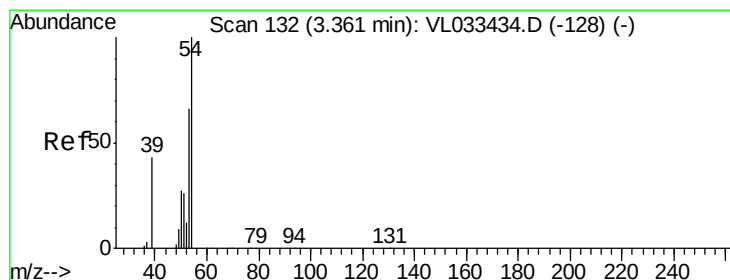
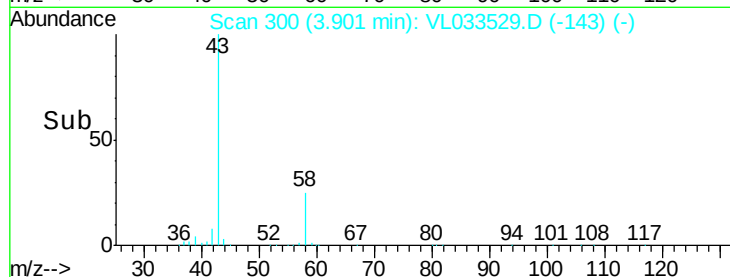
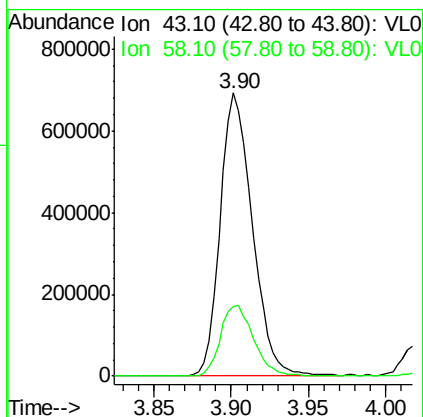
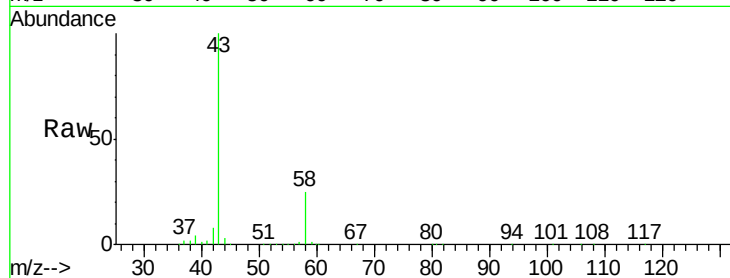
#15
Acetone
Concen: 10.806 ppbv
RT: 3.90 min Scan# 300
Delta R.T. 0.00 min
Lab File: VL033529.D
Acq: 30 Mar 2019 8:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 43 Resp: 999683
Ion Ratio Lower Upper
43 100
58 25.8 20.5 30.7

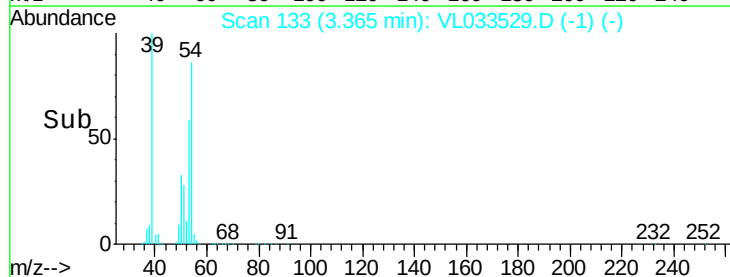
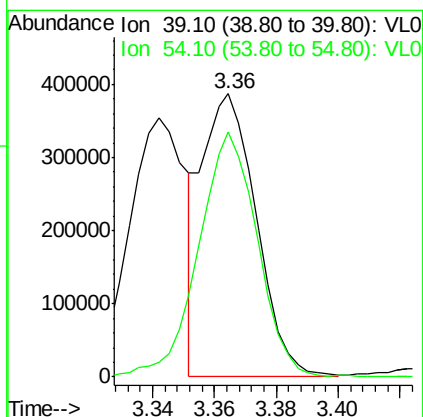
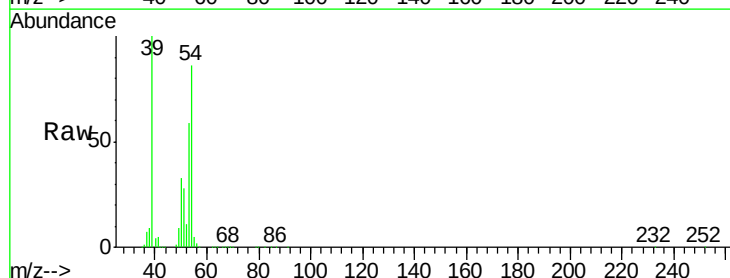
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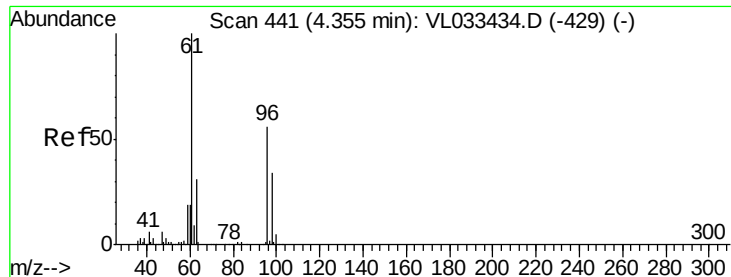
MMDadoda
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#16
1,3-Butadiene
Concen: 12.859 ppbv
RT: 3.36 min Scan# 133
Delta R.T. 0.00 min
Lab File: VL033529.D
Acq: 30 Mar 2019 8:53

Tgt Ion: 39 Resp: 471876
Ion Ratio Lower Upper
39 100
54 94.3 69.4 104.2





#17

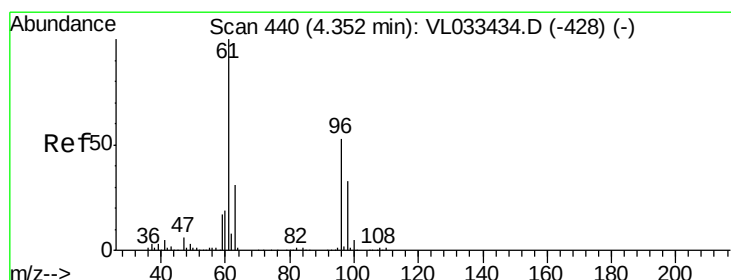
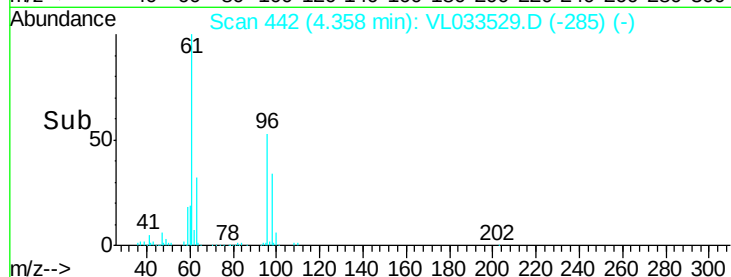
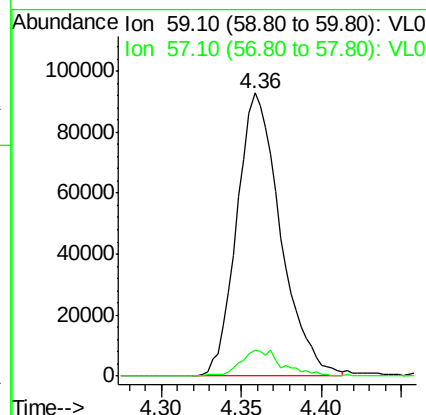
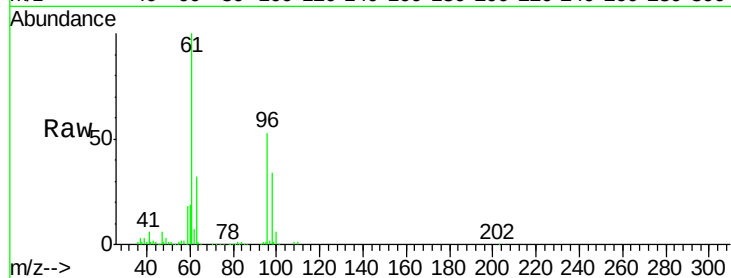
tert-Butyl alcohol
Concen: 10.173 ppbv
RT: 4.36 min Scan# 442
Delta R.T. 0.00 min
Lab File: VL033529.D
Acq: 30 Mar 2019 8:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 59 Resp: 173048
Ion Ratio Lower Upper
59 100
57 8.9 7.8 11.8

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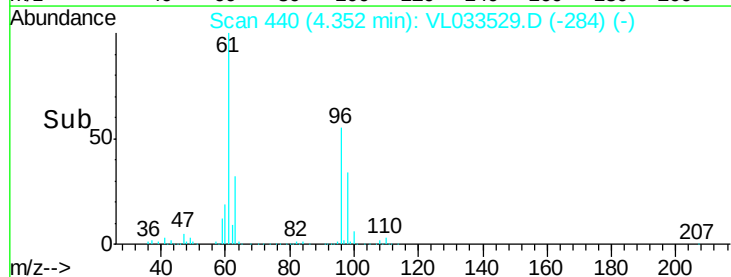
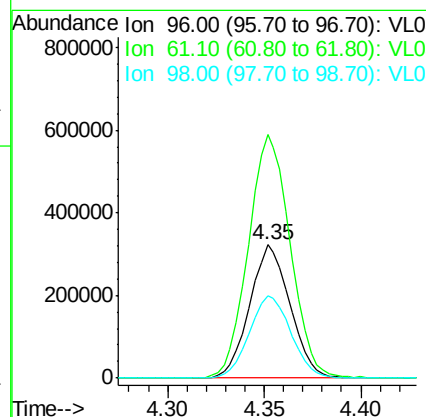
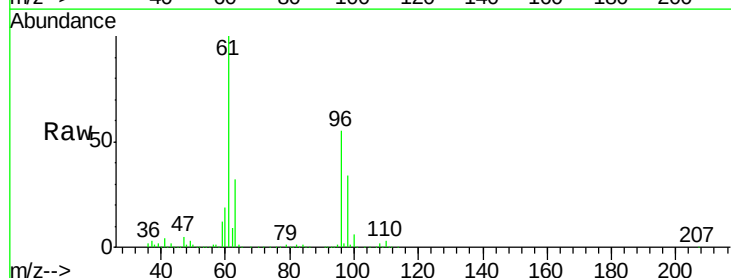
MMDadoda
4/1/2019 4:03:36 AM

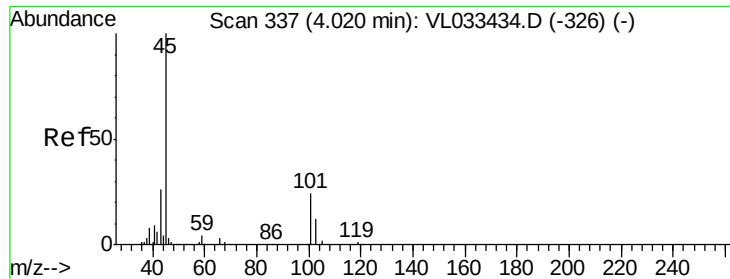


#18

1,1-Dichloroethene
Concen: 11.729 ppbv
RT: 4.35 min Scan# 440
Delta R.T. 0.00 min
Lab File: VL033529.D
Acq: 30 Mar 2019 8:53

Tgt Ion: 96 Resp: 468009
Ion Ratio Lower Upper
96 100
61 182.4 149.8 224.6
98 61.9 48.7 73.1





#19

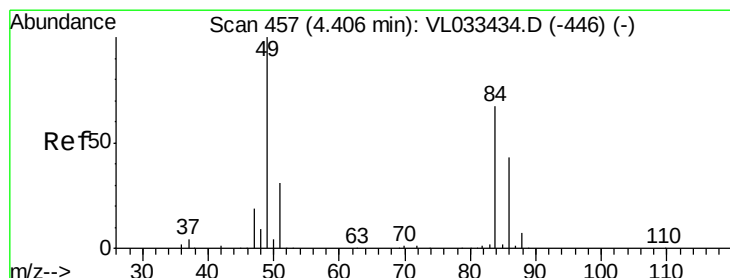
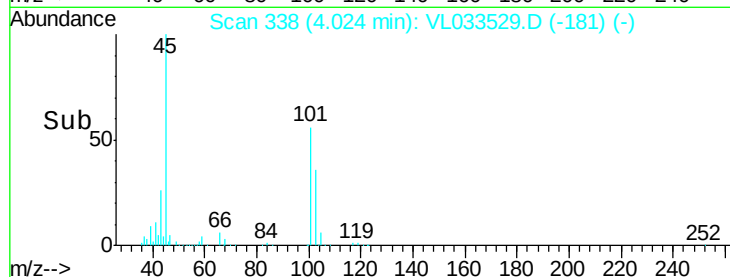
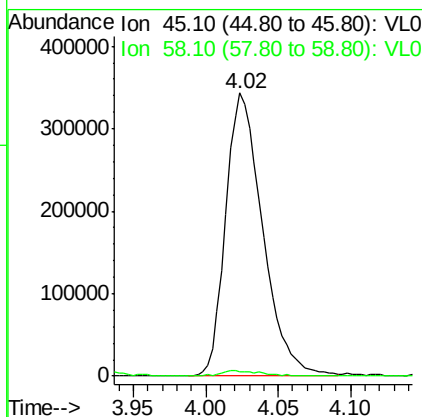
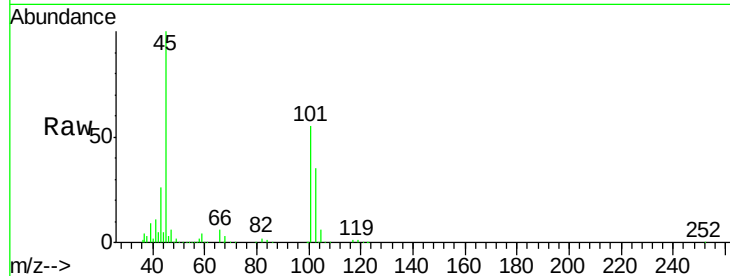
Isopropyl Alcohol
 Concen: 10.400 ppbv
 RT: 4.02 min Scan# 338
 Delta R.T. 0.00 min
 Lab File: VL033529.D
 Acq: 30 Mar 2019 8:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 45 Resp: 608554
 Ion Ratio Lower Upper
 45 100
 58 2.5 1.4 2.2#

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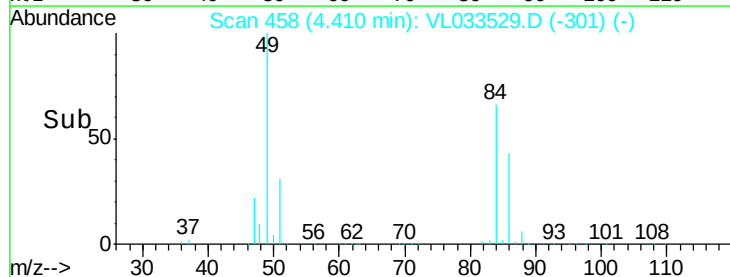
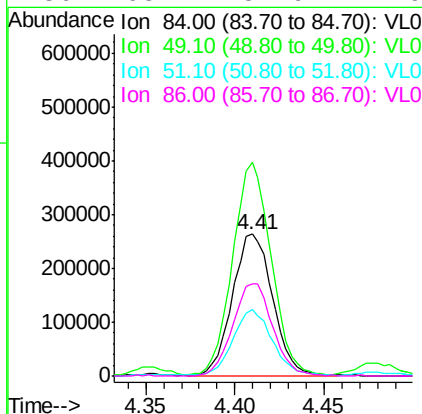
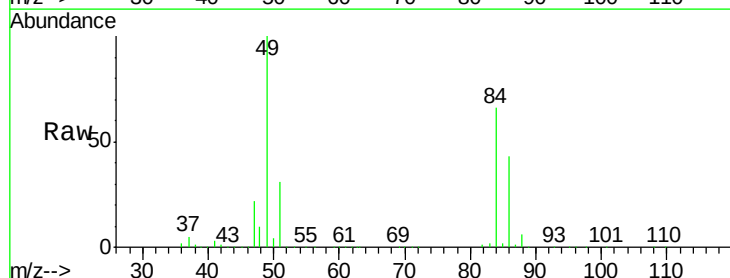
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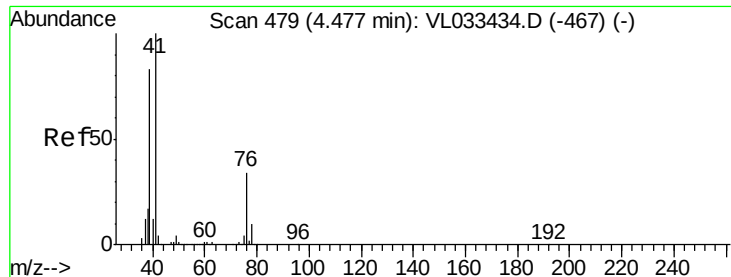


#20

Methylene Chloride
 Concen: 10.481 ppbv
 RT: 4.41 min Scan# 458
 Delta R.T. 0.00 min
 Lab File: VL033529.D
 Acq: 30 Mar 2019 8:53

Tgt Ion: 84 Resp: 411601
 Ion Ratio Lower Upper
 84 100
 49 150.5 120.0 180.0
 51 46.4 36.7 55.1
 86 65.2 51.9 77.9





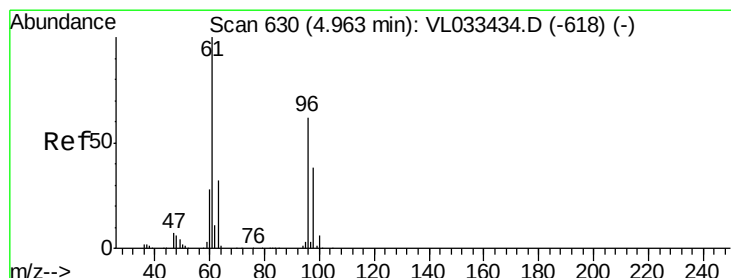
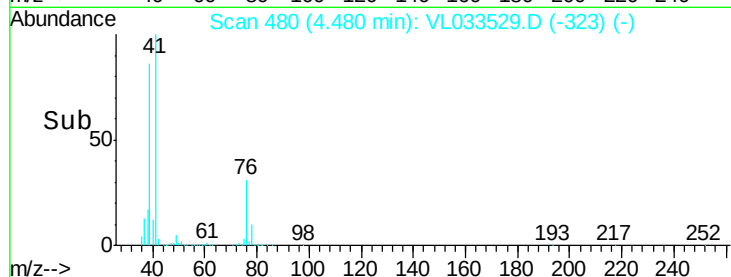
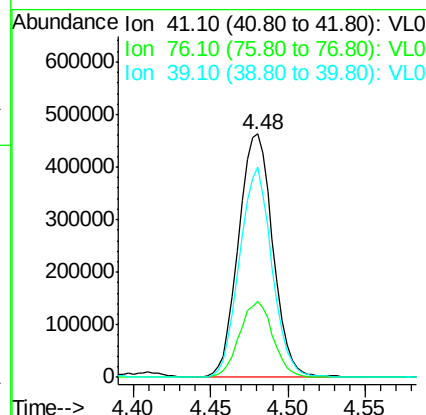
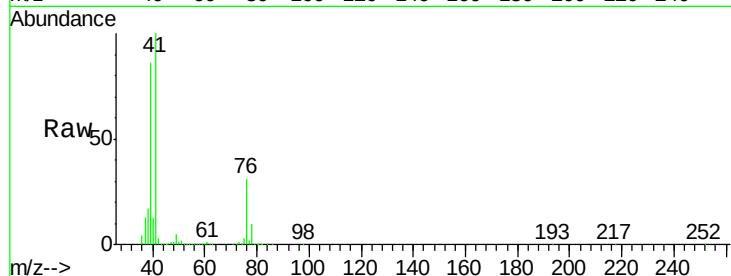
#21
Allvl Chloride
Concen: 12.151 ppbv
RT: 4.48 min Scan# 480
Delta R.T. 0.00 min
Lab File: VL033529.D
Acq: 30 Mar 2019 8:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
41	100		
76	30.5	25.4	38.2
39	81.8	65.3	97.9

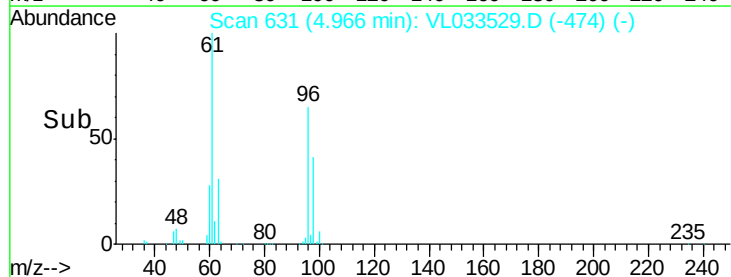
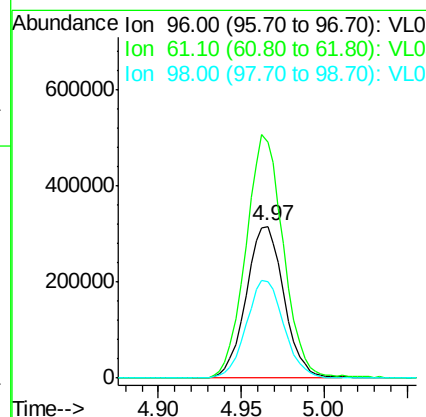
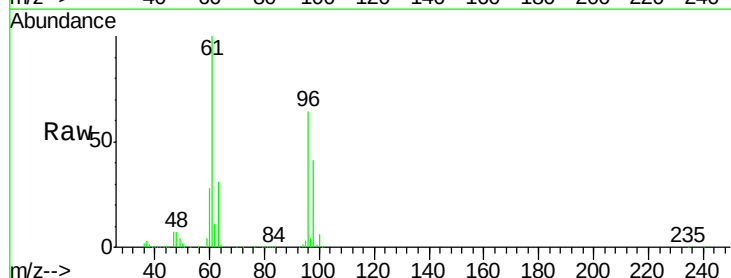
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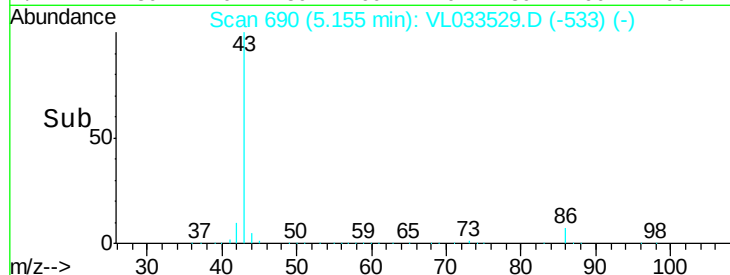
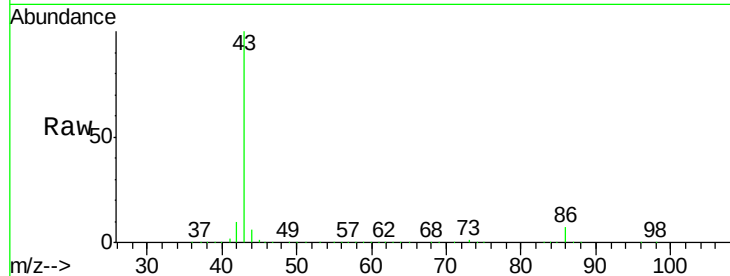
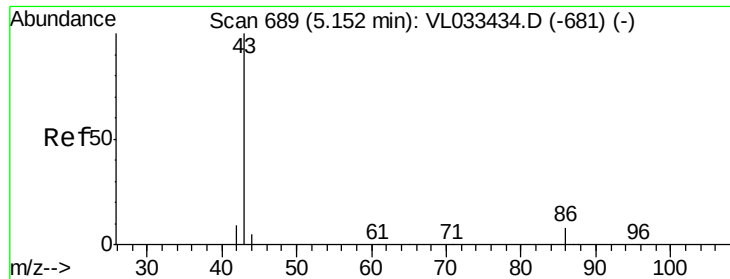
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#22
trans-1,2-Dichloroethene
Concen: 12.049 ppbv
RT: 4.97 min Scan# 631
Delta R.T. 0.00 min
Lab File: VL033529.D
Acq: 30 Mar 2019 8:53

Tgt Ion	Ratio	Lower	Upper
96	100		
61	155.4	128.9	193.3
98	63.9	49.5	74.3





#23

Vinyl Acetate

Concen: 11.969 ppbv

RT: 5.16 min Scan# 690

Delta R.T. 0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

Tot Ion: 43 Resp: 1576119

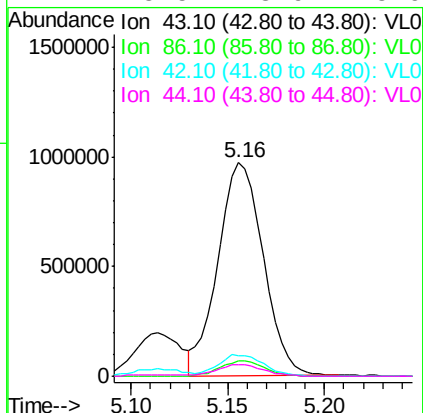
Ion Ratio Lower Upper

43 100

86 7.5 5.6 8.4

42 9.8 8.0 12.0

44 5.5 3.9 5.9



Instrument :

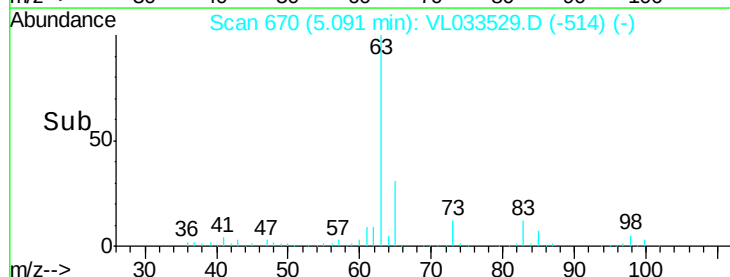
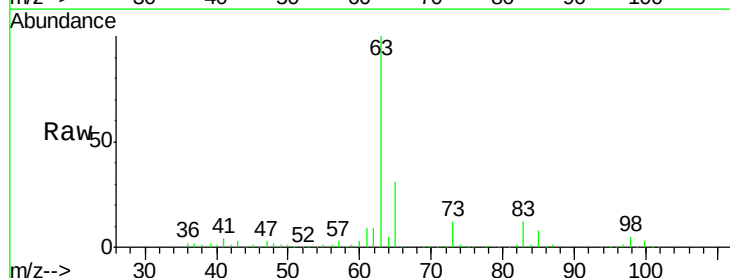
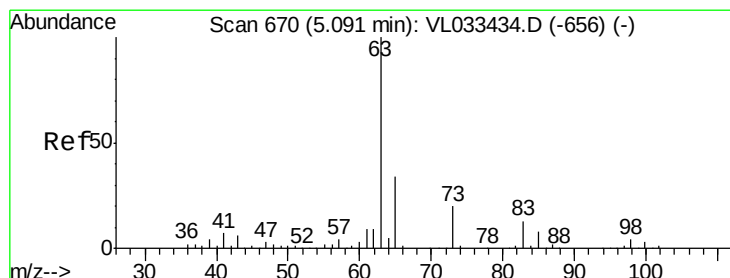
MSVOA_L

ClientSampleId :

VSTDCCC010EC

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#24

1,1-Dichloroethane

Concen: 11.240 ppbv

RT: 5.09 min Scan# 670

Delta R.T. 0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

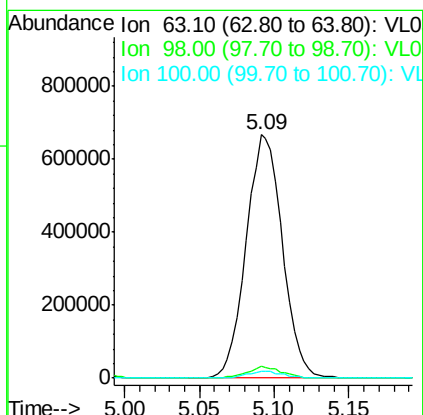
Tgt Ion: 63 Resp: 1124329

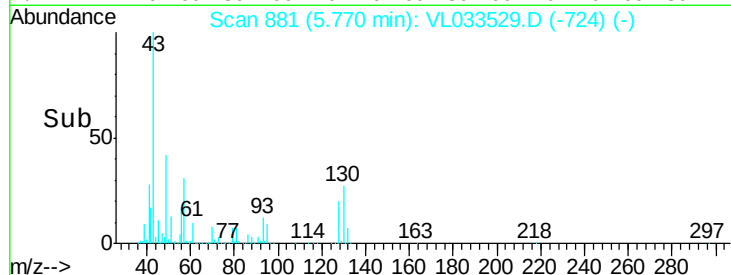
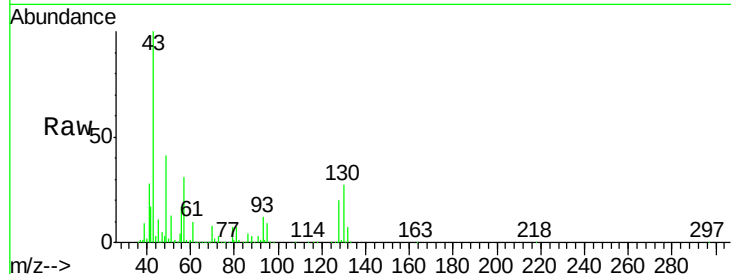
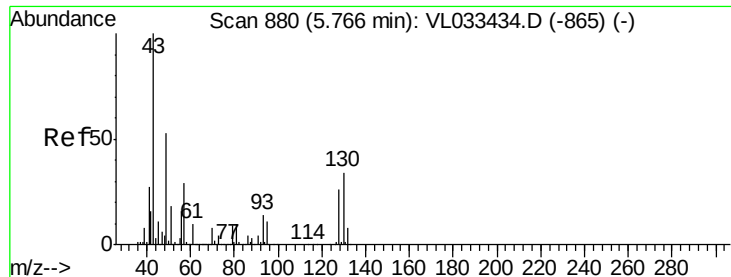
Ion Ratio Lower Upper

63 100

98 4.8 2.2 6.6

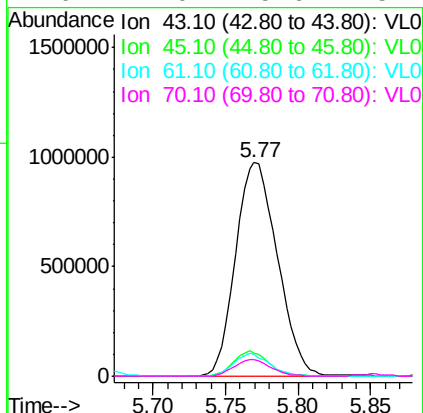
100 2.9 1.5 4.4





#25
Ethyl Acetate
Concen: 11.387 ppbv
RT: 5.77 min Scan# 881
Delta R.T. 0.00 min
Lab File: VL033529.D
Acq: 30 Mar 2019 8:53

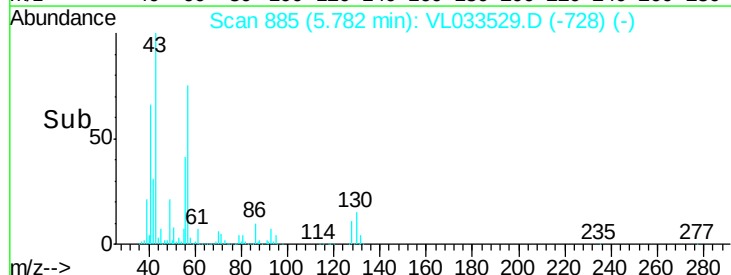
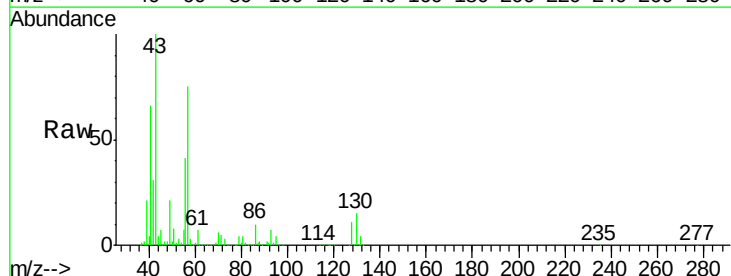
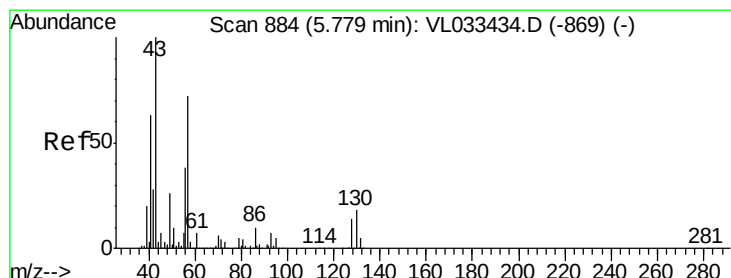
Tot Ion	43	Resp	1954630
Ion	Ratio	Lower	Upper
43	100		
45	9.9	7.8	11.6
61	9.3	7.3	10.9
70	7.0	5.6	8.4



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

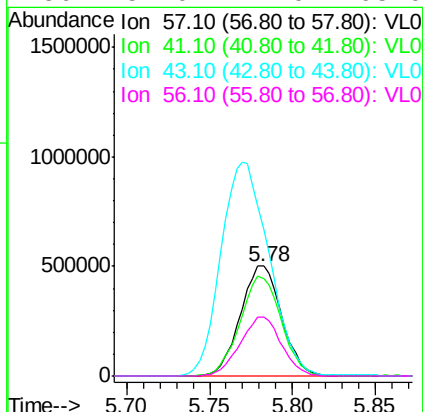
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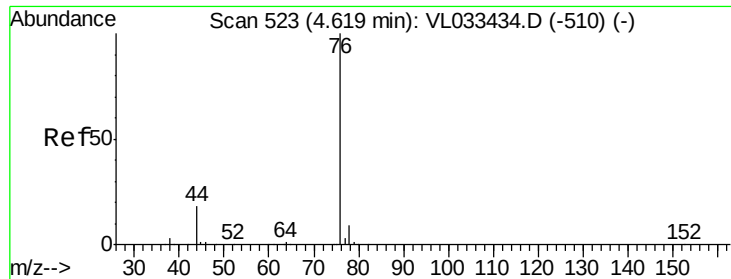
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#26
Hexane
Concen: 11.354 ppbv
RT: 5.78 min Scan# 885
Delta R.T. 0.00 min
Lab File: VL033529.D
Acq: 30 Mar 2019 8:53

Tgt Ion	57	Resp	866510
Ion	Ratio	Lower	Upper
57	100		
41	91.0	70.7	106.1
43	227.4	182.6	274.0
56	54.0	42.0	63.0





#27

Carbon Disulfide

Concen: 12.764 ppbv

RT: 4.62 min Scan# 524

Delta R.T. 0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 76 Resp: 1158396

Ion Ratio Lower Upper

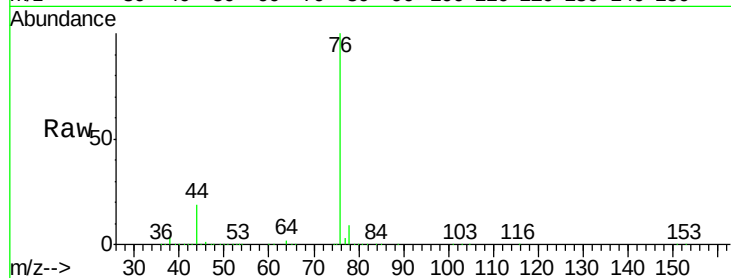
76 100

44 18.3 14.8 22.2

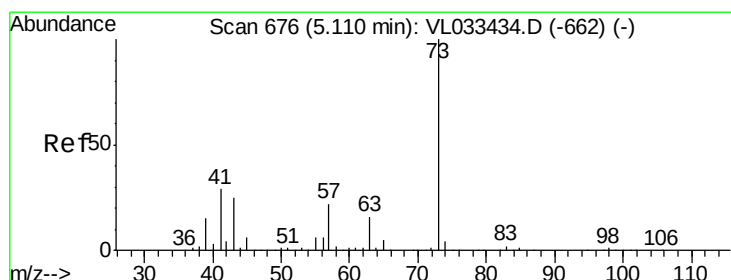
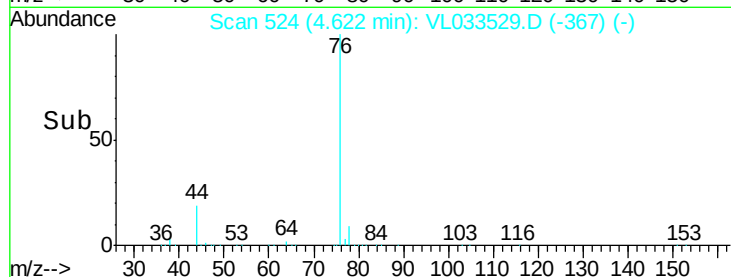
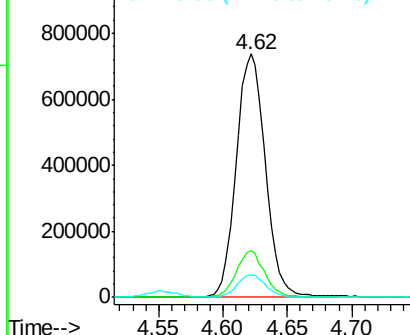
78 9.0 7.6 11.4

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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: 11.930 ppbv

RT: 5.11 min Scan# 677

Delta R.T. 0.00 min

Lab File: VL033529.D

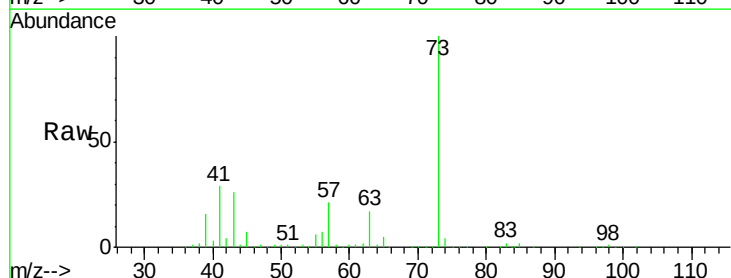
Acq: 30 Mar 2019 8:53

Tgt Ion: 73 Resp: 1311395

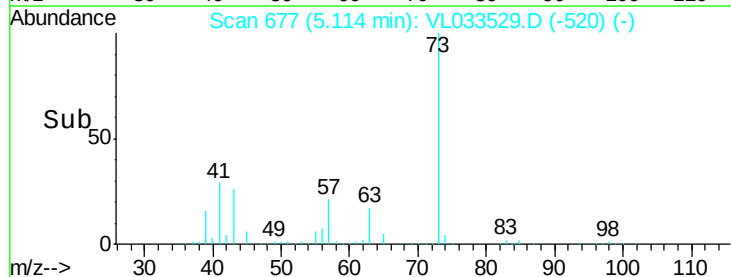
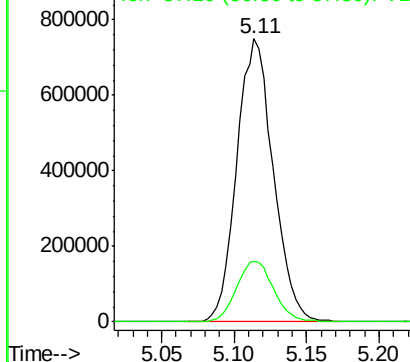
Ion Ratio Lower Upper

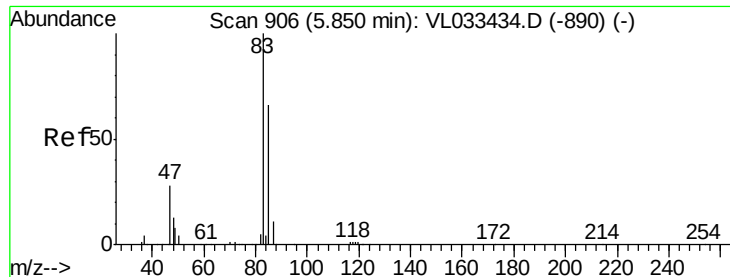
73 100

57 22.0 17.4 26.2



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





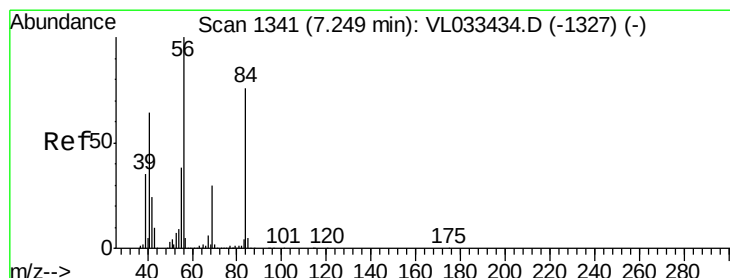
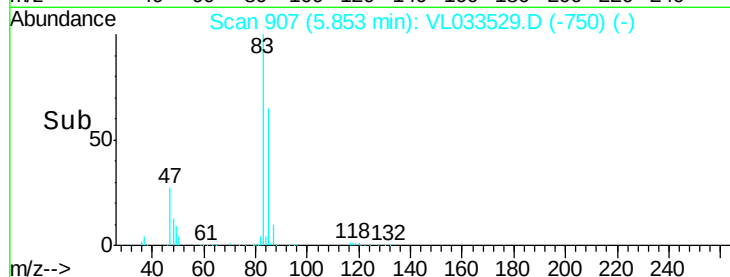
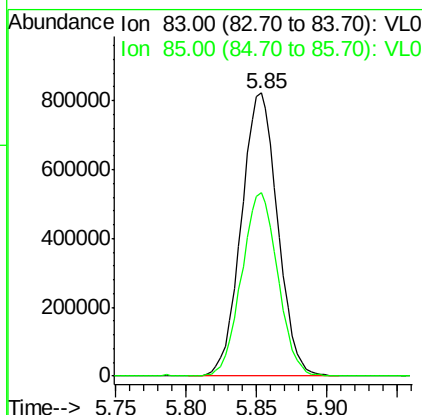
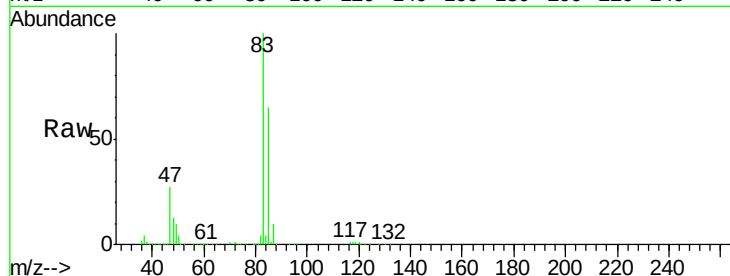
#29
Chloroform
Concen: 11.334 ppbv
RT: 5.85 min Scan# 907
Delta R.T. 0.00 min
Lab File: VL033529.D
Acq: 30 Mar 2019 8:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 83 Resp: 1482842
Ion Ratio Lower Upper
83 100
85 64.6 52.6 79.0

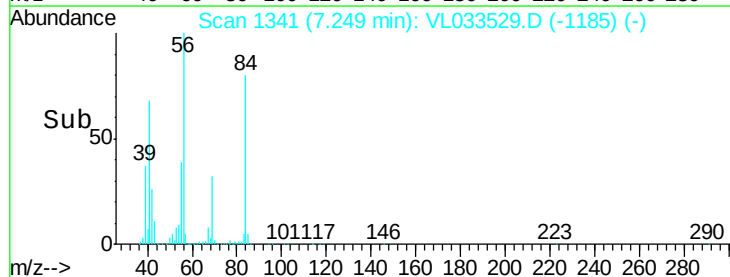
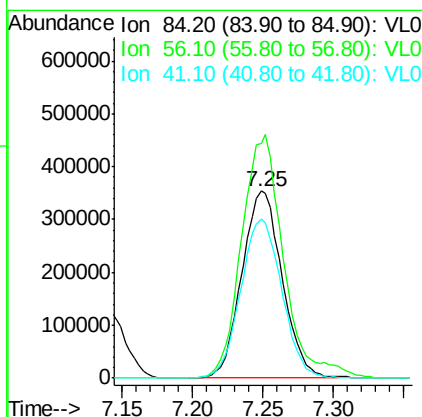
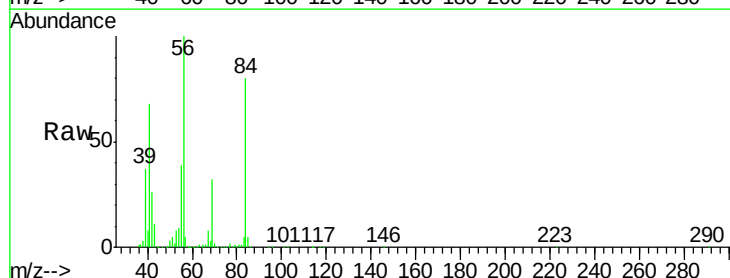
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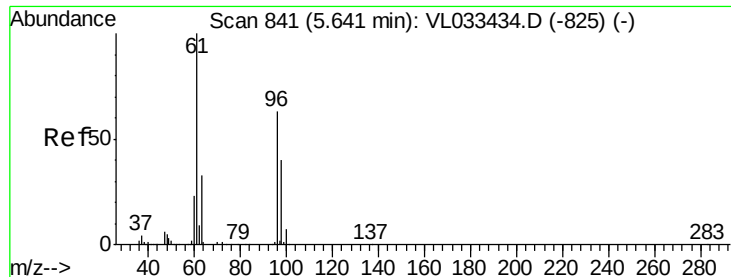
MMDadoda
4/1/2019 4:03:36 AM



#30
Cyclohexane
Concen: 11.755 ppbv
RT: 7.25 min Scan# 1341
Delta R.T. 0.00 min
Lab File: VL033529.D
Acq: 30 Mar 2019 8:53

Tgt Ion: 84 Resp: 709739
Ion Ratio Lower Upper
84 100
56 135.7 109.7 164.5
41 86.6 68.2 102.2





#31

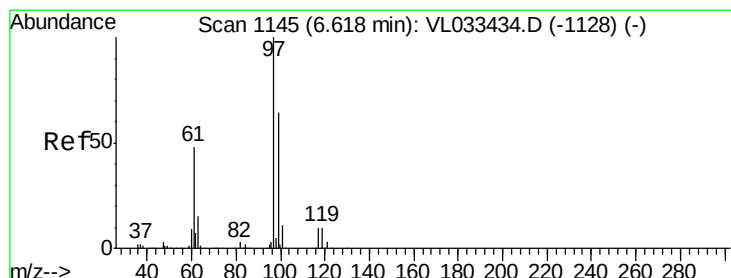
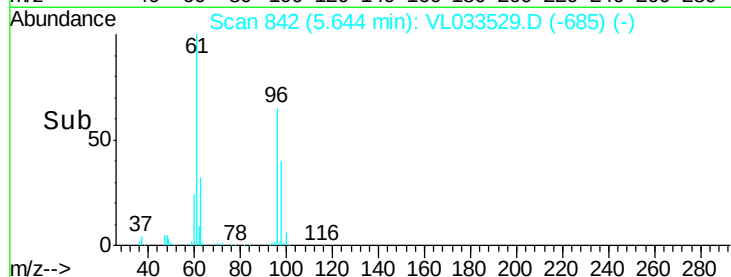
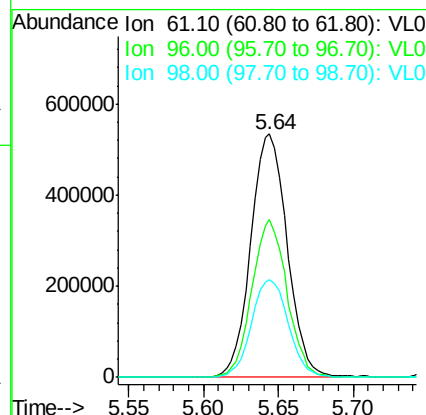
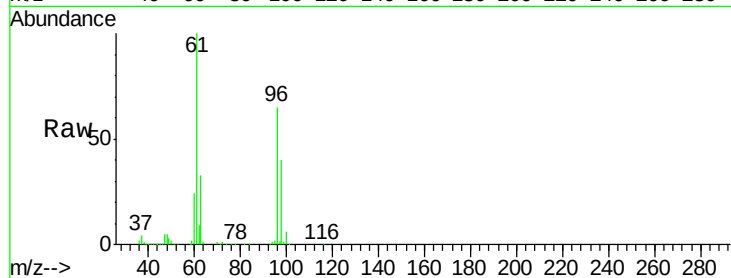
cis-1,2-Dichloroethene
 Concen: 11.938 ppbv
 RT: 5.64 min Scan# 842
 Delta R.T. 0.00 min
 Lab File: VL033529.D
 Acq: 30 Mar 2019 8:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
61	100		
96	64.6	50.6	76.0
98	40.3	32.2	48.2

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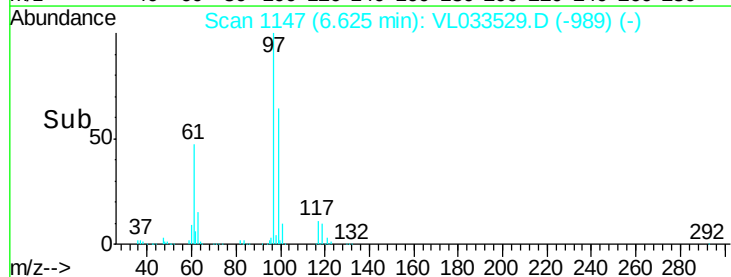
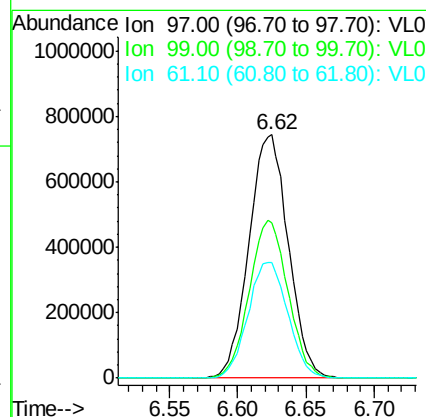
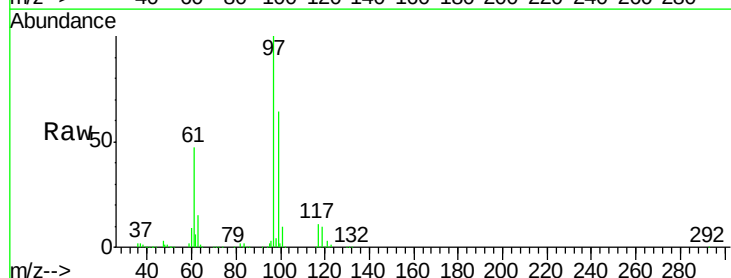
MMDadoda
 4/1/2019 4:03:36 AM

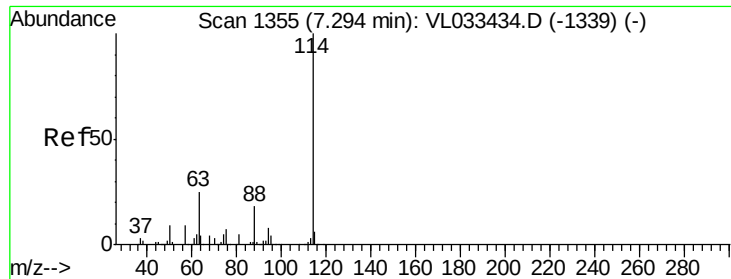


#32

1,1,1-Trichloroethane
 Concen: 11.966 ppbv
 RT: 6.62 min Scan# 1147
 Delta R.T. 0.01 min
 Lab File: VL033529.D
 Acq: 30 Mar 2019 8:53

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.8	51.5	77.3
61	48.2	38.8	58.2





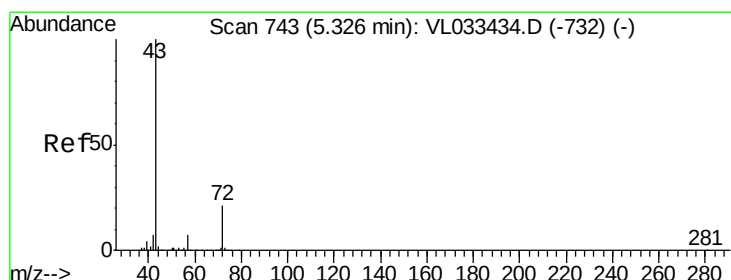
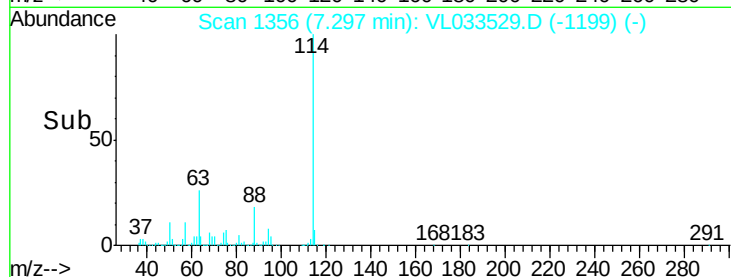
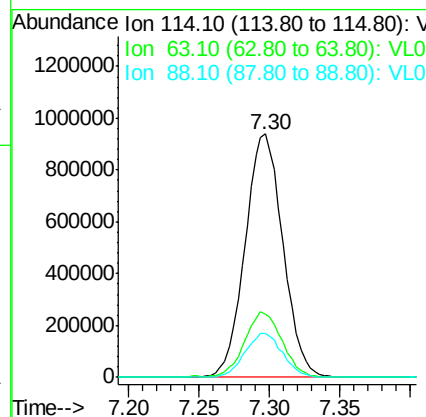
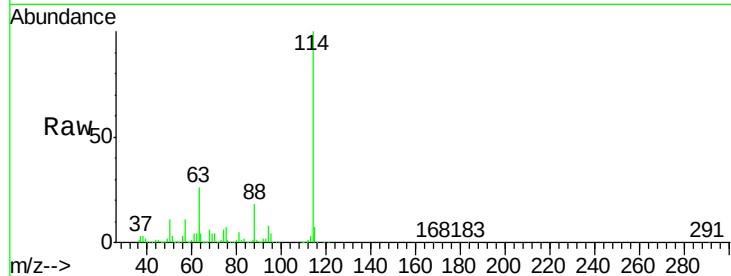
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1356
 Delta R.T. 0.00 min
 Lab File: VL033529.D
 Acq: 30 Mar 2019 8:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.2	21.5	32.3
88	18.1	14.5	21.7

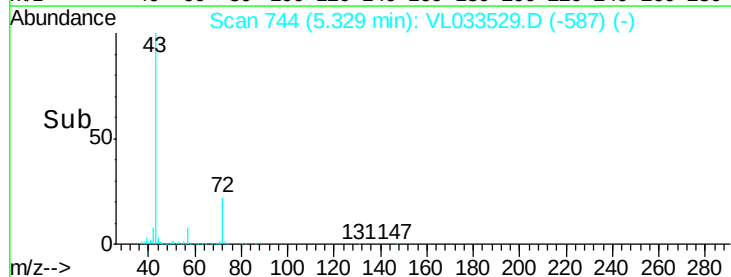
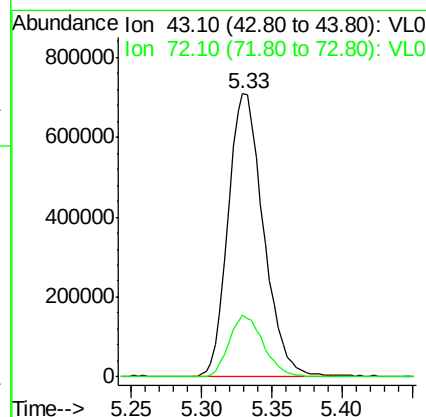
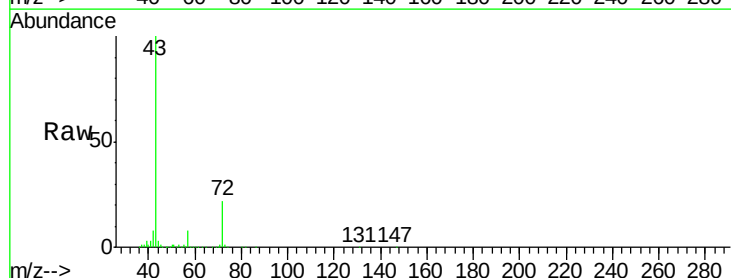
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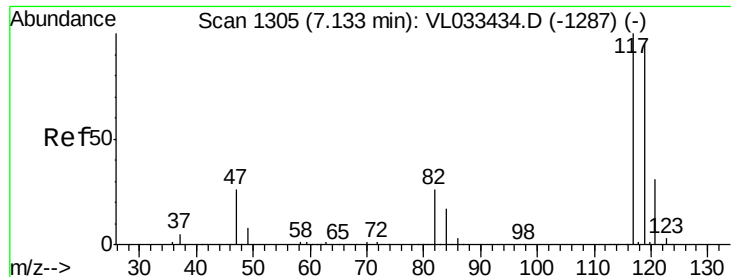
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#34
 2-Butanone
 Concen: 11.663 ppbv
 RT: 5.33 min Scan# 744
 Delta R.T. 0.00 min
 Lab File: VL033529.D
 Acq: 30 Mar 2019 8:53

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.4	17.4	26.2





#35

Carbon Tetrachloride

Concen: 12.717 ppbv

RT: 7.14 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:117 Resp: 1588108

Ion Ratio Lower Upper

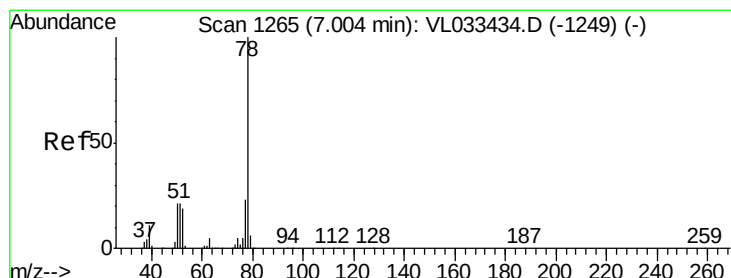
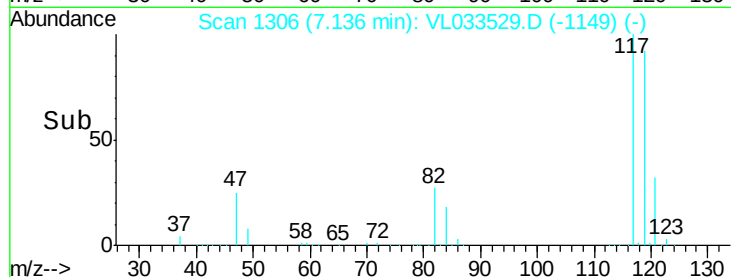
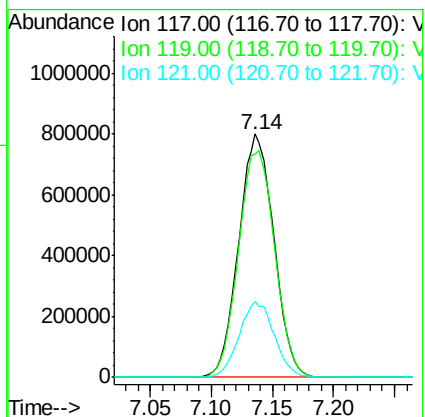
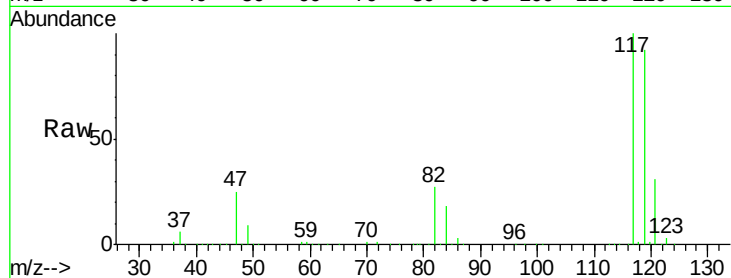
117 100

119 91.9 75.8 113.8

121 31.4 24.7 37.1

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#36

Benzene

Concen: 11.677 ppbv

RT: 7.01 min Scan# 1266

Delta R.T. 0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

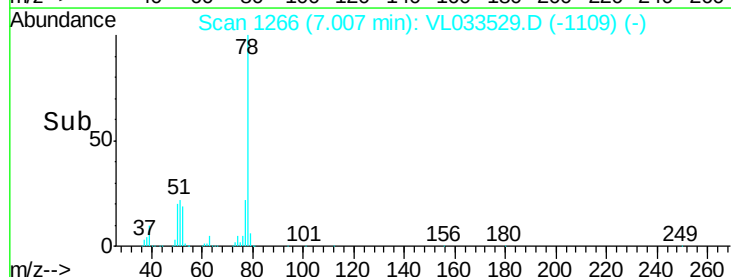
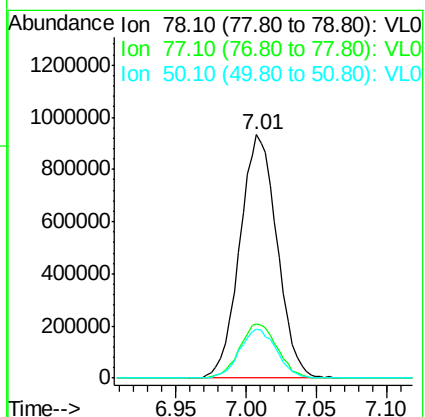
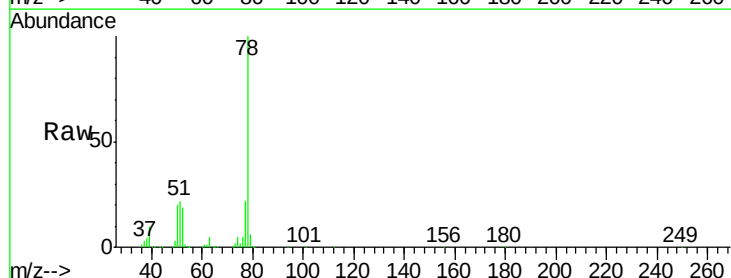
Tgt Ion: 78 Resp: 1727521

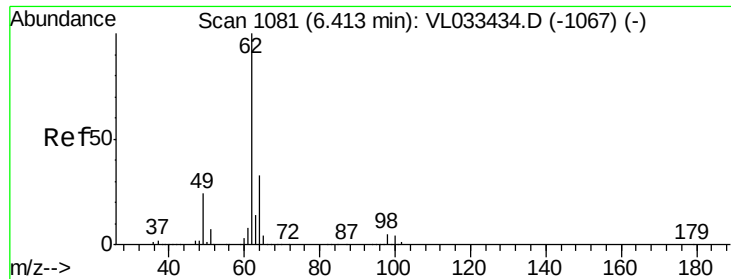
Ion Ratio Lower Upper

78 100

77 22.4 18.1 27.1

50 19.9 16.7 25.1





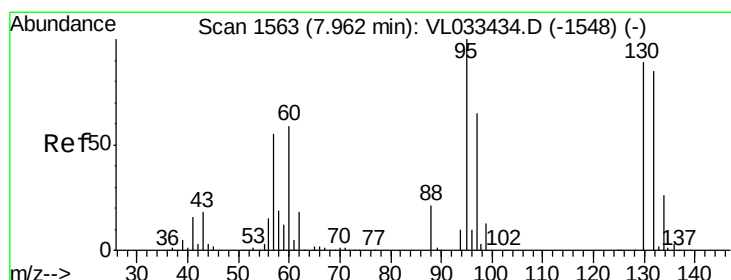
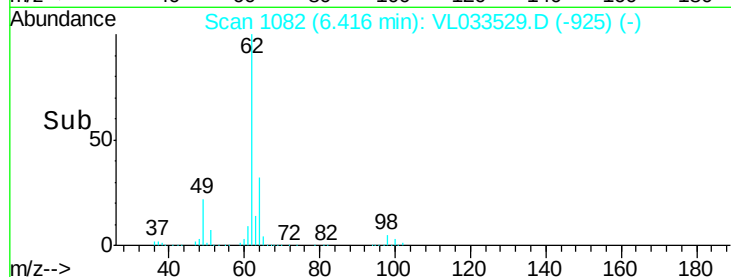
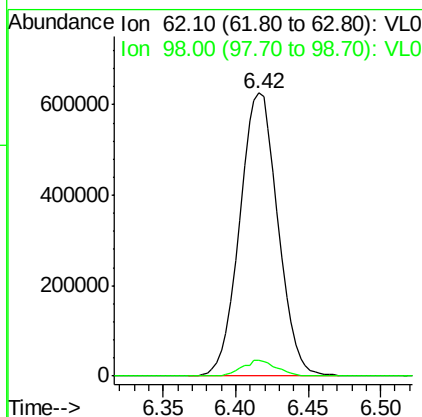
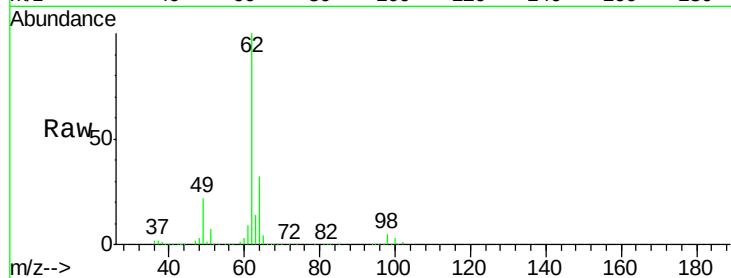
#37
1,2-Dichloroethane
Concen: 11.571 ppbv
RT: 6.42 min Scan# 1082
Delta R.T. 0.00 min
Lab File: VL033529.D
Acq: 30 Mar 2019 8:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 62 Resp: 1147371
Ion Ratio Lower Upper
62 100
98 5.1 4.4 6.6

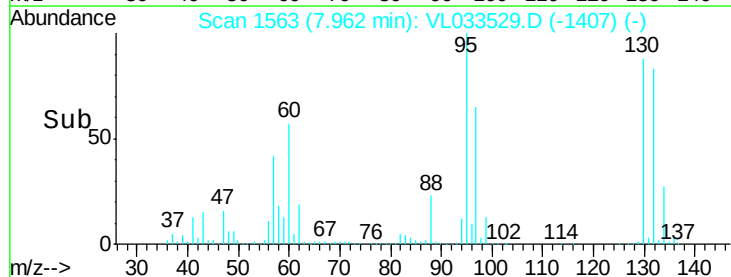
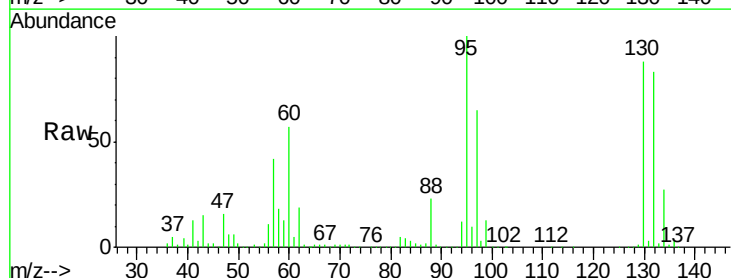
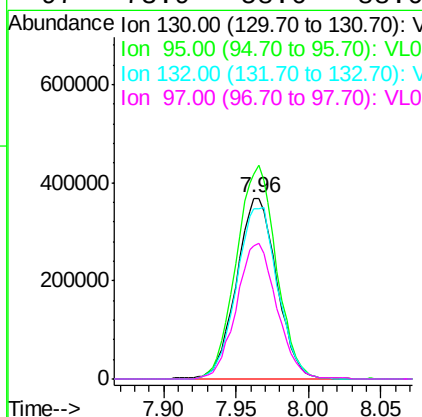
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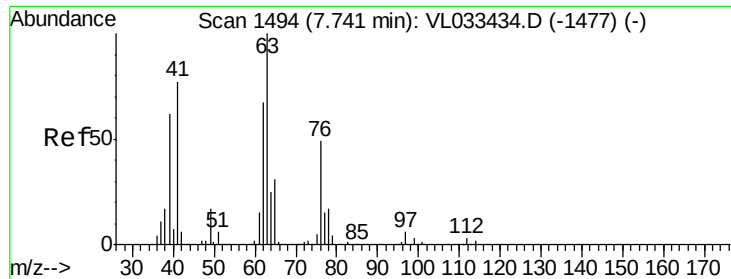
MMDadoda
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#38
Trichloroethene
Concen: 12.708 ppbv
RT: 7.96 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VL033529.D
Acq: 30 Mar 2019 8:53

Tgt Ion: 130 Resp: 707520
Ion Ratio Lower Upper
130 100
95 113.5 89.8 134.8
132 94.8 76.6 115.0
97 73.9 58.6 88.0





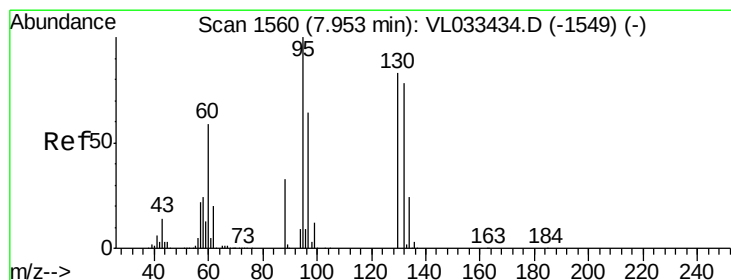
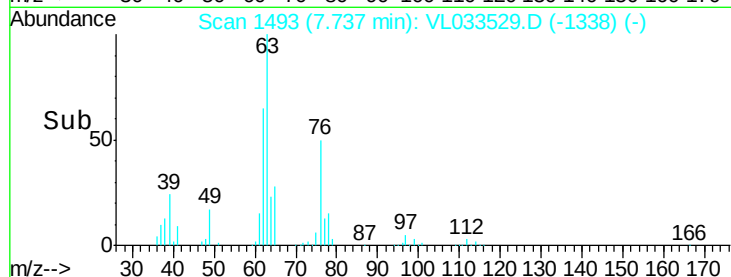
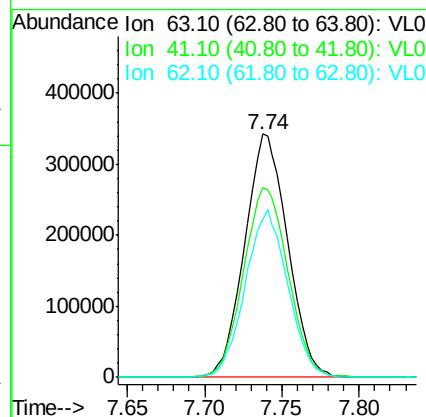
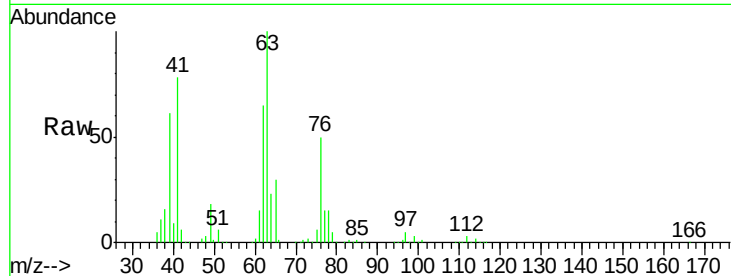
#39
 1,2-Dichloropropane
 Concen: 11.382 ppbv
 RT: 7.74 min Scan# 1493
 Delta R.T. -0.00 min
 Lab File: VL033529.D
 Acq: 30 Mar 2019 8:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
63	100		
41	77.8	61.2	91.8
62	64.6	54.0	81.0

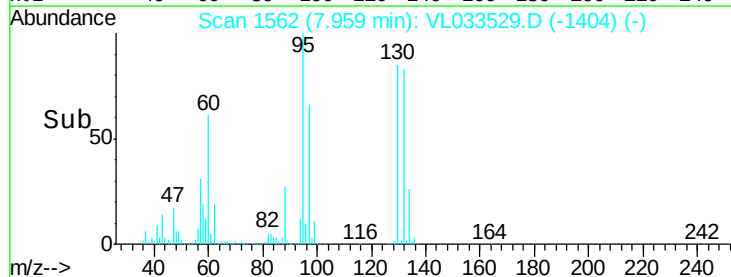
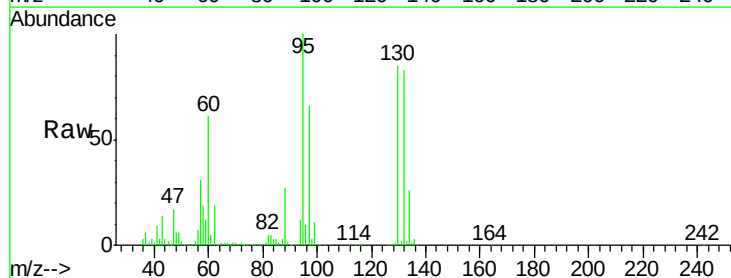
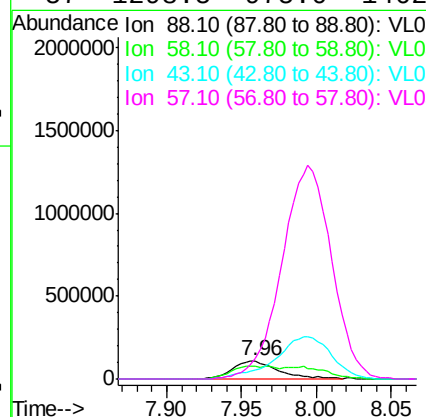
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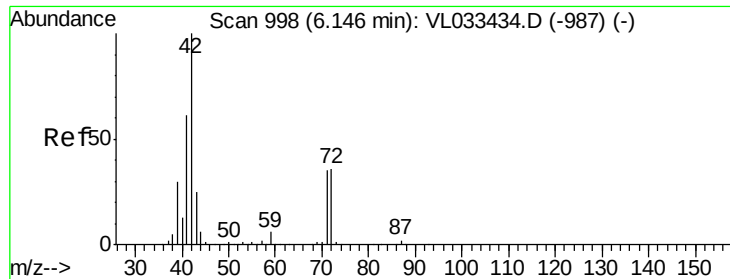
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#40
 1,4-Dioxane
 Concen: 11.098 ppbv
 RT: 7.96 min Scan# 1562
 Delta R.T. 0.01 min
 Lab File: VL033529.D
 Acq: 30 Mar 2019 8:53

Tgt Ion	Ratio	Lower	Upper
88	100		
58	136.0	105.6	158.4
43	292.4	216.7	325.1
57	1298.5	975.0	1462.4





#41

Tetrahydrofuran

Concen: 11.736 ppbv

RT: 6.15 min Scan# 999

Delta R.T. 0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

Instrument :

MSVOA_L

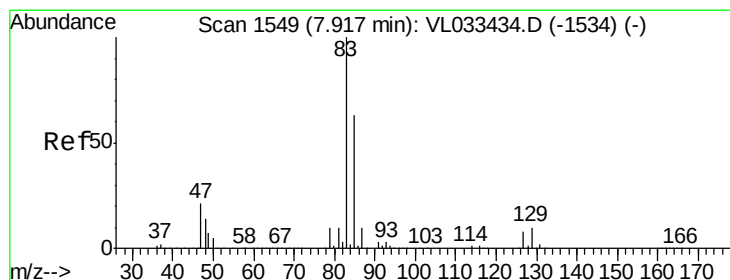
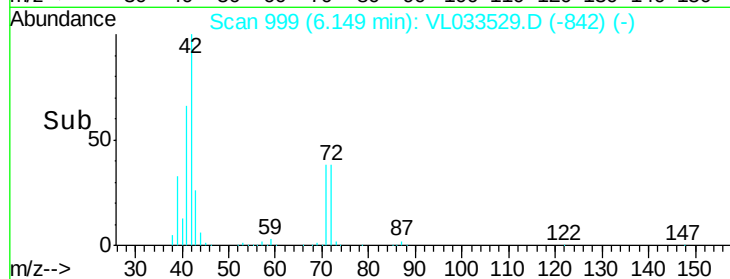
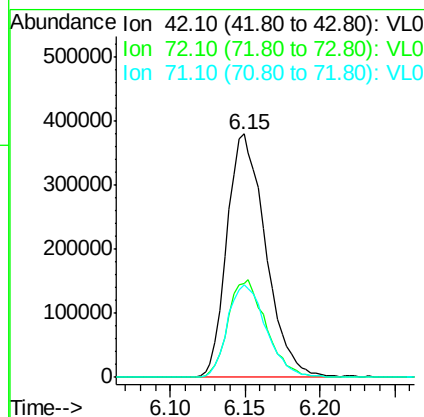
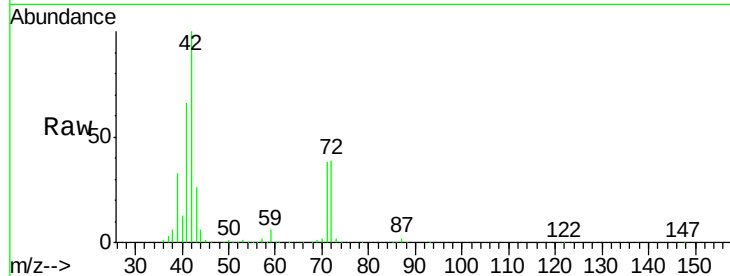
ClientSampleId :

VSTDCCC010EC

Tot Ion:	42	Resp:	683791
Ion Ratio		Lower	Upper
42	100		
72	39.6	30.2	45.2
71	38.1	29.4	44.2

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#42

Bromodichloromethane

Concen: 11.929 ppbv

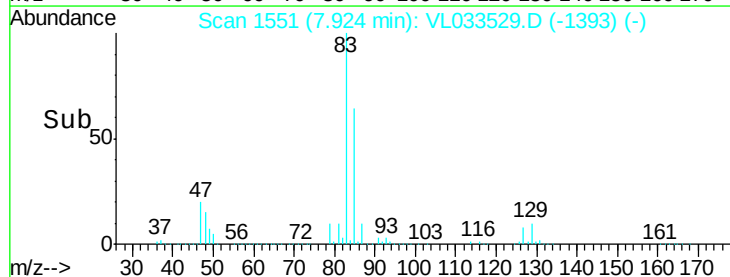
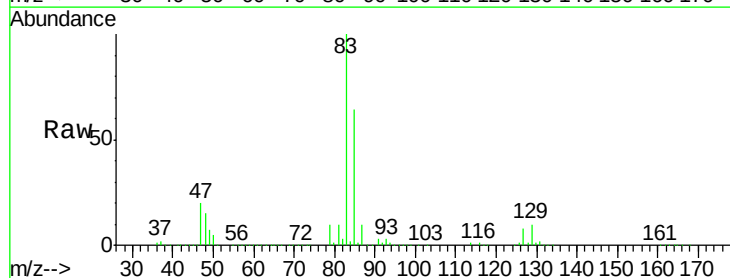
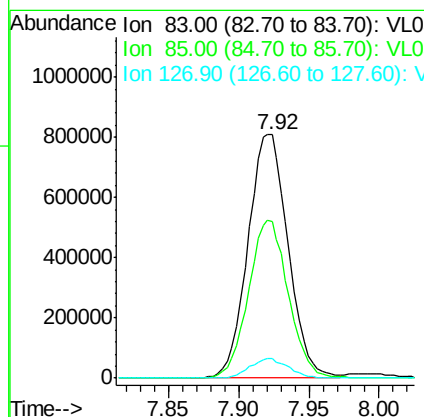
RT: 7.92 min Scan# 1551

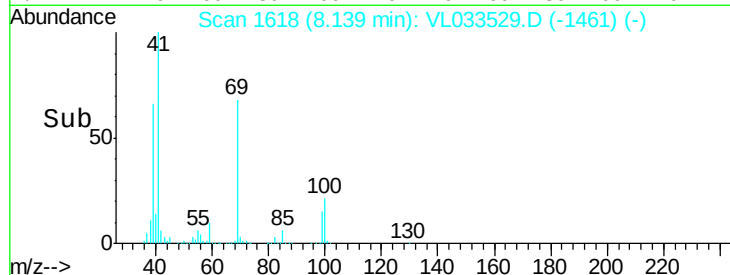
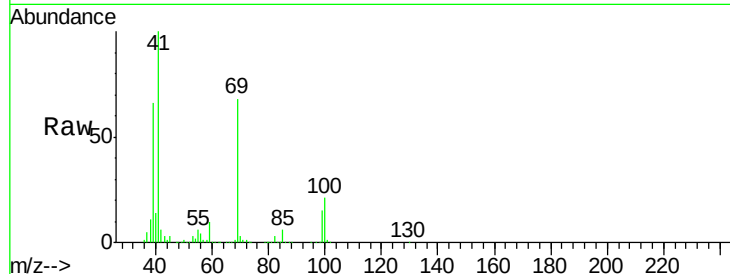
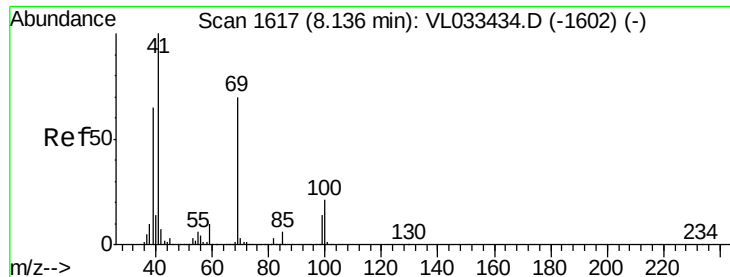
Delta R.T. 0.01 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

Tgt Ion:	83	Resp:	1611116
Ion Ratio		Lower	Upper
83	100		
85	64.2	50.7	76.1
127	7.9	6.6	9.8





#43

Methyl Methacrylate

Concen: 12.055 ppbv

RT: 8.14 min Scan# 1618

Delta R.T. 0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

Tot Ion:	69	Resp:	724147
Ion Ratio	Lower	Upper	
69	100		
41	148.2	116.6	174.8
100	30.1	24.4	36.6

Instrument :

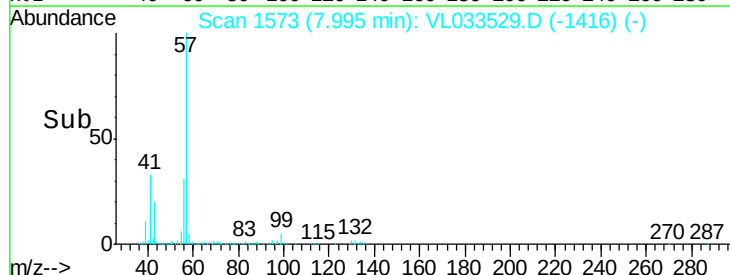
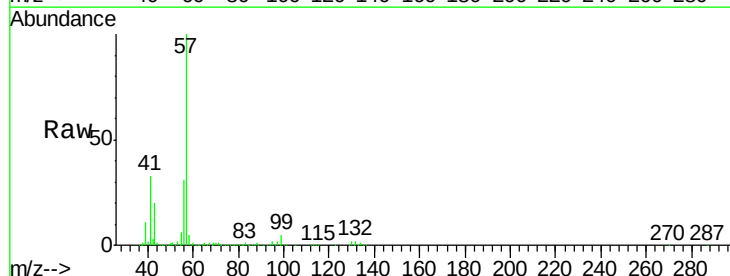
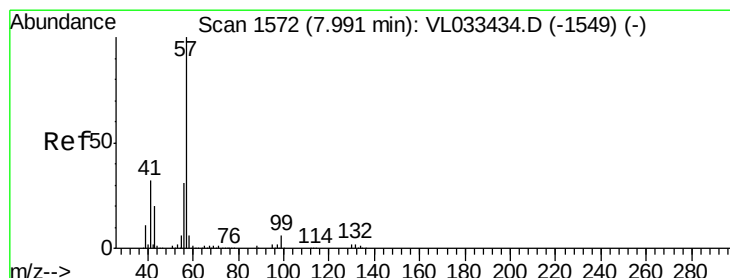
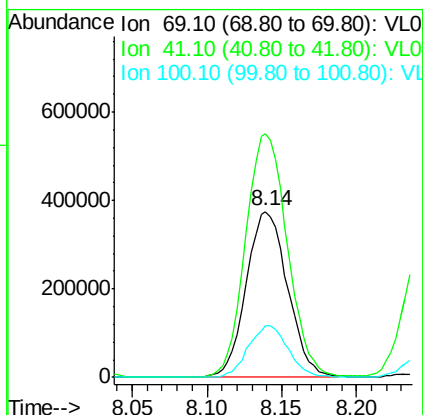
MSVOA_L

ClientSampleId :

VSTDCCC010EC

Manual Integrations
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#44

2,2,4-Trimethylpentane

Concen: 11.510 ppbv

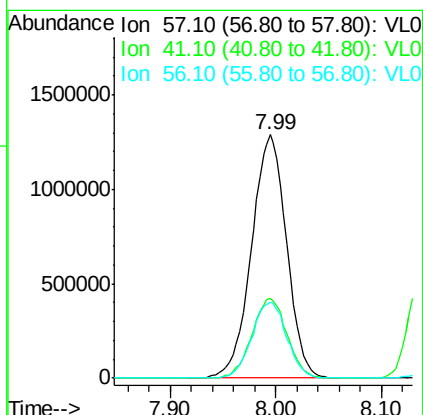
RT: 7.99 min Scan# 1573

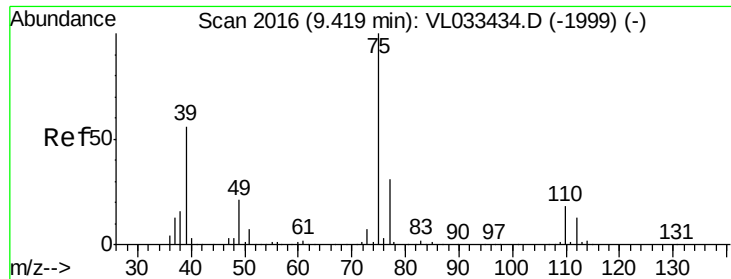
Delta R.T. 0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

Tgt Ion:	57	Resp:	2975653
Ion Ratio	Lower	Upper	
57	100		
41	32.8	26.0	39.0
56	31.1	24.6	37.0





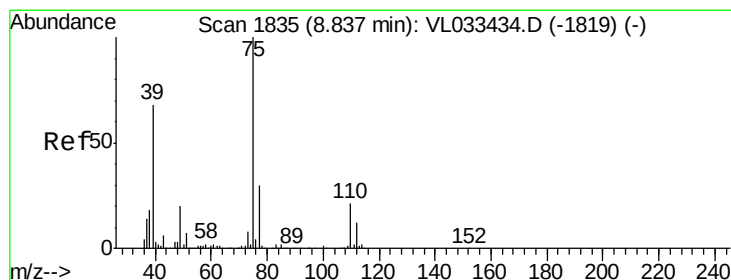
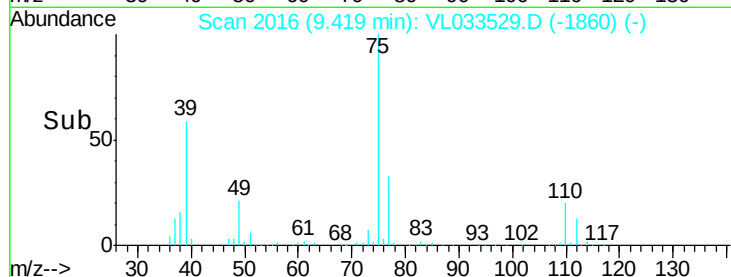
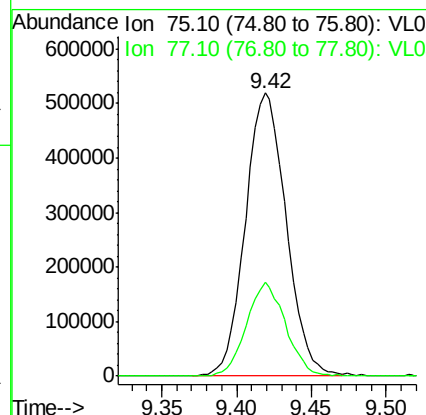
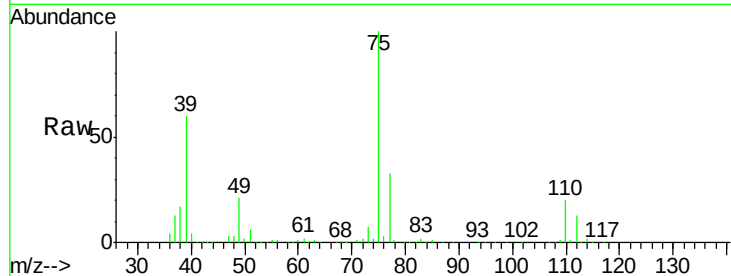
#45
t-1,3-Dichloropropene
Concen: 13.365 ppbv
RT: 9.42 min Scan# 2016
Delta R.T. 0.00 min
Lab File: VL033529.D
Acq: 30 Mar 2019 8:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
75	100		
77	33.1	24.5	36.7

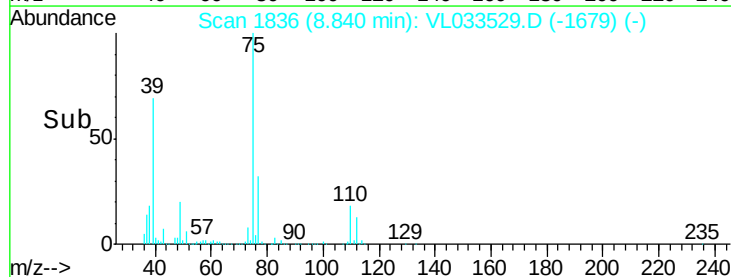
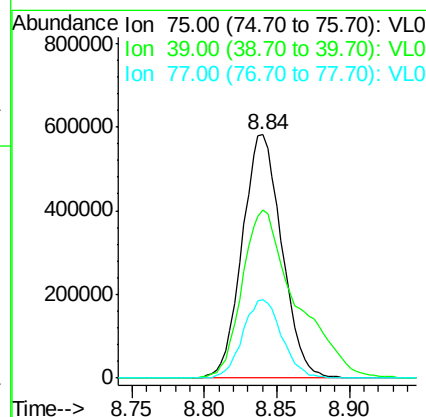
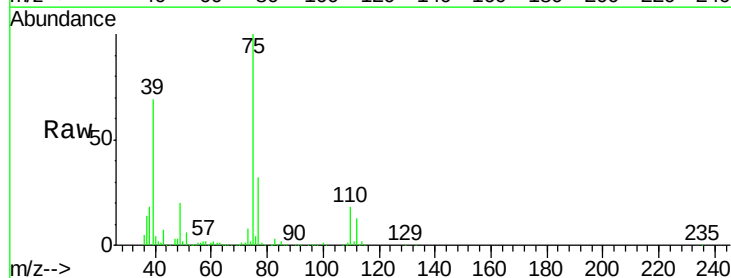
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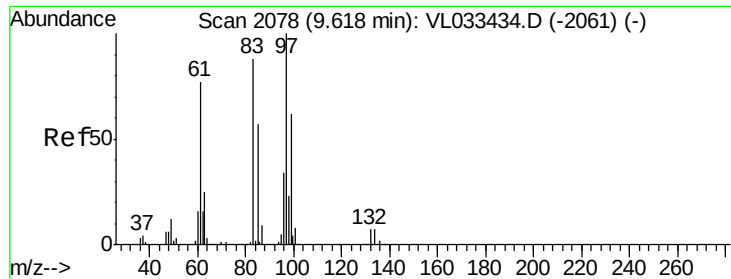
MMDadoda
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#46
cis-1,3-Dichloropropene
Concen: 12.808 ppbv
RT: 8.84 min Scan# 1836
Delta R.T. 0.00 min
Lab File: VL033529.D
Acq: 30 Mar 2019 8:53

Tgt Ion	Ratio	Lower	Upper
75	100		
39	69.2	54.1	81.1
77	32.0	23.9	35.9





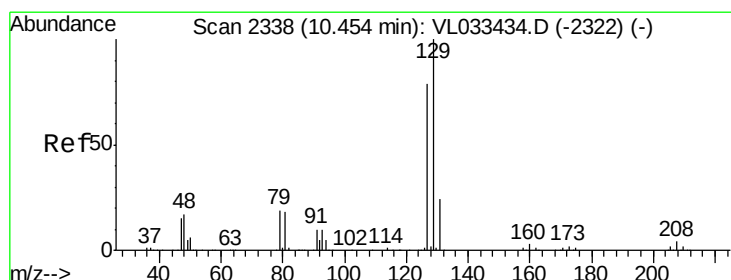
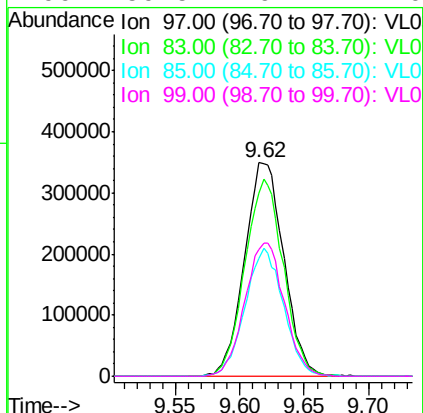
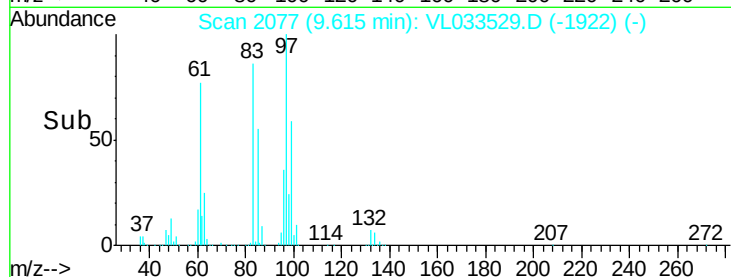
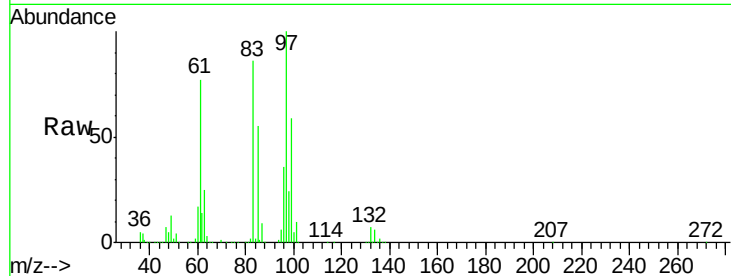
#47
 1,1,2-Trichloroethane
 Concen: 11.275 ppbv
 RT: 9.62 min Scan# 2077
 Delta R.T. -0.00 min
 Lab File: VL033529.D
 Acq: 30 Mar 2019 8:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		741983		
83	85.8	70.5	105.7		
85	55.3	45.6	68.4		
99	59.5	49.4	74.0		

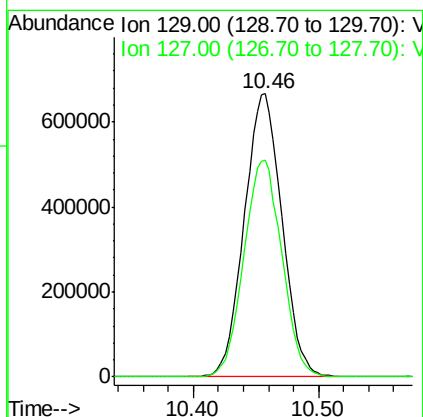
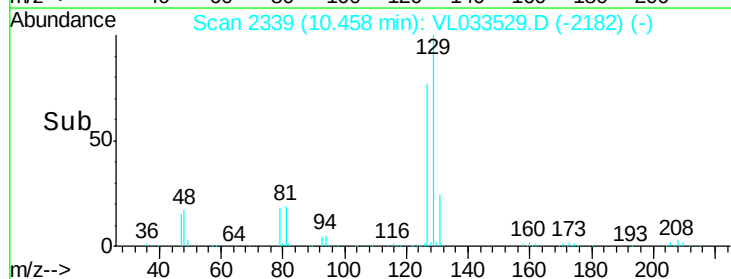
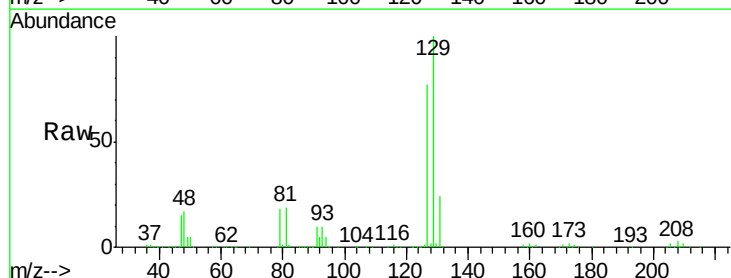
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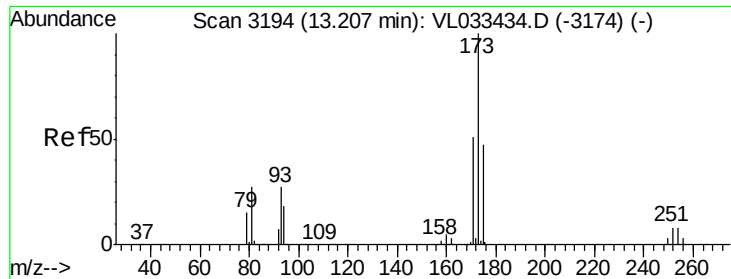
MMDadoda
 4/1/2019 4:03:36 AM



#48
 Dibromochloromethane
 Concen: 12.571 ppbv
 RT: 10.46 min Scan# 2339
 Delta R.T. 0.00 min
 Lab File: VL033529.D
 Acq: 30 Mar 2019 8:53

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
129	100		1395390		
127	77.3	39.1	117.2		





#49

Bromoform

Concen: 12.190 ppbv

RT: 13.21 min Scan# 3194

Delta R.T. 0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:173 Resp: 1292643

Ion Ratio Lower Upper

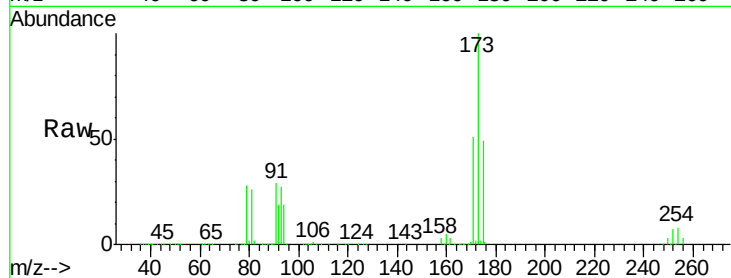
173 100

175 48.7 39.3 58.9

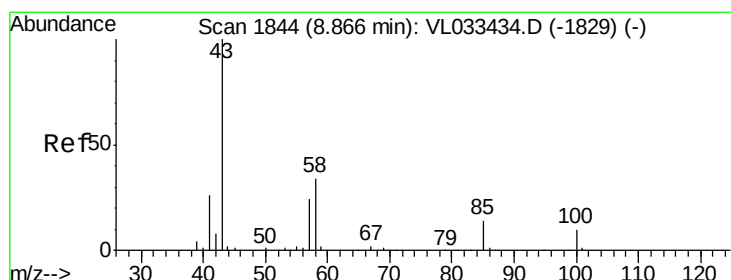
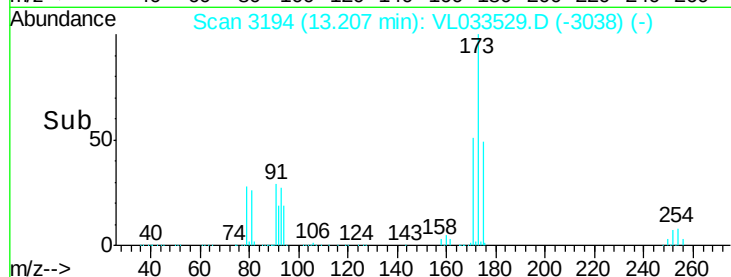
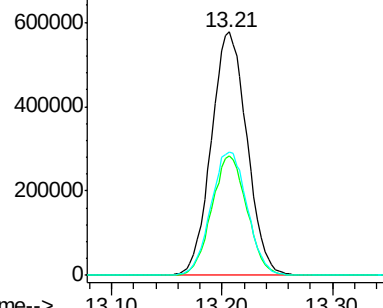
171 51.6 41.2 61.8

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



#50

4-Methyl-2-Pentanone

Concen: 11.755 ppbv

RT: 8.87 min Scan# 1846

Delta R.T. 0.01 min

Lab File: VL033529.D

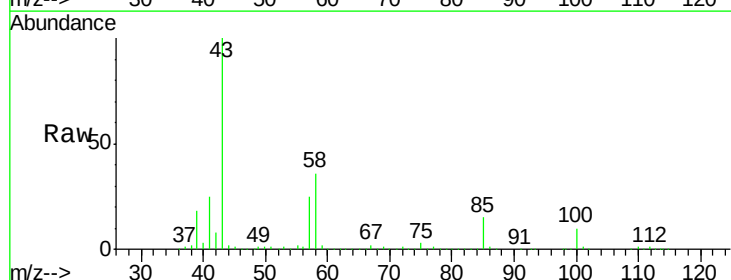
Acq: 30 Mar 2019 8:53

Tgt Ion: 43 Resp: 1823367

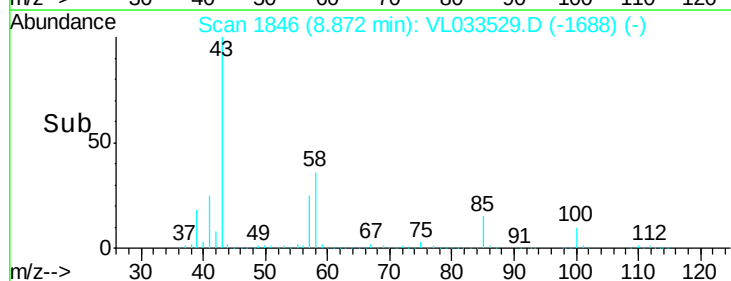
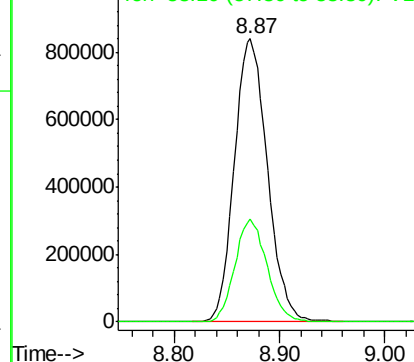
Ion Ratio Lower Upper

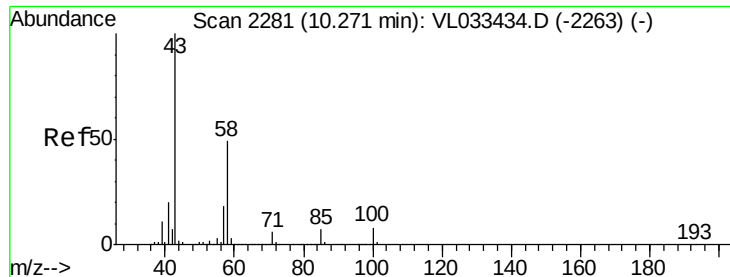
43 100

58 35.3 28.0 42.0



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





#51

2-Hexanone

Concen: 12.570 ppbv

RT: 10.27 min Scan# 2282

Delta R.T. 0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1454472

Ion Ratio Lower Upper

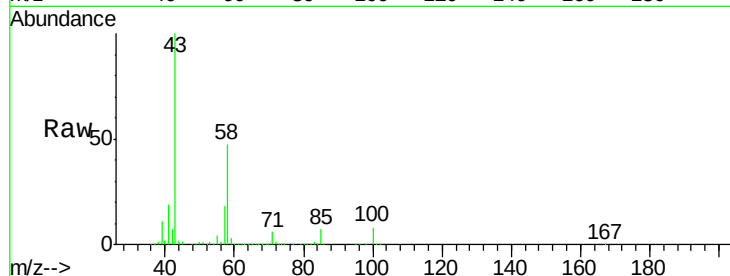
43 100

58 47.0 38.2 57.2

98 0.4 0.2 0.2#

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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

10.27

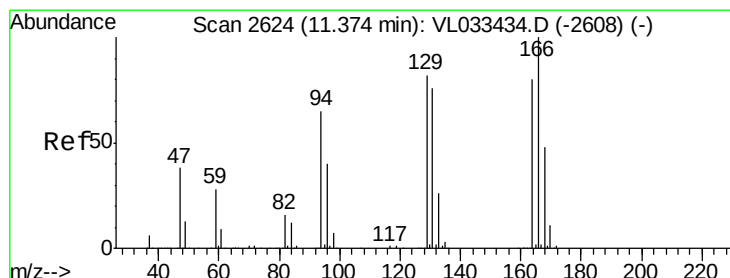
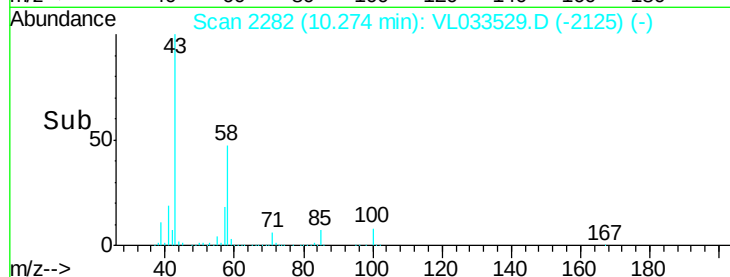
600000

400000

200000

0

Time-->



#52

Tetrachloroethene

Concen: 12.563 ppbv

RT: 11.37 min Scan# 2624

Delta R.T. 0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

Tgt Ion:164 Resp: 701246

Ion Ratio Lower Upper

164 100

166 121.5 99.5 149.3

129 100.8 81.4 122.2

131 97.9 75.6 113.4

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

600000

500000

400000

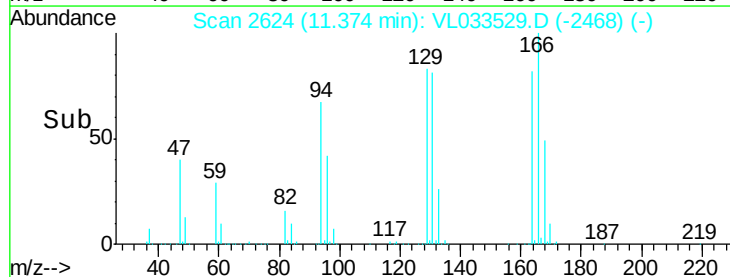
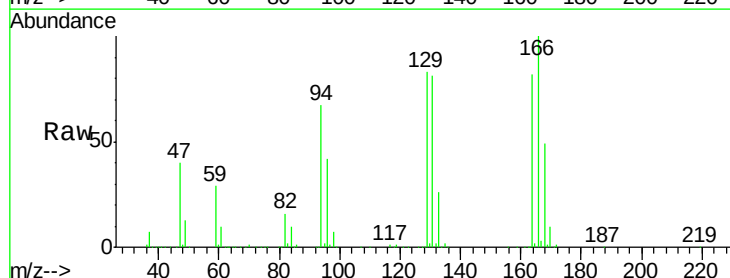
300000

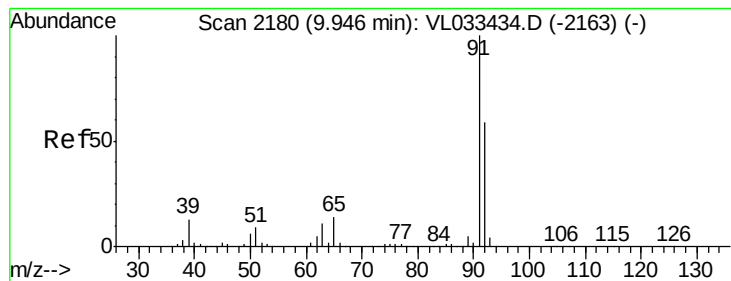
200000

100000

0

Time-->





#53

Toluene

Concen: 12.294 ppbv

RT: 9.95 min Scan# 2182

Delta R.T. 0.01 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 2113430

Ion Ratio Lower Upper

91 100

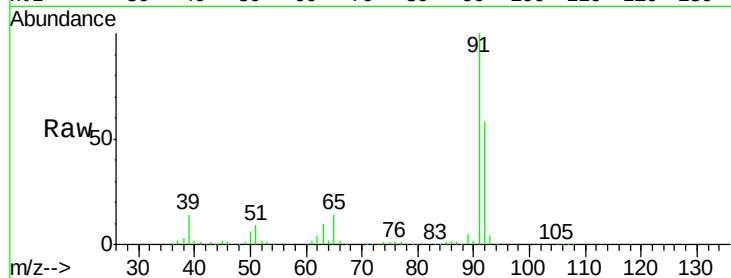
92 58.6 47.4 71.0

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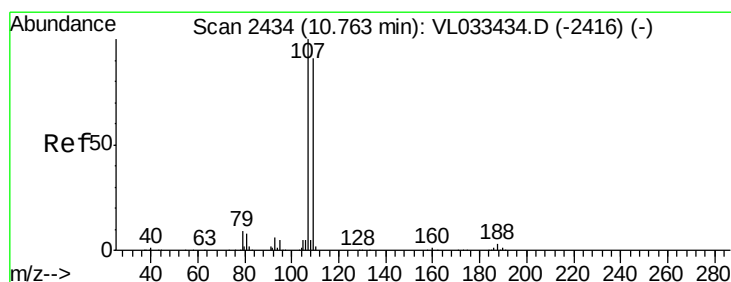
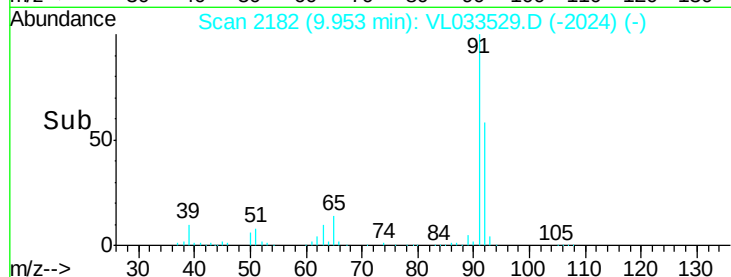
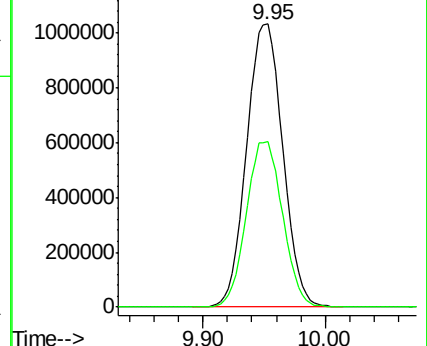
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 11.808 ppbv

RT: 10.77 min Scan# 2435

Delta R.T. 0.00 min

Lab File: VL033529.D

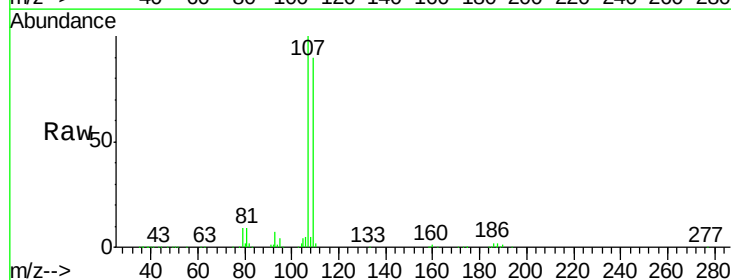
Acq: 30 Mar 2019 8:53

Tgt Ion: 107 Resp: 1215376

Ion Ratio Lower Upper

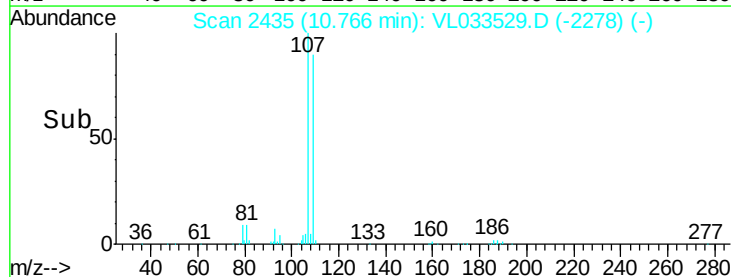
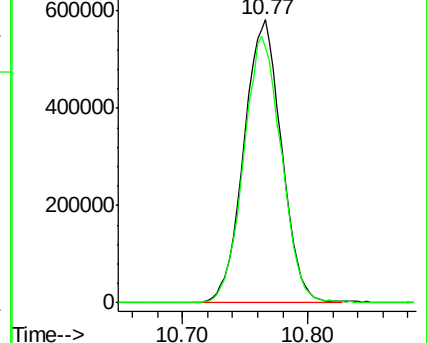
107 100

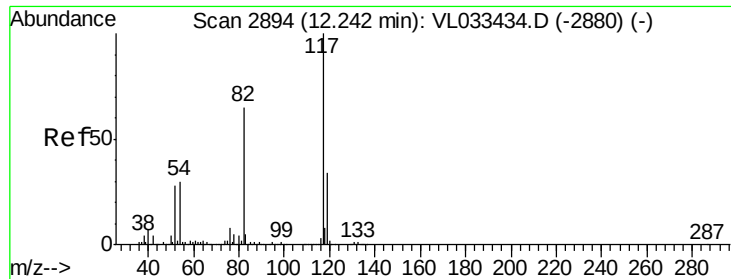
109 90.2 72.7 109.1



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





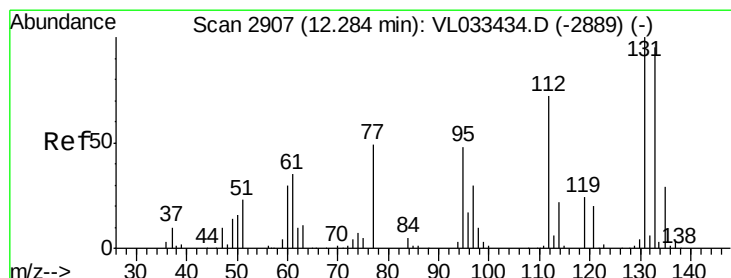
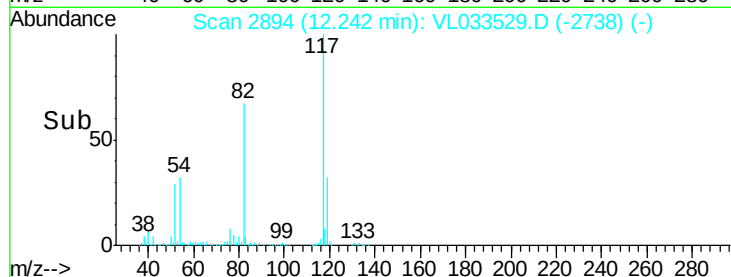
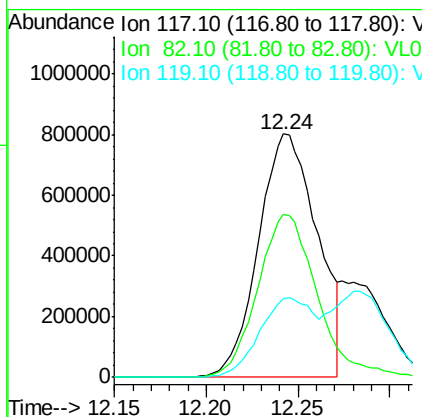
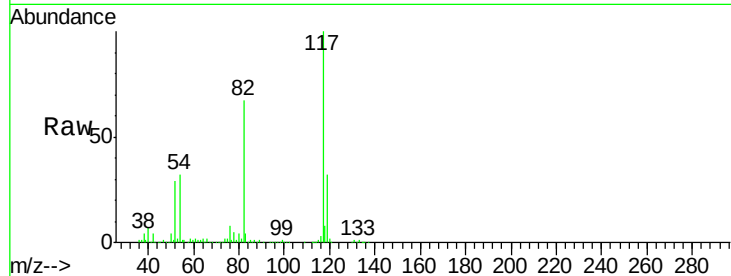
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.24 min Scan# 2894
Delta R.T. 0.00 min
Lab File: VL033529.D
Acq: 30 Mar 2019 8:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:117 Resp: 1786011
Ion Ratio Lower Upper
117 100
82 68.3 51.5 77.3
119 28.1 25.5 38.3

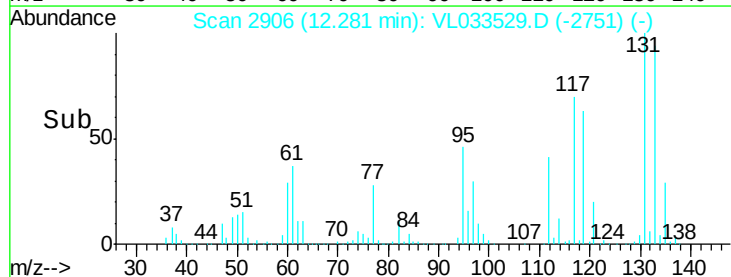
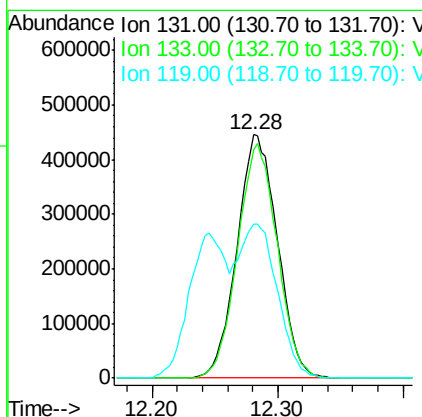
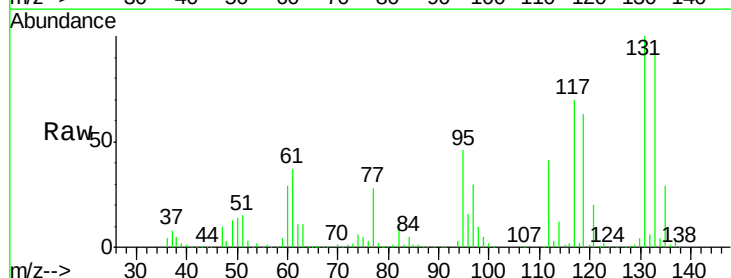
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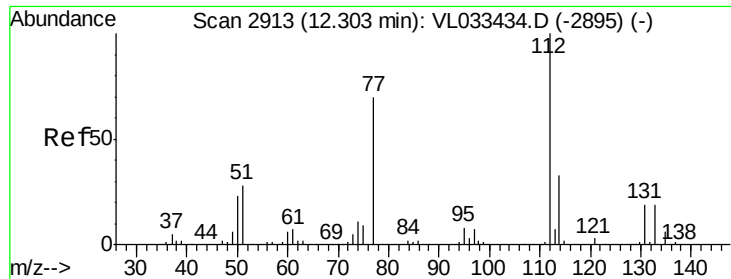
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#56
1,1,1,2-Tetrachloroethane
Concen: 12.145 ppbv
RT: 12.28 min Scan# 2906
Delta R.T. -0.00 min
Lab File: VL033529.D
Acq: 30 Mar 2019 8:53

Tgt Ion:131 Resp: 994110
Ion Ratio Lower Upper
131 100
133 94.7 76.2 114.4
119 59.3 45.0 67.6





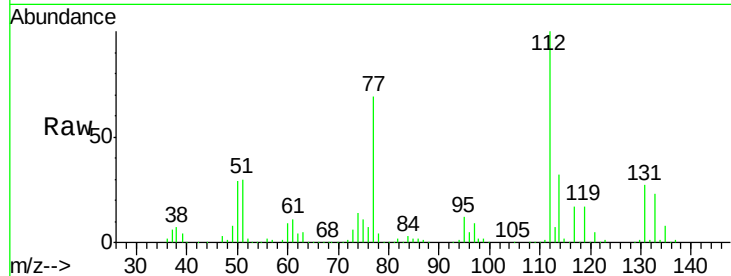
#57
Chlorobenzene
Concen: 11.840 ppbv
RT: 12.30 min Scan# 2913
Delta R.T. 0.00 min
Lab File: VL033529.D
Acq: 30 Mar 2019 8:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

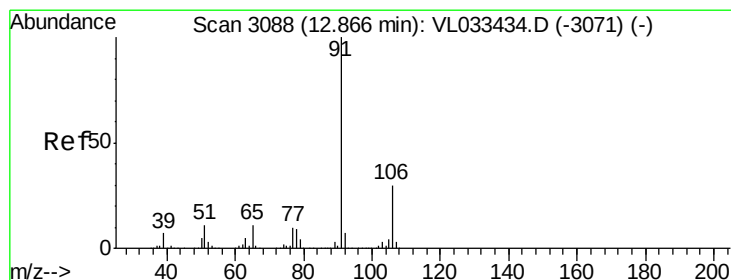
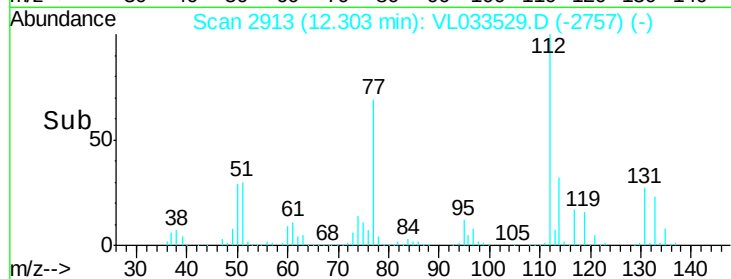
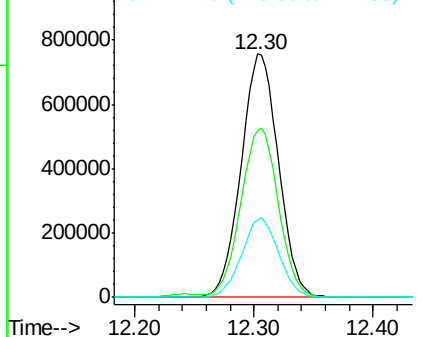
Tot Ion: 112 Resp: 1641974
Ion Ratio Lower Upper
112 100
77 68.6 57.3 85.9
114 31.8 29.8 36.4

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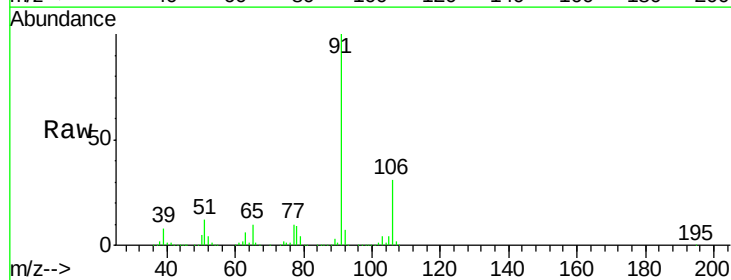


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V

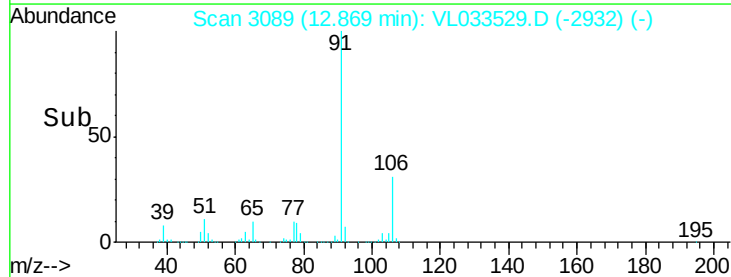
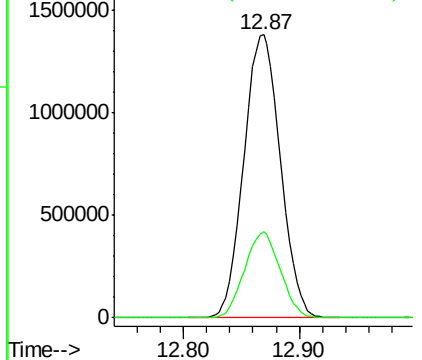


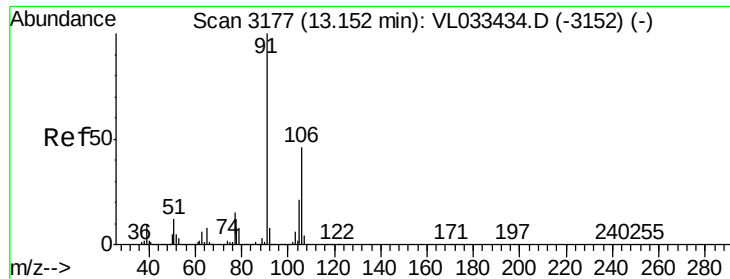
#58
Ethyl Benzene
Concen: 12.686 ppbv
RT: 12.87 min Scan# 3089
Delta R.T. 0.00 min
Lab File: VL033529.D
Acq: 30 Mar 2019 8:53

Tgt Ion: 91 Resp: 3025629
Ion Ratio Lower Upper
91 100
106 30.6 23.8 35.6



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





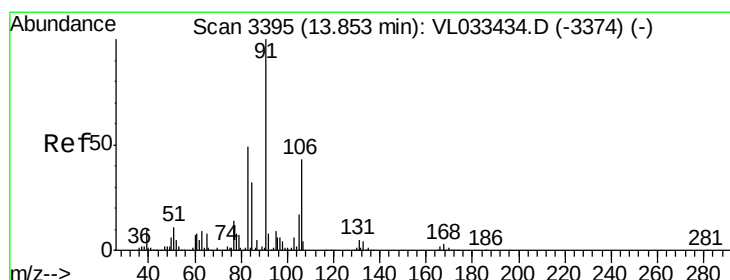
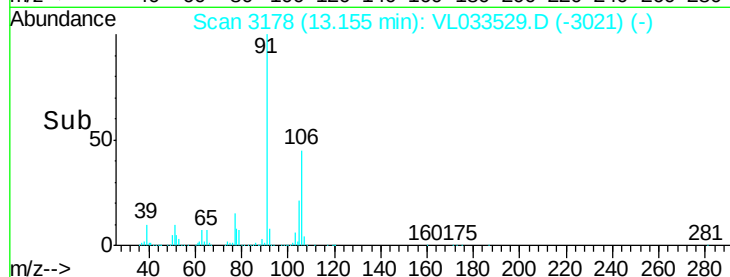
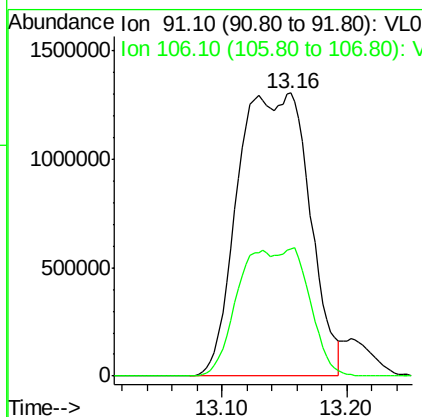
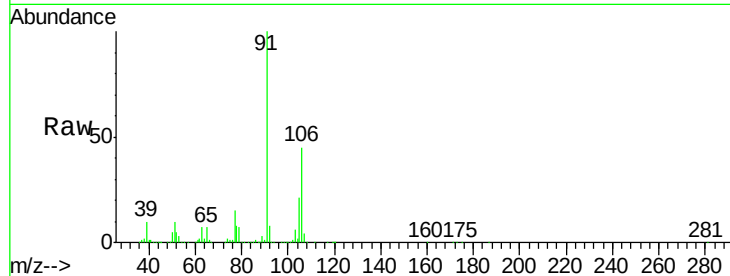
#59
m/p-Xylene
Concen: 24.397 ppbv m
RT: 13.16 min Scan# 3178
Delta R.T. 0.00 min
Lab File: VL033529.D
Acq: 30 Mar 2019 8:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 5197347
Ion Ratio Lower Upper
91 100
106 44.5 0.0 0.0#

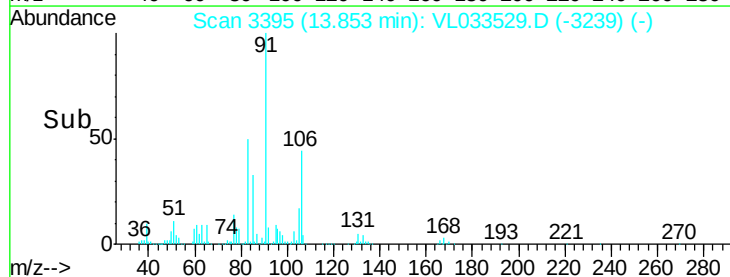
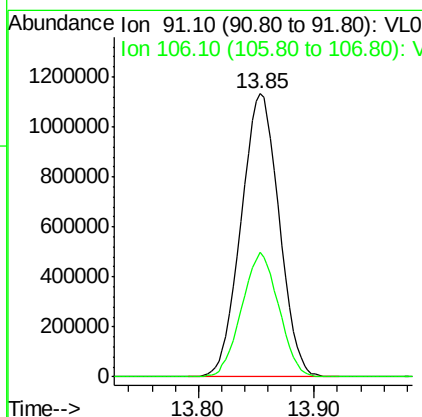
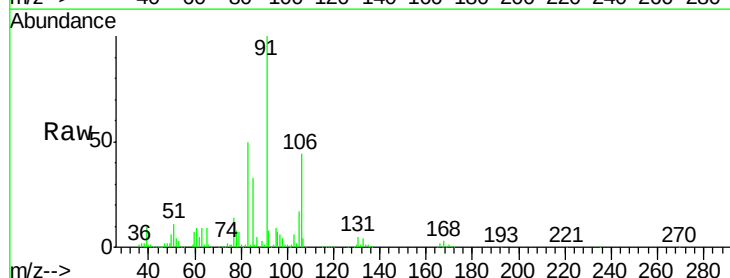
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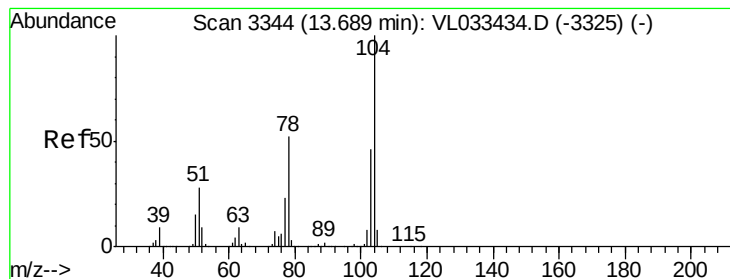
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#60
o-Xylene
Concen: 12.501 ppbv
RT: 13.85 min Scan# 3395
Delta R.T. 0.00 min
Lab File: VL033529.D
Acq: 30 Mar 2019 8:53

Tgt Ion: 91 Resp: 2575222
Ion Ratio Lower Upper
91 100
106 42.9 21.4 64.3





#61

Stvrene

Concen: 13.177 ppbv

RT: 13.69 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:104 Resp: 1863078

Ion Ratio Lower Upper

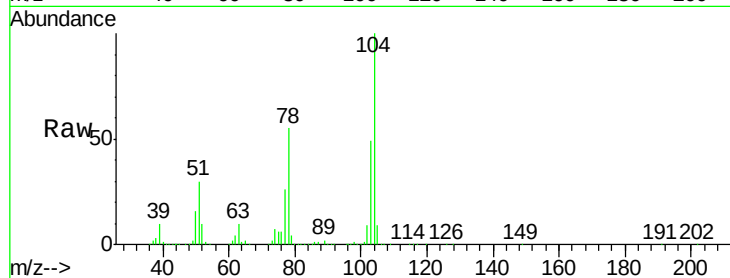
104 100

78 54.9 43.2 64.8

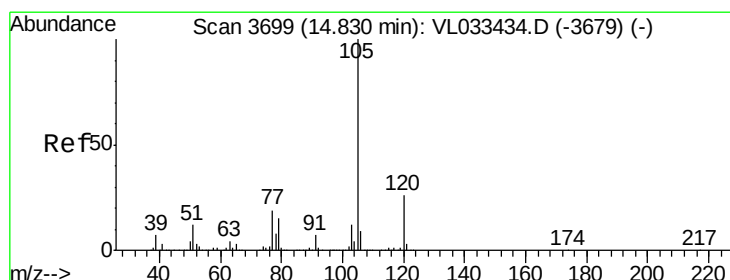
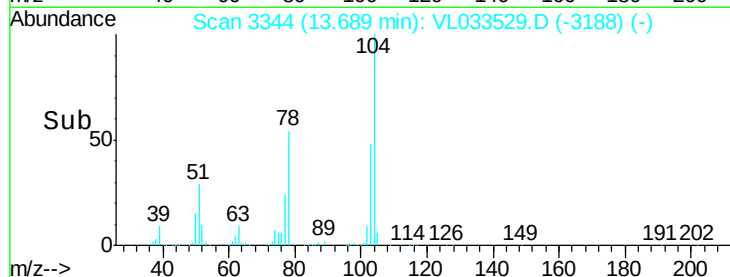
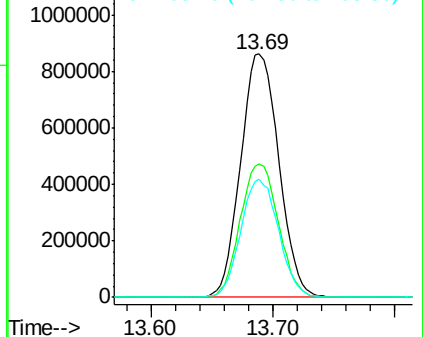
103 47.9 37.8 56.8

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



#62

Isopropylbenzene

Concen: 12.213 ppbv

RT: 14.83 min Scan# 3699

Delta R.T. 0.00 min

Lab File: VL033529.D

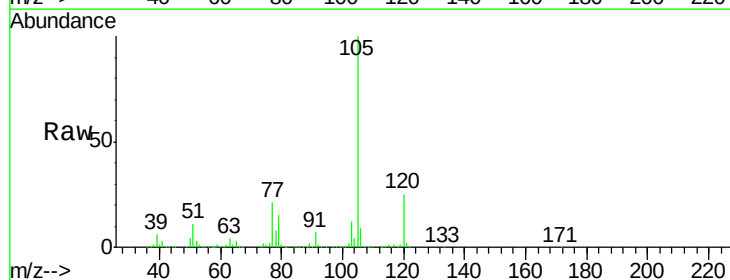
Acq: 30 Mar 2019 8:53

Tgt Ion:105 Resp: 3562797

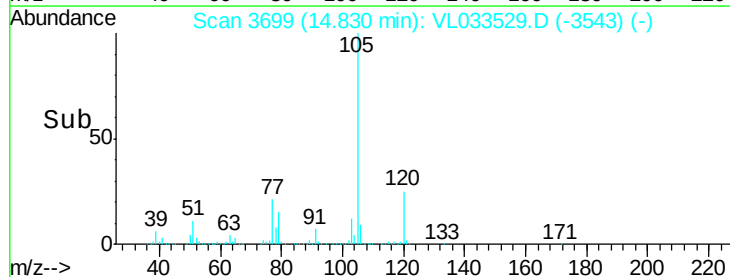
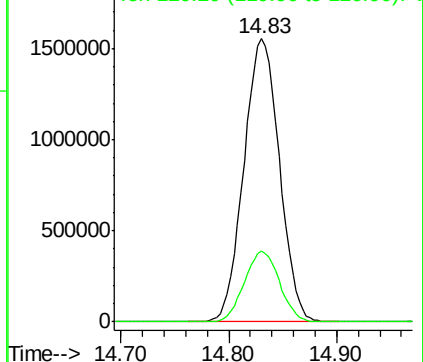
Ion Ratio Lower Upper

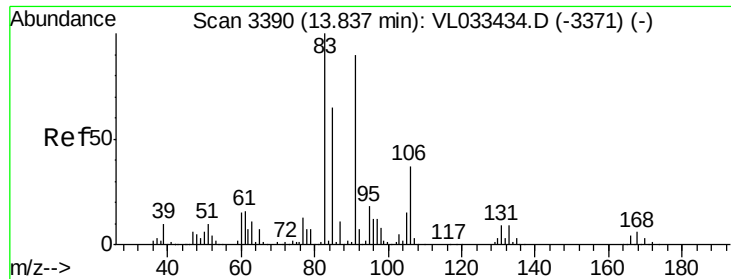
105 100

120 24.8 20.2 30.2



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





#63

1,1,2,2-Tetrachloroethane

Concen: 11.833 ppbv

RT: 13.84 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 83 Resp: 1794873

Ion Ratio Lower Upper

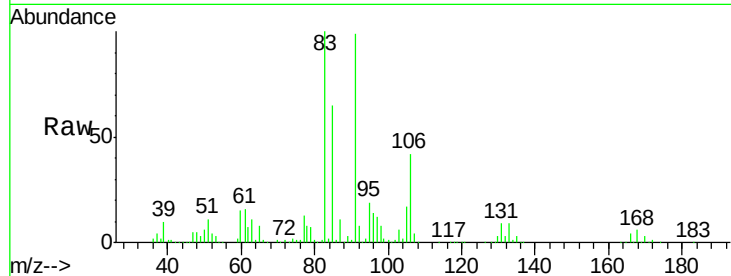
83 100

131 9.5 4.7 14.0

85 65.1 32.7 98.1

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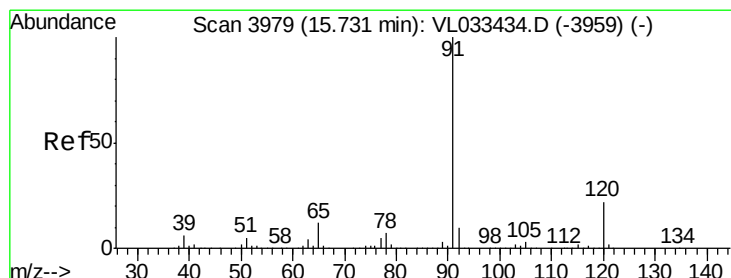
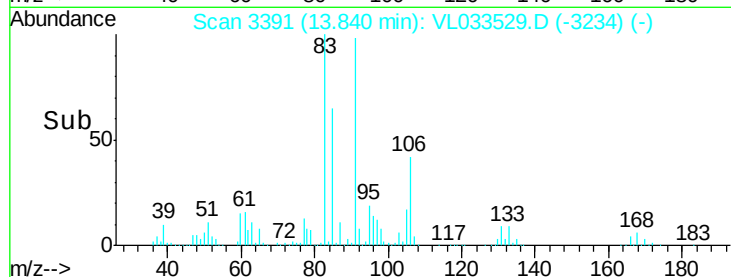
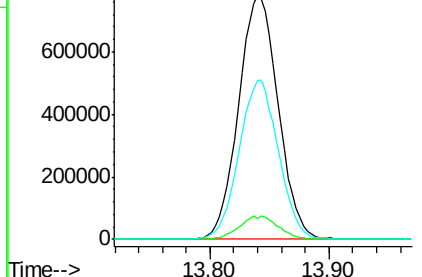
MMDadoda
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Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 12.346 ppbv

RT: 15.73 min Scan# 3978

Delta R.T. -0.00 min

Lab File: VL033529.D

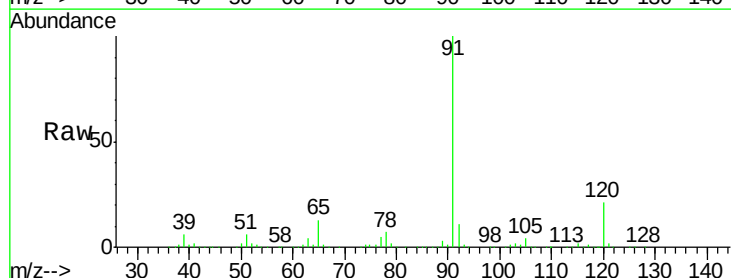
Acq: 30 Mar 2019 8:53

Tgt Ion: 120 Resp: 913873

Ion Ratio Lower Upper

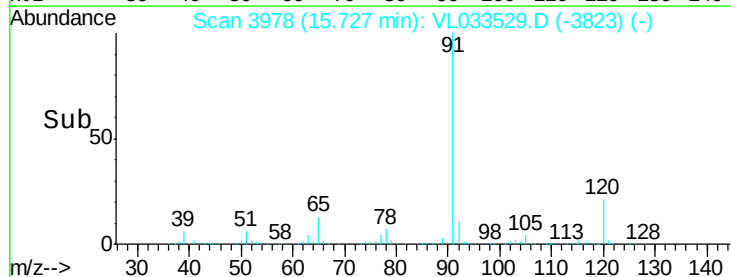
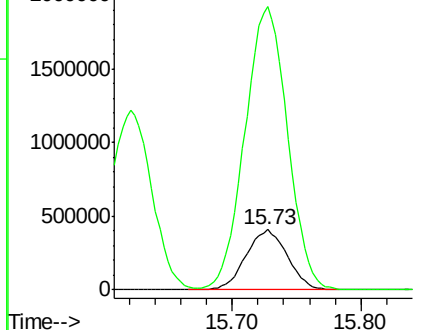
120 100

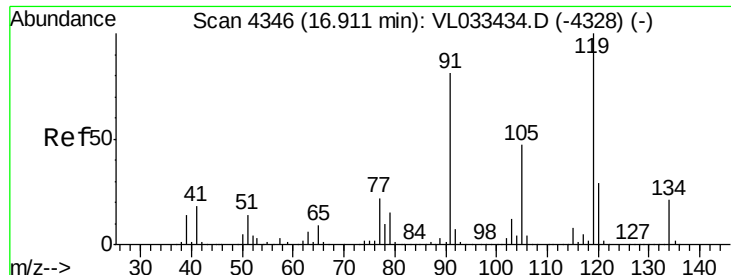
91 485.8 387.4 581.2



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0





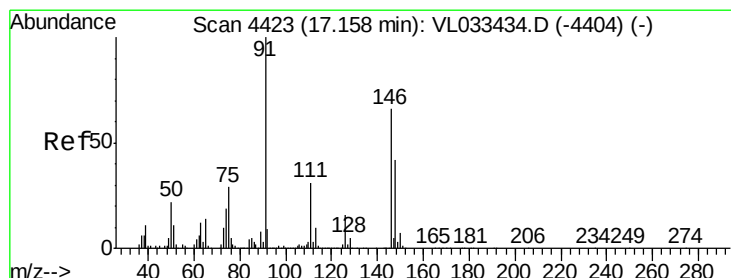
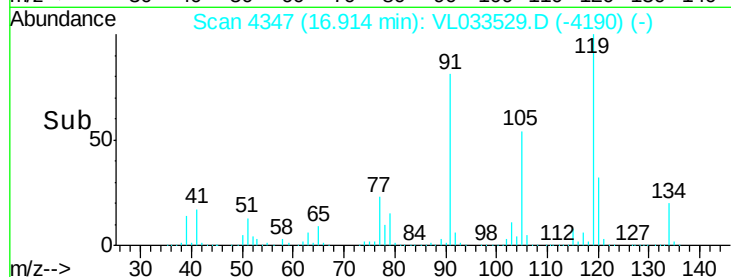
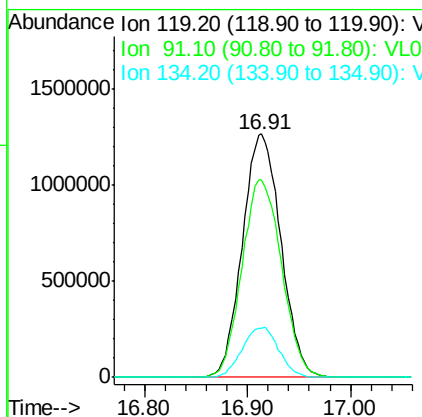
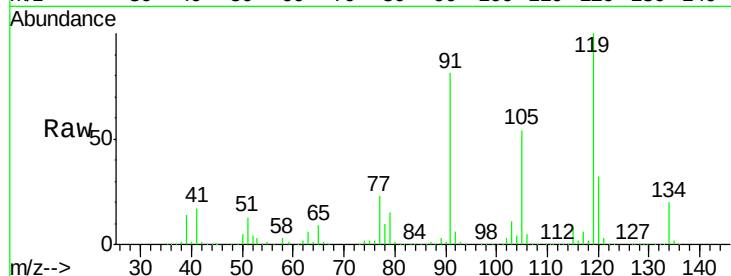
#65
tert-Butylbenzene
Concen: 12.742 ppbv
RT: 16.91 min Scan# 4347
Delta R.T. 0.00 min
Lab File: VL033529.D
Acq: 30 Mar 2019 8:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 119 Resp: 3275437
Ion Ratio Lower Upper
119 100
91 83.8 66.4 99.6
134 19.6 15.5 23.3

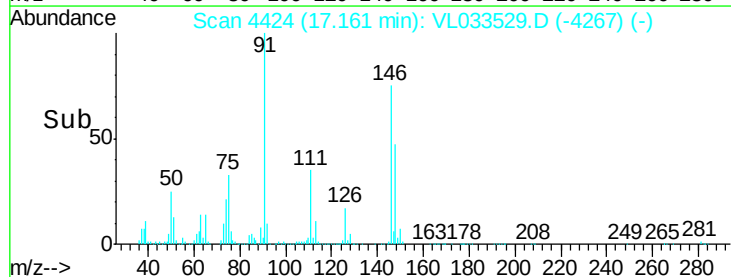
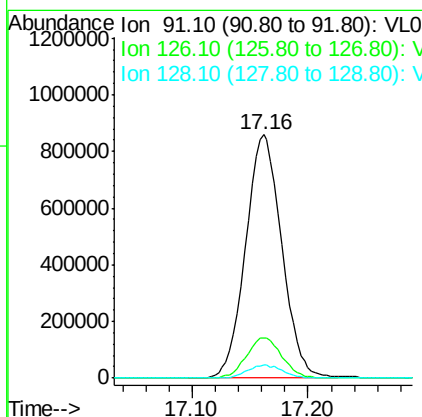
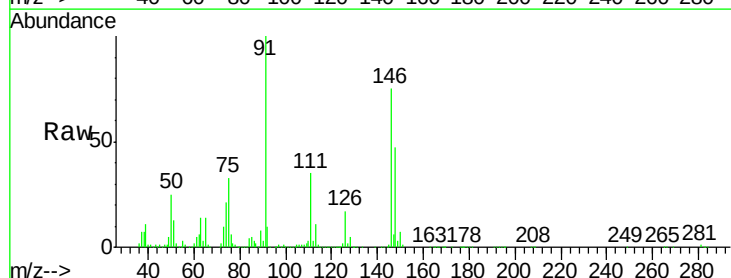
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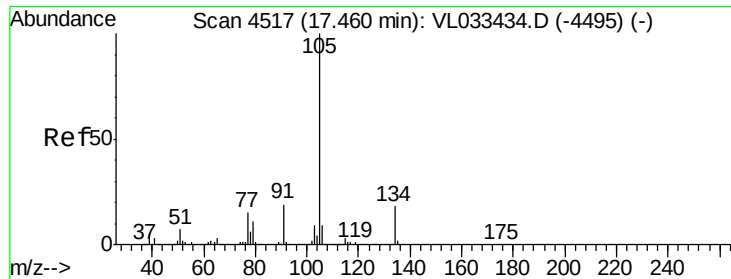
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#66
Benzyl Chloride
Concen: 15.597 ppbv
RT: 17.16 min Scan# 4424
Delta R.T. 0.00 min
Lab File: VL033529.D
Acq: 30 Mar 2019 8:53

Tgt Ion: 91 Resp: 1864420
Ion Ratio Lower Upper
91 100
126 16.4 13.0 19.6
128 5.4 4.2 6.2





#67

sec-Butylbenzene

Concen: 12.719 ppbv

RT: 17.46 min Scan# 4518

Delta R.T. 0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 4649798

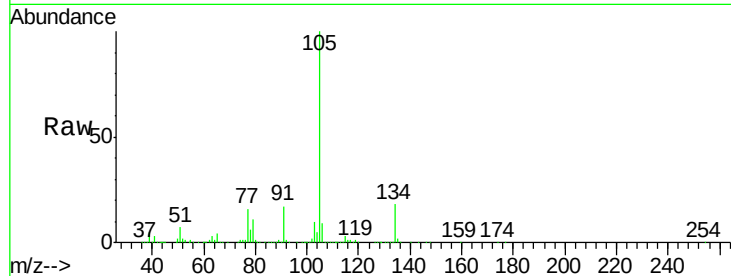
Ion Ratio Lower Upper

105 100

134 18.1 14.6 21.8

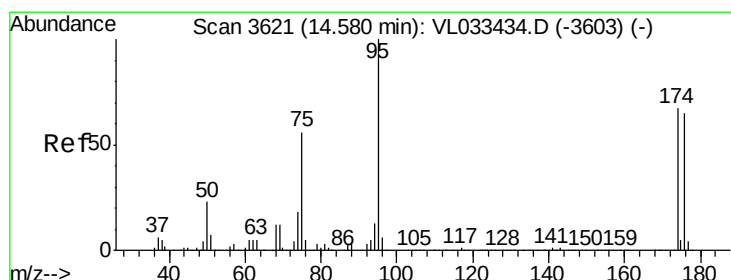
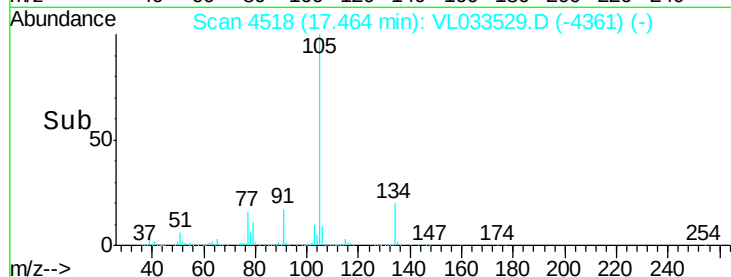
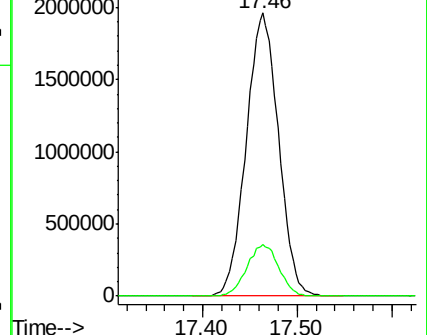
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.118 ppbv

RT: 14.58 min Scan# 3621

Delta R.T. 0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

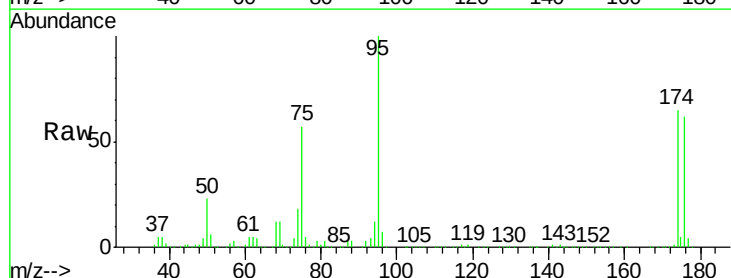
Tgt Ion: 95 Resp: 1416679

Ion Ratio Lower Upper

95 100

174 66.1 52.9 79.3

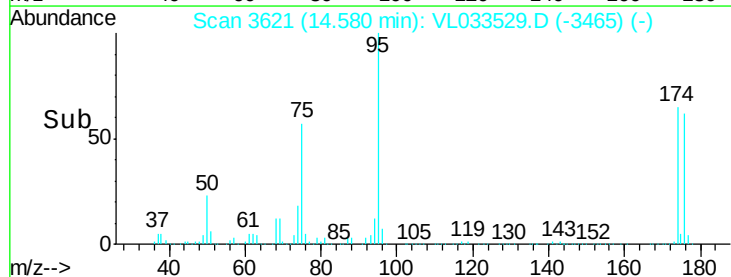
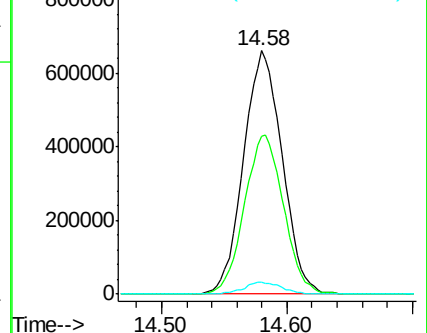
175 4.8 3.8 5.6

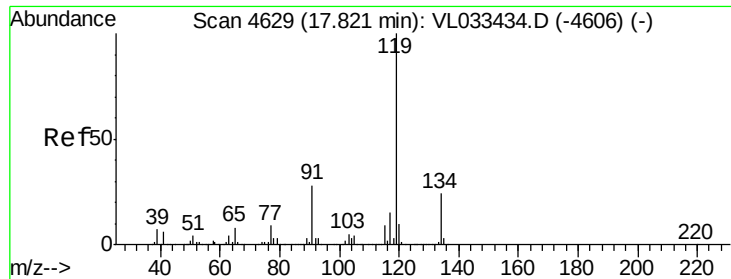


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





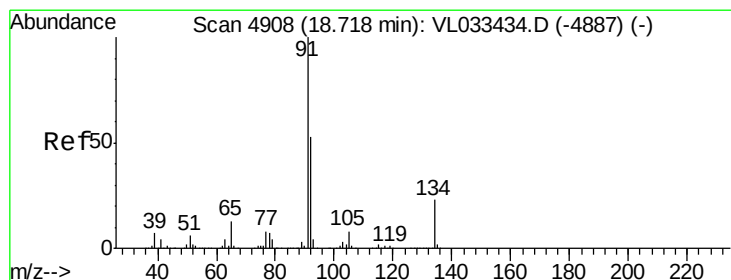
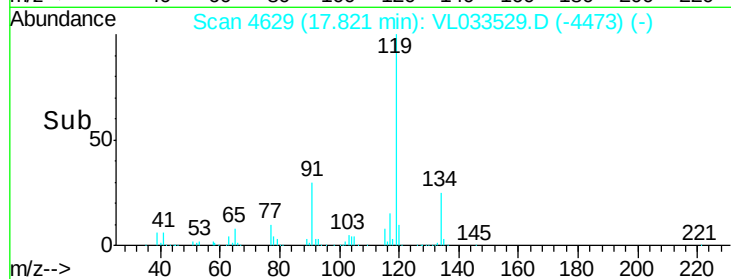
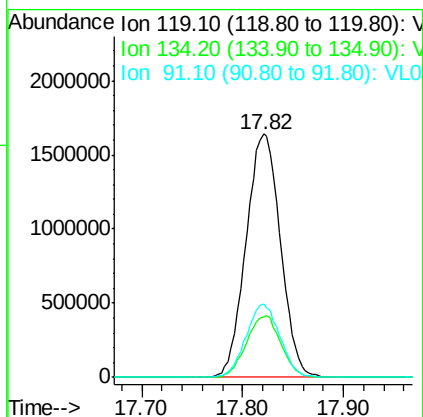
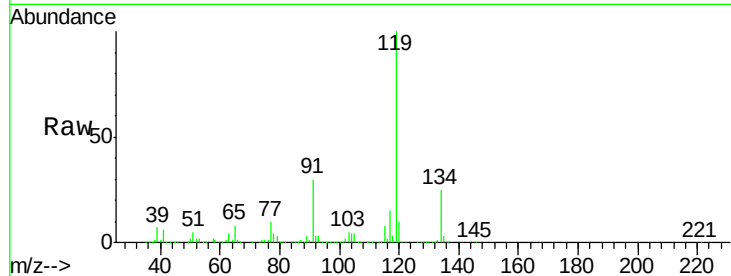
#69
 p-Isopropyltoluene
 Concen: 13.030 ppbv
 RT: 17.82 min Scan# 4629
 Delta R.T. 0.00 min
 Lab File: VL033529.D
 Acq: 30 Mar 2019 8:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.2	19.9	29.9
91	29.6	23.4	35.0

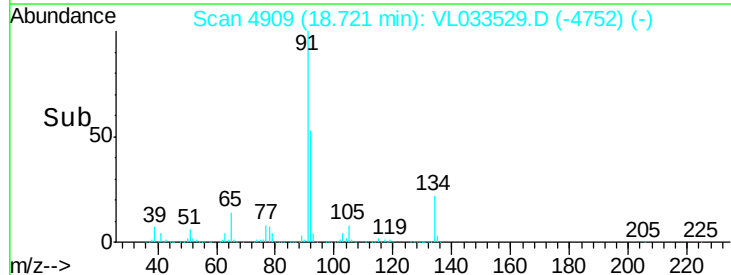
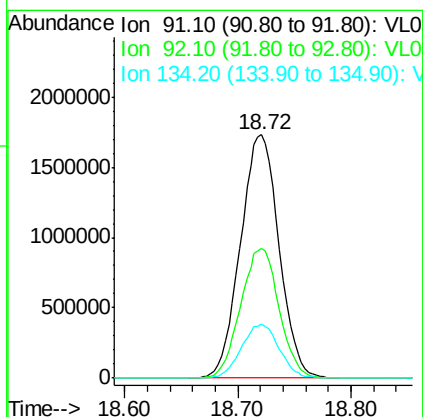
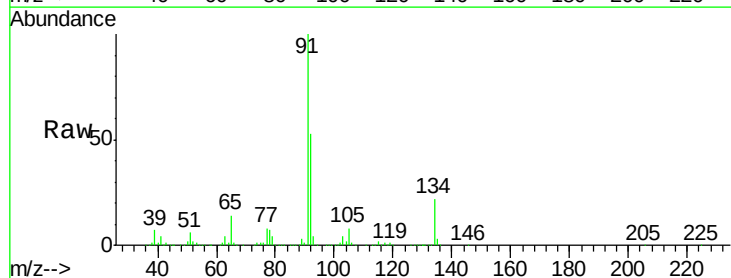
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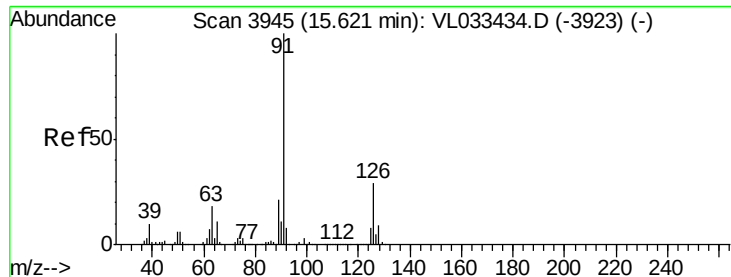
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#70
 n-Butylbenzene
 Concen: 12.999 ppbv
 RT: 18.72 min Scan# 4909
 Delta R.T. 0.00 min
 Lab File: VL033529.D
 Acq: 30 Mar 2019 8:53

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.2	42.6	64.0
134	21.8	17.5	26.3





#71

2-Chlorotoluene

Concen: 12.372 ppbv

RT: 15.62 min Scan# 3945

Delta R.T. 0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 2744381

Ion Ratio Lower Upper

91 100

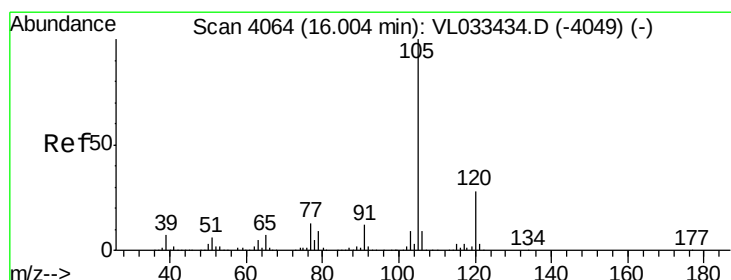
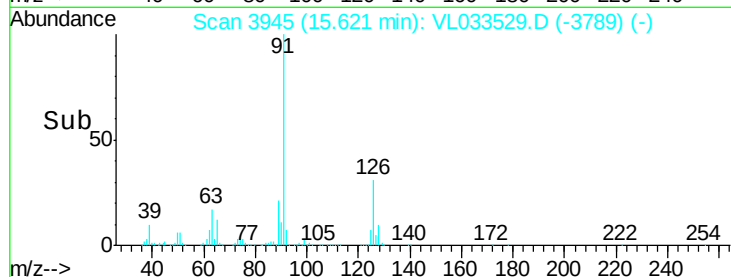
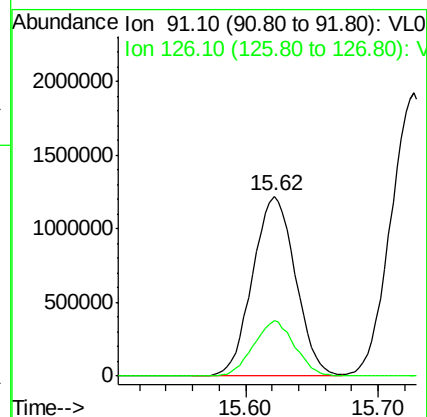
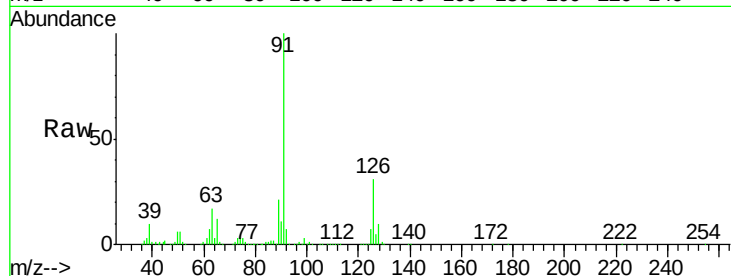
126 29.6 11.7 46.9

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#72

4-Ethyltoluene

Concen: 12.862 ppbv

RT: 16.00 min Scan# 4064

Delta R.T. 0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

Tgt Ion: 105 Resp: 2978269

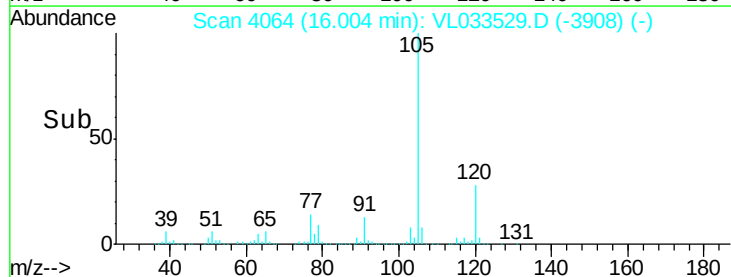
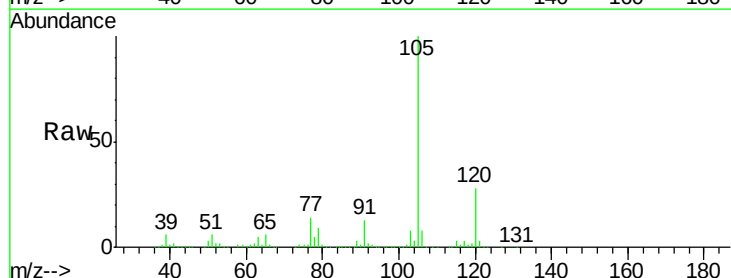
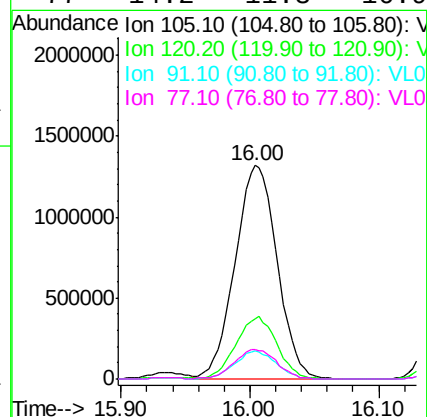
Ion Ratio Lower Upper

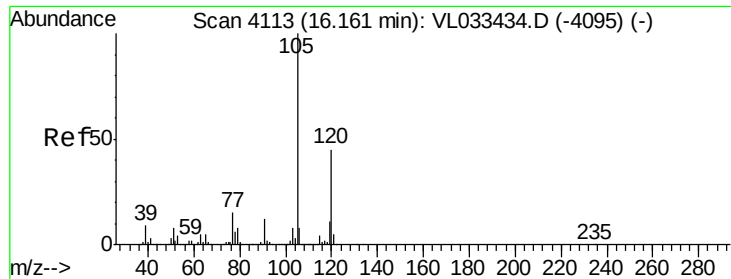
105 100

120 28.6 23.2 34.8

91 12.8 10.4 15.6

77 14.2 11.3 16.9





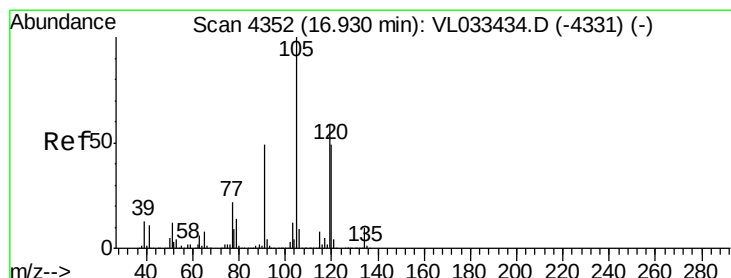
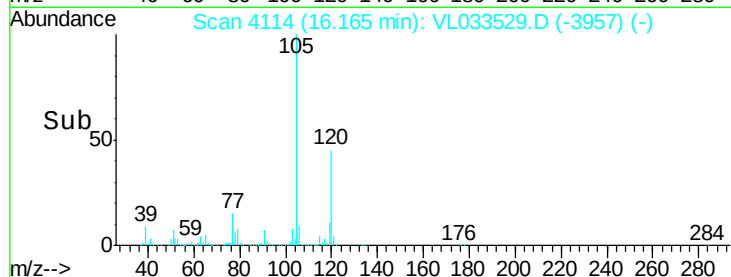
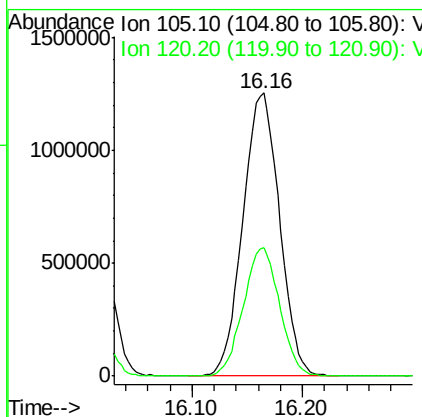
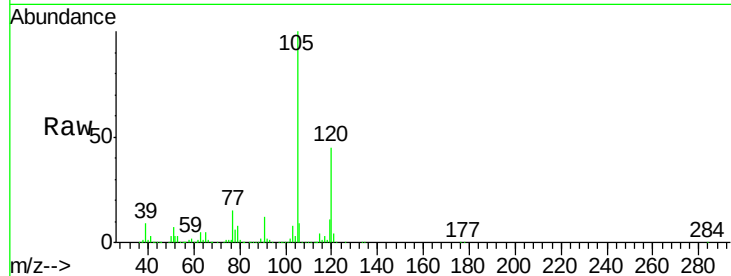
#73
 1,3,5-Trimethylbenzene
 Concen: 13.011 ppbv
 RT: 16.16 min Scan# 4114
 Delta R.T. 0.00 min
 Lab File: VL033529.D
 Acq: 30 Mar 2019 8:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:105 Resp: 2883165
 Ion Ratio Lower Upper
 105 100
 120 45.3 35.7 53.5

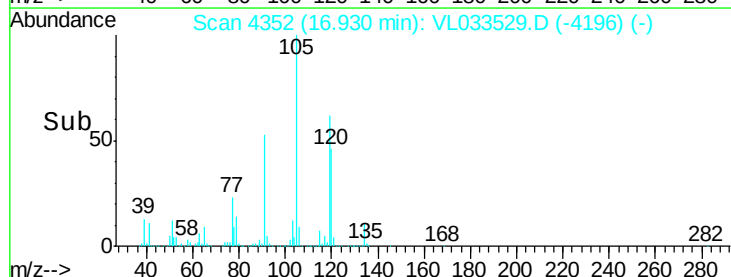
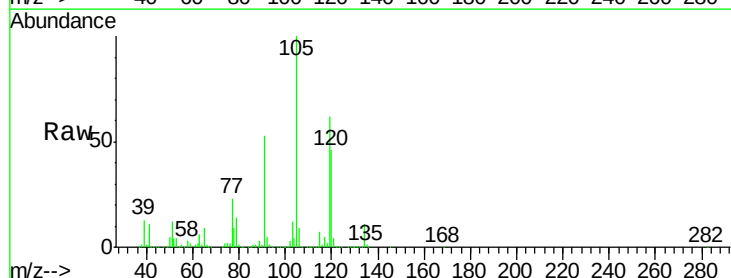
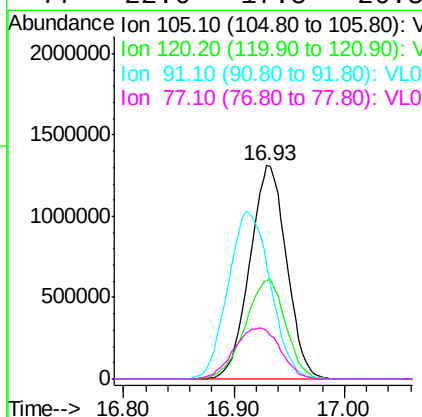
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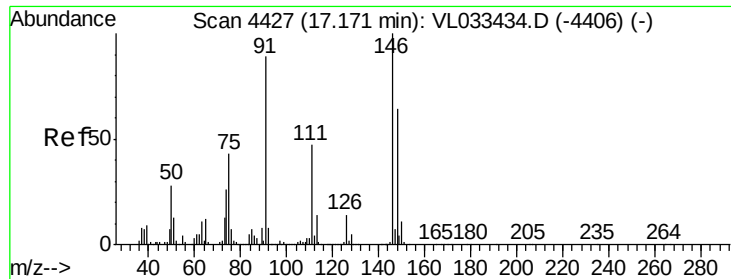
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#74
 1,2,4-Trimethylbenzene
 Concen: 12.749 ppbv
 RT: 16.93 min Scan# 4352
 Delta R.T. 0.00 min
 Lab File: VL033529.D
 Acq: 30 Mar 2019 8:53

Tgt Ion:105 Resp: 3028152
 Ion Ratio Lower Upper
 105 100
 120 46.1 39.0 58.6
 91 53.2 40.0 60.0
 77 22.6 17.5 26.3





#75

1,3-Dichlorobenzene

Concen: 12.135 ppbv

RT: 17.17 min Scan# 4427

Delta R.T. 0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 1781468

Ion Ratio Lower Upper

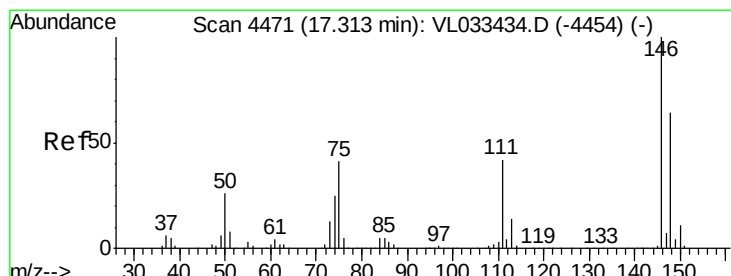
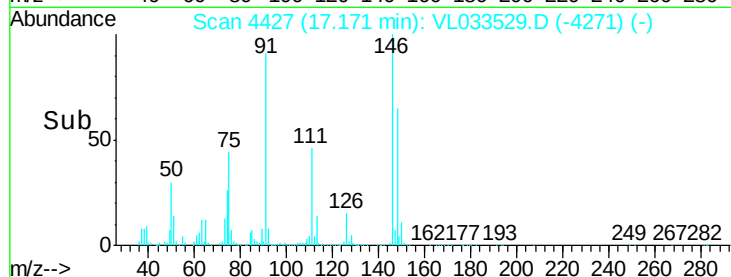
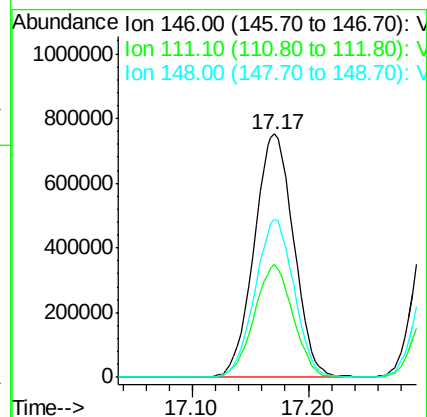
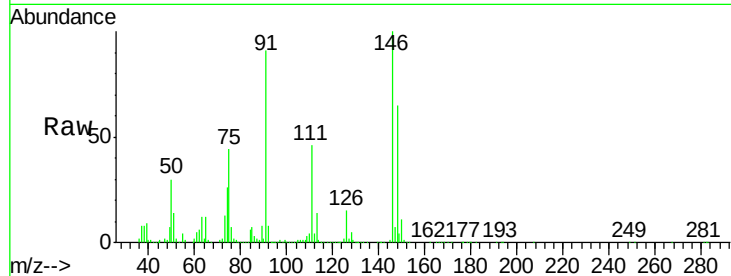
146 100

111 45.5 22.9 68.8

148 64.3 32.0 96.2

Manual Integrations
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#76

1,4-Dichlorobenzene

Concen: 12.369 ppbv

RT: 17.31 min Scan# 4471

Delta R.T. 0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

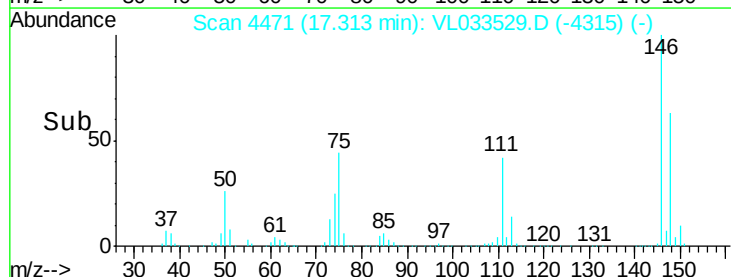
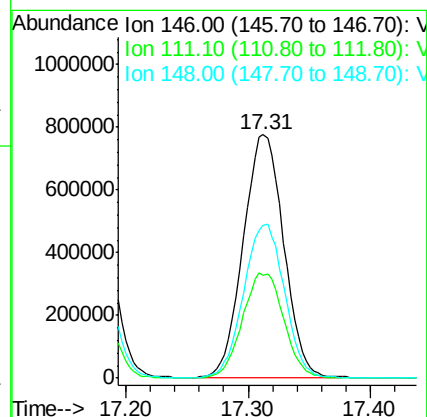
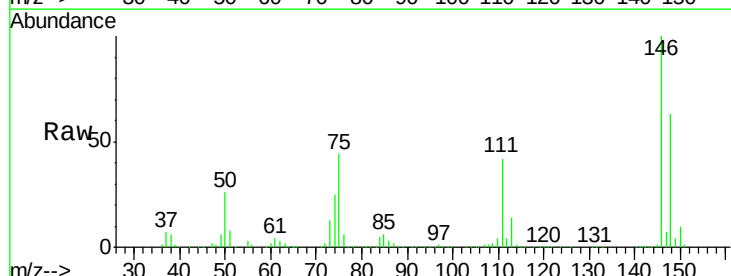
Tgt Ion:146 Resp: 1769139

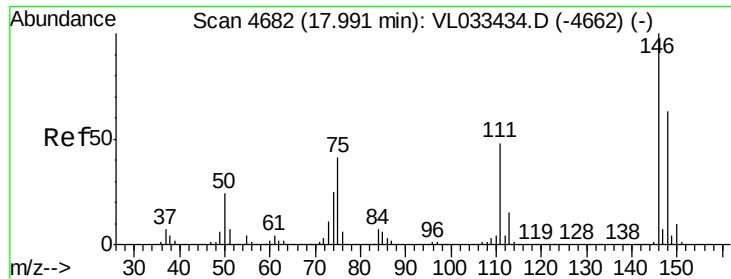
Ion Ratio Lower Upper

146 100

111 44.6 21.7 65.1

148 64.4 32.0 96.2





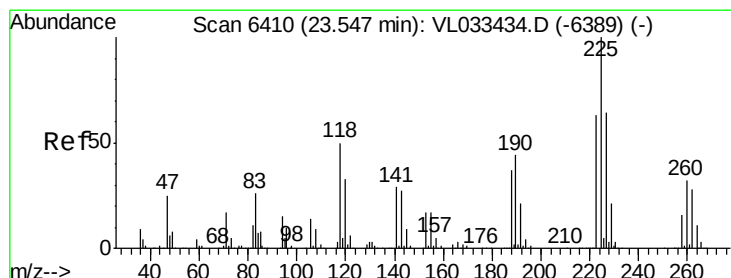
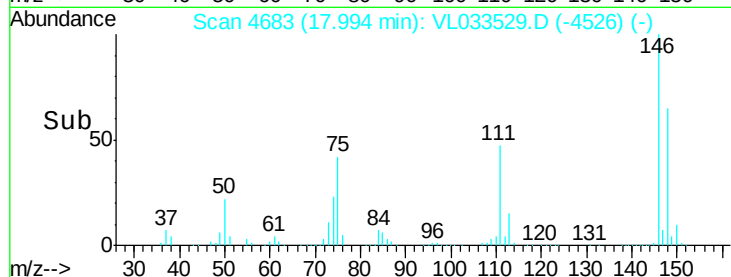
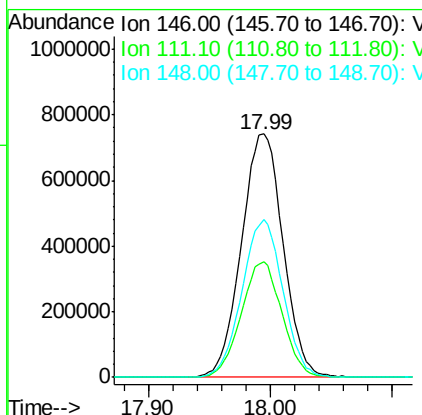
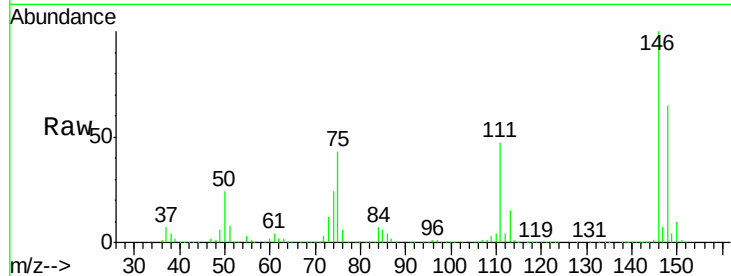
#77
 1,2-Dichlorobenzene
 Concen: 12.566 ppbv
 RT: 17.99 min Scan# 4683
 Delta R.T. 0.00 min
 Lab File: VL033529.D
 Acq: 30 Mar 2019 8:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:146 Resp: 1750306
 Ion Ratio Lower Upper
 146 100
 111 46.6 23.5 70.5
 148 63.7 32.0 96.0

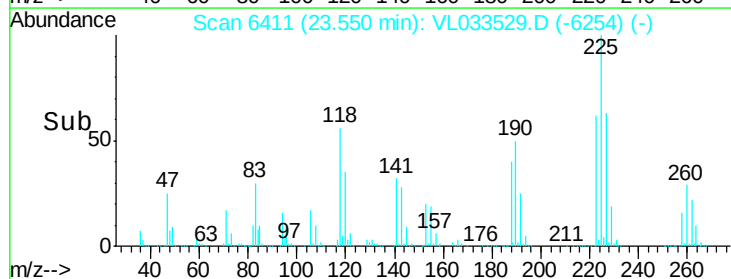
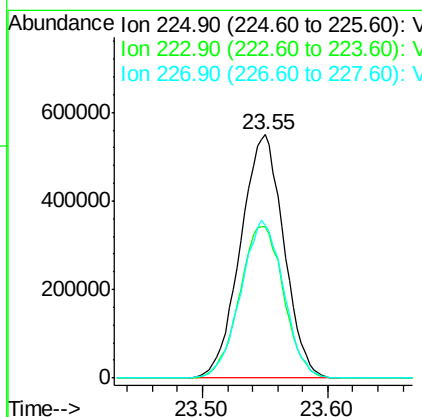
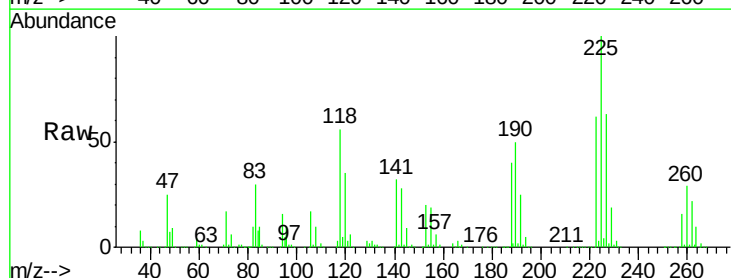
Manual Integrations
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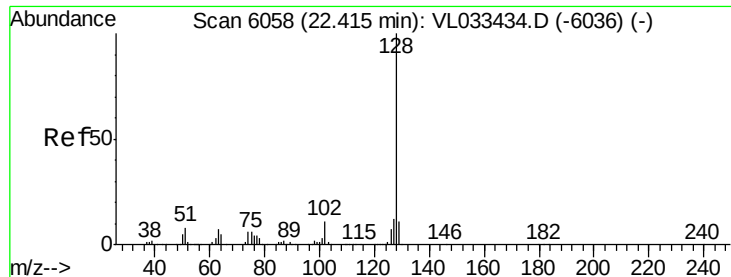
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#78
 Hexachloro-1,3-Butadiene
 Concen: 14.274 ppbv
 RT: 23.55 min Scan# 6411
 Delta R.T. 0.00 min
 Lab File: VL033529.D
 Acq: 30 Mar 2019 8:53

Tgt Ion:225 Resp: 1316080
 Ion Ratio Lower Upper
 225 100
 223 63.5 50.0 75.0
 227 64.0 51.1 76.7





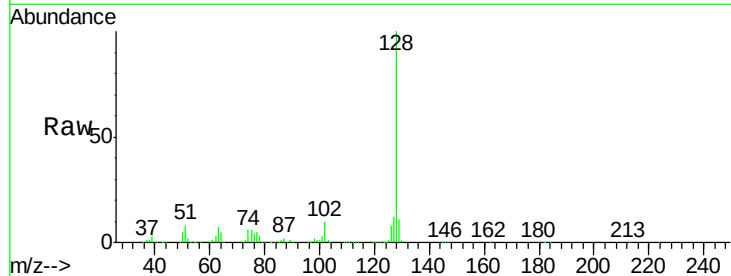
#79
Naphthalene
Concen: 14.273 ppbv
RT: 22.42 min Scan# 6058
Delta R.T. 0.00 min
Lab File: VL033529.D
Acq: 30 Mar 2019 8:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

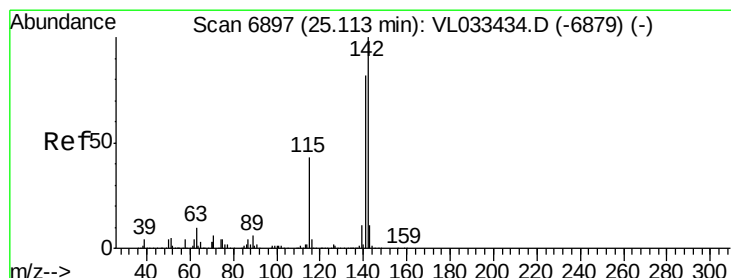
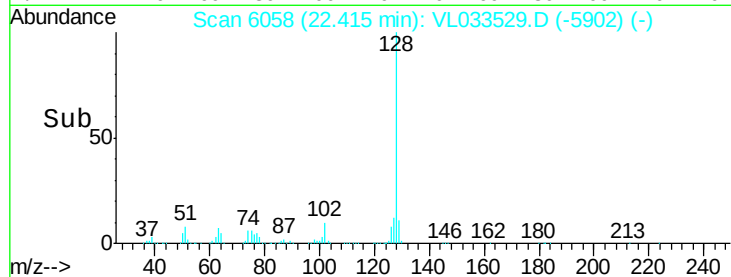
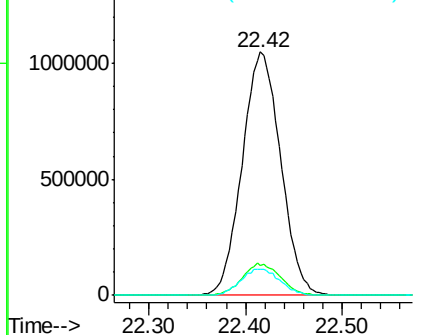
Tot Ion	Ratio	Lower	Upper
128	100		
127	12.2	9.8	14.8
129	10.7	8.6	12.8

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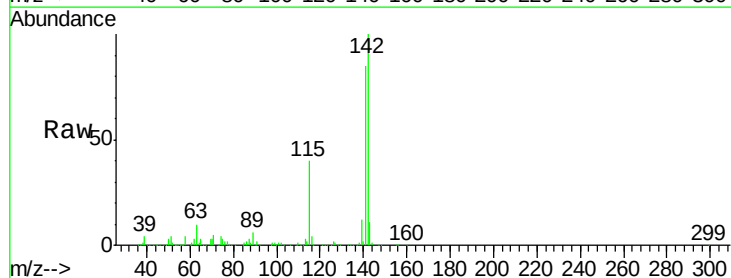


Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V

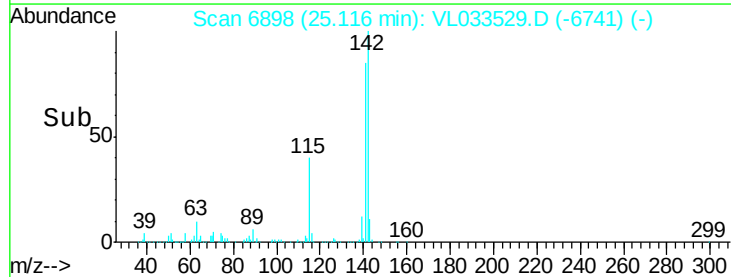
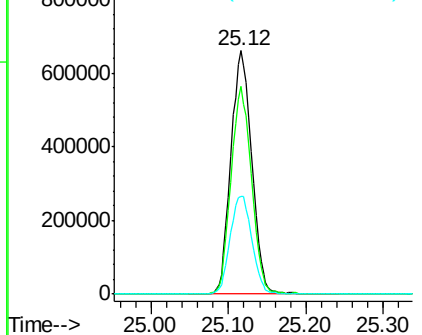


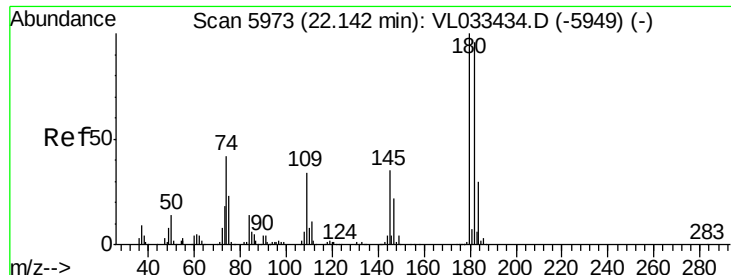
#80
Naphthalene, 2-methyl-
Concen: 17.890 ppbv
RT: 25.12 min Scan# 6898
Delta R.T. 0.00 min
Lab File: VL033529.D
Acq: 30 Mar 2019 8:53

Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.0	66.6	99.8
115	42.0	34.4	51.6



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: 13.269 ppbv
 RT: 22.14 min Scan# 5973
 Delta R.T. 0.00 min
 Lab File: VL033529.D
 Acq: 30 Mar 2019 8:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.5	77.0	115.4
184	30.4	24.6	36.8

Manual Integrations
 APPROVED

MMDadoda
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