

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL010419\
 Data File : VL033069.D
 Acq On : 4 Jan 2019 14:50
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL010419

Manual Integrations
 APPROVED

MMDadoda
 1/8/2019 12:01:14 AM

Quant Time: Jan 05 01:55:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL010419AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jan 0
 QLast Update : Fri Jan 04 16:09:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1189261	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3022286	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2909087m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2271659	10.19	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1549044	6.999	ppbv	99
3) Chlorodifluoromethane	3.01	51	1465693	10.888	ppbv	98
4) Chloromethane	3.17	50	823115	10.675	ppbv	97
5) Vinyl Chloride	3.29	62	829487	10.652	ppbv	99
6) Bromomethane	3.52	94	532739	10.070	ppbv	99
7) Chloroethane	3.60	64	310762	10.205	ppbv	99
8) Dichlorotetrafluoroethane	3.22	85	2025961	10.627	ppbv	99
9) Propene	3.04	41	629294	12.513	ppbv	99
10) Heptane	8.25	43	1418891	9.909	ppbv	99
11) Trichlorofluoromethane	4.00	101	2098243	8.579	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1342619	8.682	ppbv	99
13) Ethanol	3.65	45	179868	8.969	ppbv	95
14) Bromoethene	3.79	108	670933	9.823	ppbv	98
15) Acetone	3.90	43	1397293	8.488	ppbv	99
16) 1,3-Butadiene	3.36	39	665483	10.721	ppbv	99
17) tert-Butyl alcohol	4.35	59	378748	10.862	ppbv	99
18) 1,1-Dichloroethene	4.35	96	661698	9.289	ppbv	88
19) Isopropyl Alcohol	4.02	45	1149510	10.144	ppbv	# 98
20) Methylene Chloride	4.41	84	548322	7.990	ppbv	98
21) Allyl Chloride	4.48	41	999028	9.794	ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	603970	8.554	ppbv	99
23) Vinyl Acetate	5.16	43	2010156	9.599	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1528115	8.595	ppbv	100
25) Ethyl Acetate	5.77	43	2446580	8.793	ppbv	99
26) Hexane	5.78	57	1125247	8.589	ppbv	98
27) Carbon Disulfide	4.62	76	1523724	9.430	ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	1941868	9.496	ppbv	100
29) Chloroform	5.85	83	1871732	8.383	ppbv	99
30) Cyclohexane	7.25	84	987929	10.113	ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	1197861	9.846	ppbv	98
32) 1,1,1-Trichloroethane	6.62	97	1950817	8.609	ppbv	99
34) 2-Butanone	5.33	43	1551795	8.837	ppbv	100
35) Carbon Tetrachloride	7.14	117	2103626	8.103	ppbv	99
36) Benzene	7.01	78	2338801	9.447	ppbv	99
37) 1,2-Dichloroethane	6.42	62	1454120	8.412	ppbv	99
38) Trichloroethene	7.97	130	987445	9.695	ppbv	98
39) 1,2-Dichloropropane	7.74	63	882180	9.485	ppbv	97
40) 1,4-Dioxane	7.96	88	308995	8.752	ppbv	89
41) Tetrahydrofuran	6.15	42	892365	9.984	ppbv	100
42) Bromodichloromethane	7.92	83	2089273	8.799	ppbv	100
43) Methyl Methacrylate	8.14	69	954557	10.276	ppbv	100

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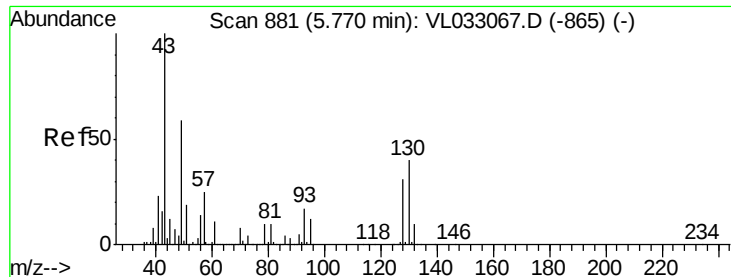
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 QLast Update : Fri Jan 04 16:09:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3914628	9.337	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	1350163	11.676	ppbv	98
46) cis-1,3-Dichloropropene	8.84	75	1529256	11.587	ppbv	99
47) 1,1,2-Trichloroethane	9.62	97	995796	9.165	ppbv	100
48) Dibromochloromethane	10.46	129	1872365	9.753	ppbv	100
49) Bromoform	13.21	173	1574442	9.387	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	2243012	10.080	ppbv	98
51) 2-Hexanone	10.27	43	1750151	10.870	ppbv #	100
52) Tetrachloroethene	11.38	164	892567	10.200	ppbv	98
53) Toluene	9.95	91	2789061	10.512	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1603890	10.245	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.28	131	1312836	8.734	ppbv	98
57) Chlorobenzene	12.31	112	2196674	9.047	ppbv	96
58) Ethyl Benzene	12.87	91	3805059	10.360	ppbv	99
59) m/p-Xylene	13.16	91	6410784m	18.868	ppbv	
60) o-Xylene	13.86	91	3102003	9.326	ppbv	99
61) Styrene	13.69	104	2354418	11.093	ppbv	100
62) Isopropylbenzene	14.83	105	4445256	9.391	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	2094020	8.475	ppbv	100
64) n-propylbenzene	15.73	120	1135350	9.441	ppbv	100
65) tert-Butylbenzene	16.92	119	3902460	9.307	ppbv	99
66) Benzyl Chloride	17.16	91	2407486	10.074	ppbv	100
67) sec-Butylbenzene	17.46	105	5437956	9.062	ppbv	100
69) p-Isopropyltoluene	17.82	119	4509668	9.259	ppbv	100
70) n-Butylbenzene	18.72	91	4551926	9.297	ppbv	100
71) 2-Chlorotoluene	15.62	91	3295968	9.818	ppbv	100
72) 4-Ethyltoluene	16.01	105	3642874	9.966	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	3436932	9.529	ppbv	98
74) 1,2,4-Trimethylbenzene	16.93	105	3506904	8.779	ppbv	96
75) 1,3-Dichlorobenzene	17.17	146	1980071	8.421	ppbv	100
76) 1,4-Dichlorobenzene	17.32	146	1949282	9.101	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1885945	8.907	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	1467023	9.020	ppbv	100
79) Naphthalene	22.42	128	3481142	10.346	ppbv	98
80) Naphthalene, 2-methyl-	25.12	142	1547973	15.161	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	1633325	10.048	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.00 min

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Tot Ion: 49 Resp: 1189261

Ion Ratio Lower Upper

49 100

128 52.7 26.2 78.5

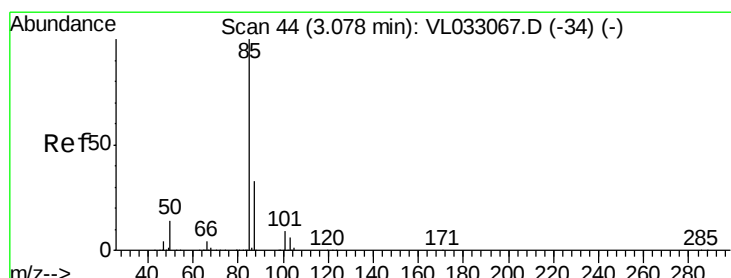
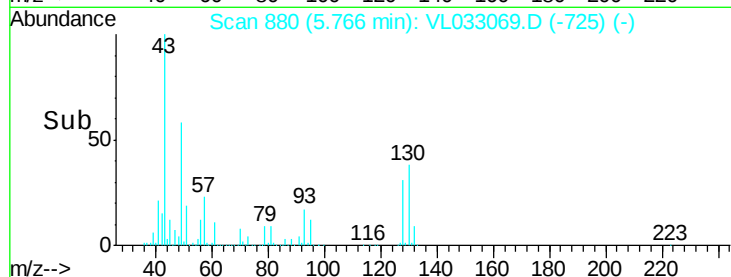
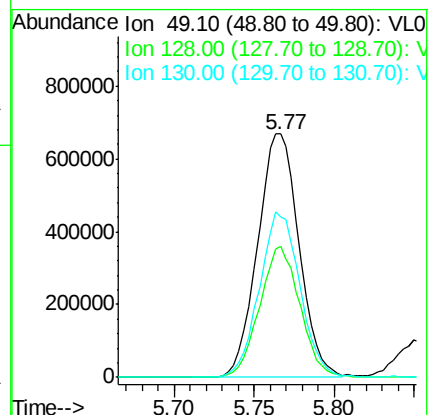
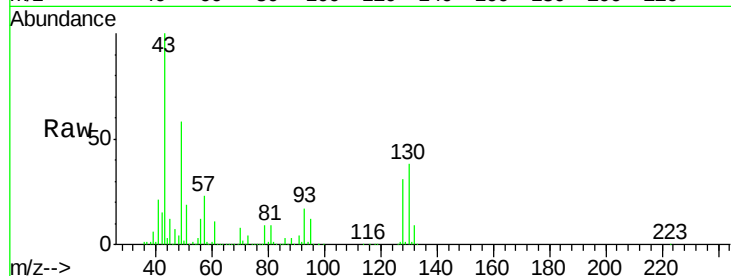
130 66.6 33.6 100.6

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 6.999 ppbv

RT: 3.08 min Scan# 44

Delta R.T. -0.00 min

Lab File: VL033069.D

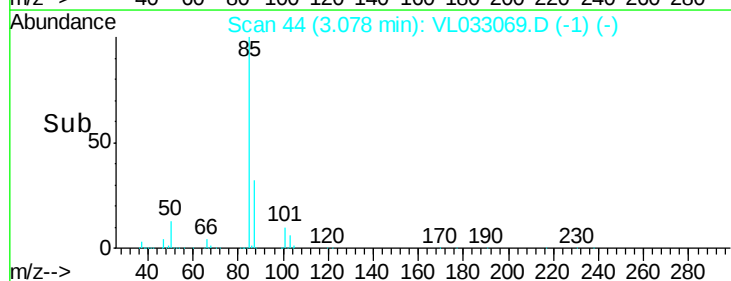
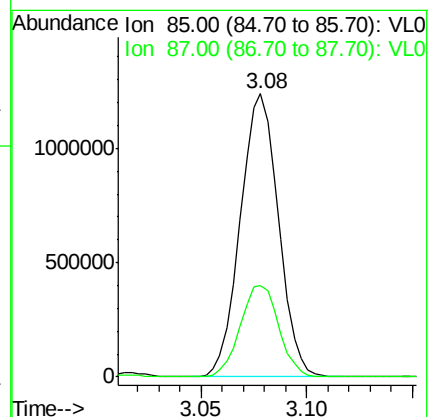
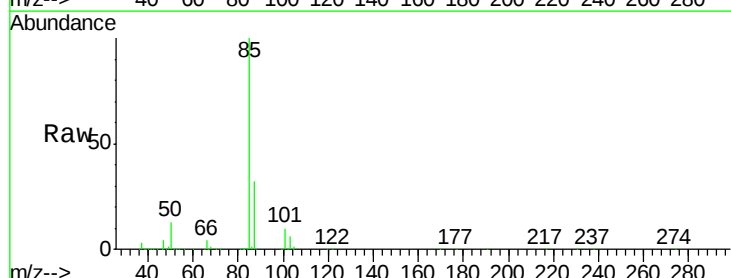
Acq: 4 Jan 2019 14:50

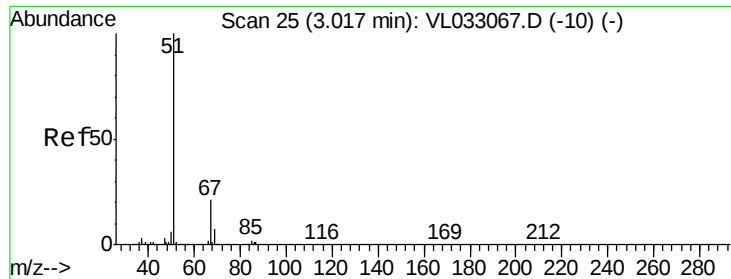
Tgt Ion: 85 Resp: 1549044

Ion Ratio Lower Upper

85 100

87 32.1 26.3 39.5





#3

Chlorodifluoromethane

Concen: 10.888 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL033069.D

Acq: 4 Jan 2019 14:50

Tot Ion: 51 Resp: 1465693

Ion Ratio Lower Upper

51 100

67 19.5 16.3 24.5

Instrument :

MSVOA_L

ClientSampleId :

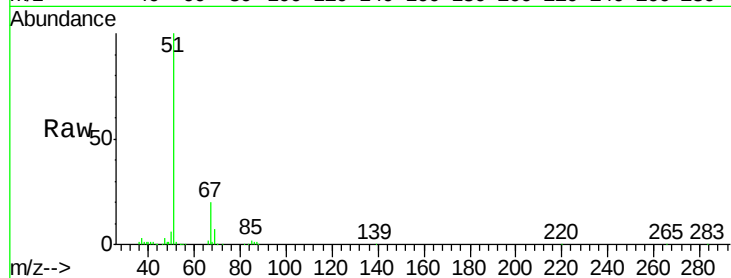
ICVVL010419

Manual Integrations

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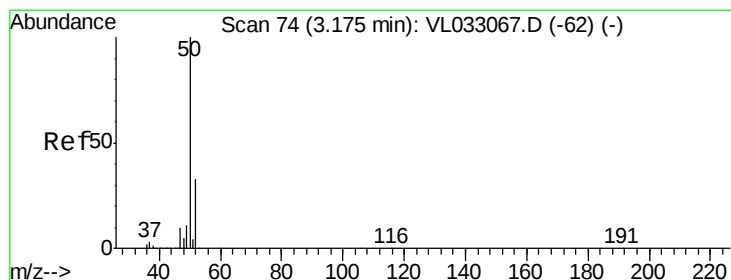
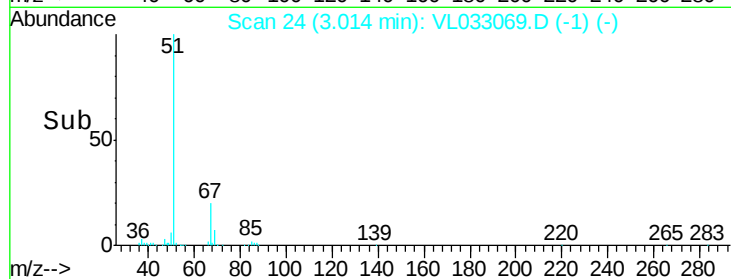
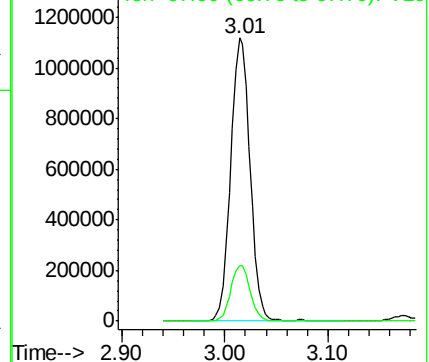
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 10.675 ppbv

RT: 3.17 min Scan# 73

Delta R.T. -0.00 min

Lab File: VL033069.D

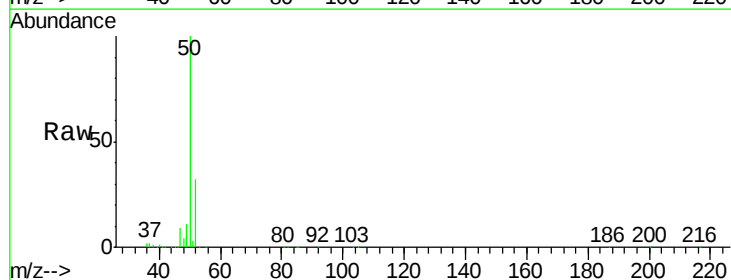
Acq: 4 Jan 2019 14:50

Tgt Ion: 50 Resp: 823115

Ion Ratio Lower Upper

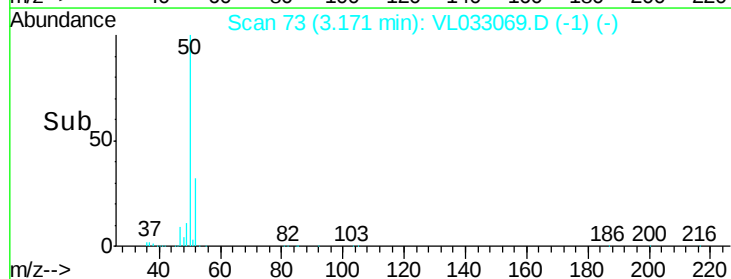
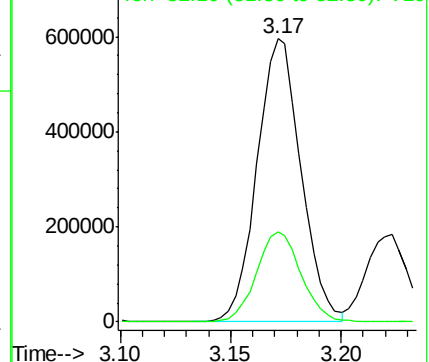
50 100

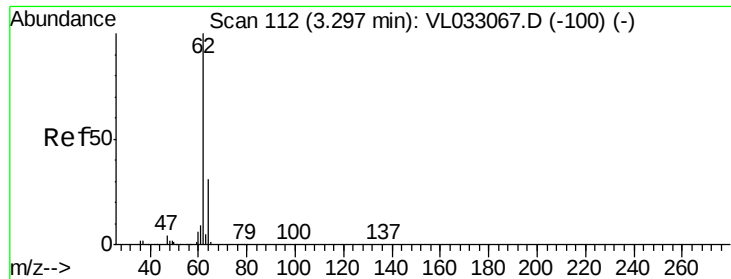
52 31.6 26.9 40.3



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 10.652 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033069.D

Acq: 4 Jan 2019 14:50

Instrument :

MSVOA_L

ClientSampleId :

ICVVL010419

Tot Ion: 62 Resp: 829487

Ion Ratio Lower Upper

62 100

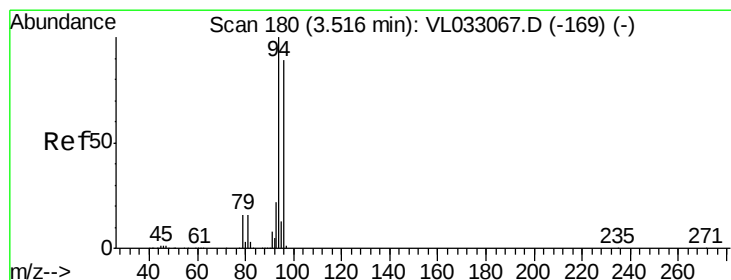
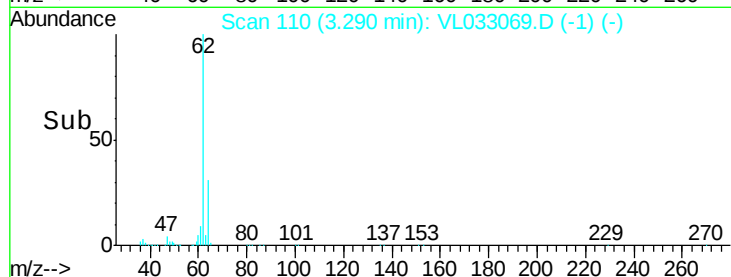
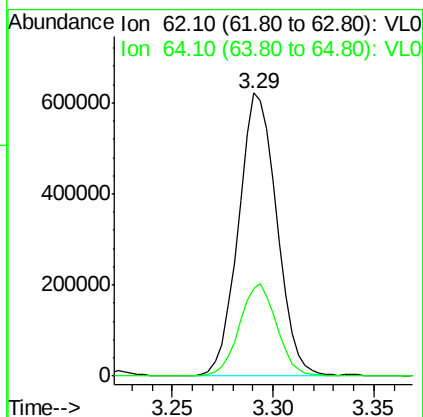
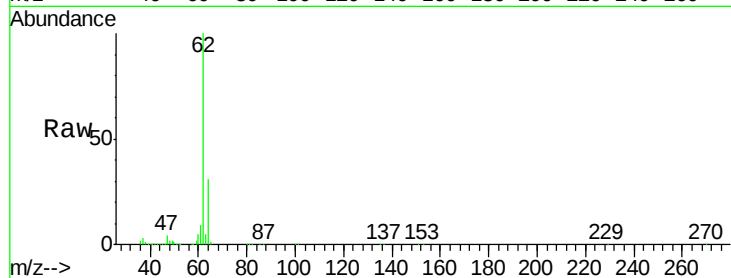
64 30.9 25.3 37.9

Manual Integrations

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#6

Bromomethane

Concen: 10.070 ppbv

RT: 3.52 min Scan# 180

Delta R.T. -0.00 min

Lab File: VL033069.D

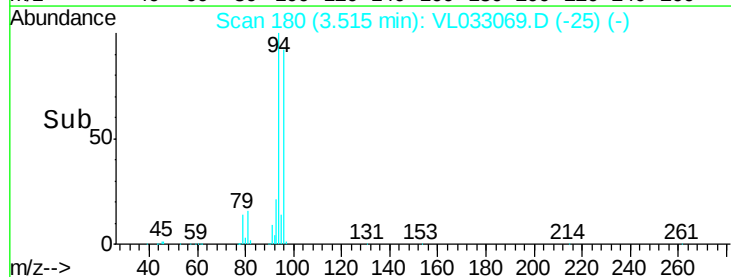
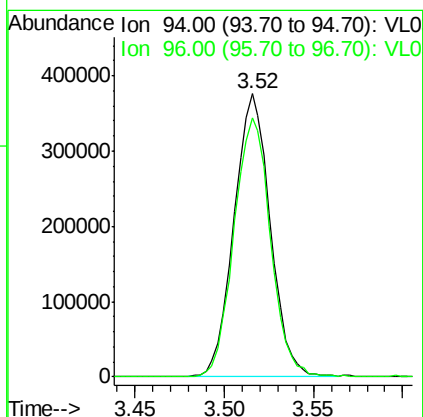
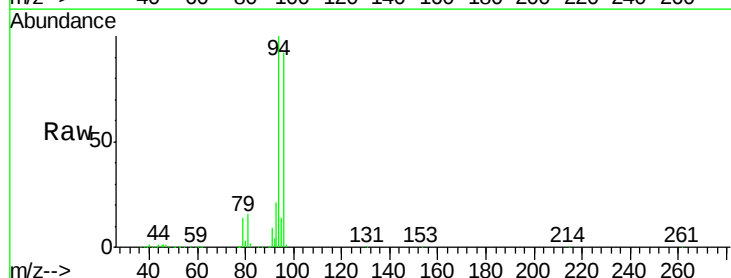
Acq: 4 Jan 2019 14:50

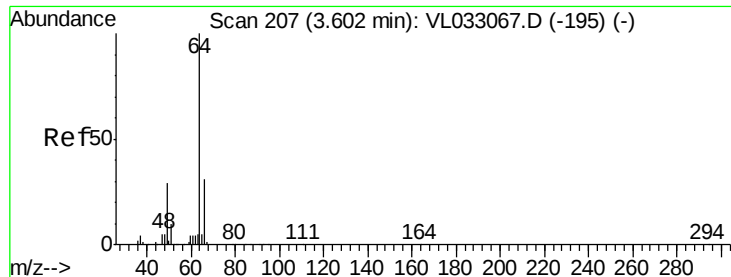
Tgt Ion: 94 Resp: 532739

Ion Ratio Lower Upper

94 100

96 91.5 72.8 109.2





#7

Chloroethane

Concen: 10.205 ppbv

RT: 3.60 min Scan# 207

Delta R.T. 0.00 min

Lab File: VL033069.D

Acq: 4 Jan 2019 14:50

Instrument :

MSVOA_L

ClientSampleId :

ICVVL010419

Tot Ion: 64 Resp: 310762

Ion Ratio Lower Upper

64 100

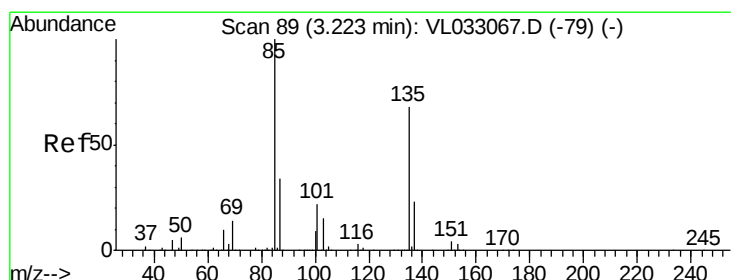
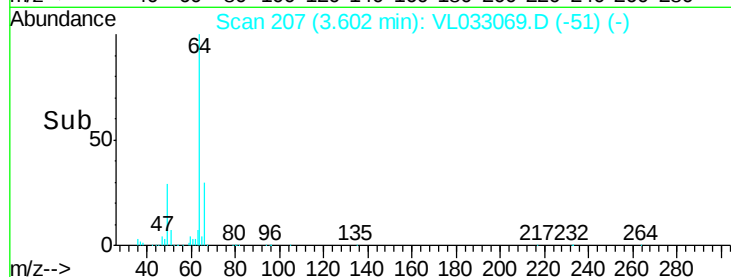
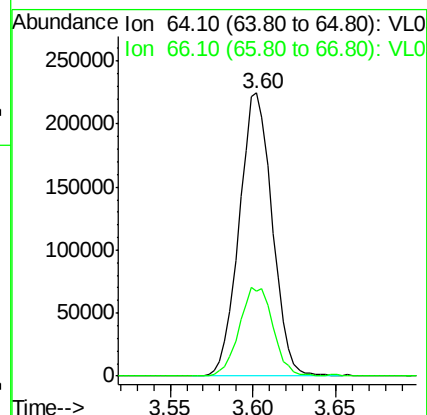
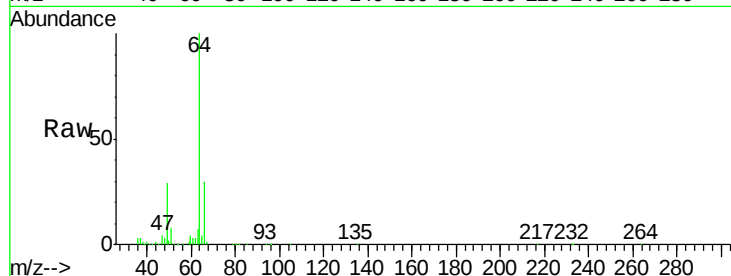
66 29.9 23.7 35.5

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 10.627 ppbv

RT: 3.22 min Scan# 89

Delta R.T. 0.00 min

Lab File: VL033069.D

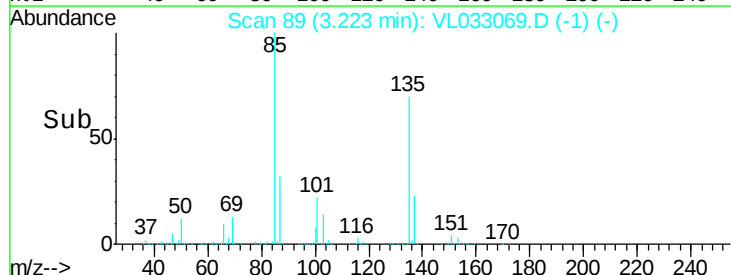
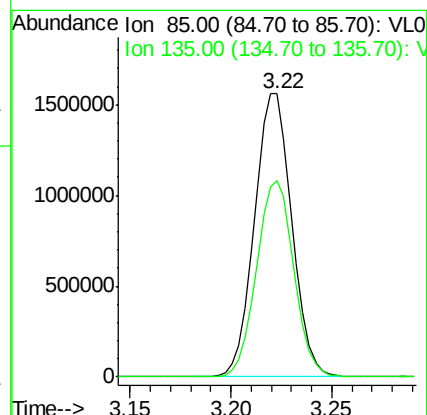
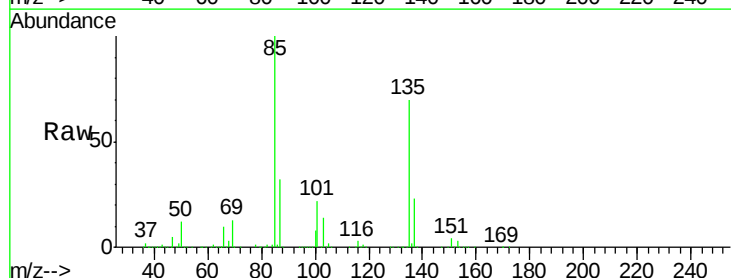
Acq: 4 Jan 2019 14:50

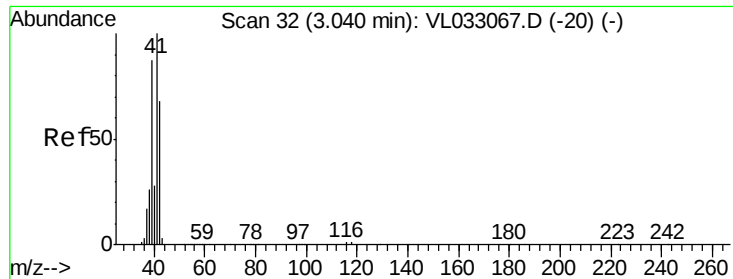
Tgt Ion: 85 Resp: 2025961

Ion Ratio Lower Upper

85 100

135 69.3 54.9 82.3





#9

Propene

Concen: 12.513 ppbv

RT: 3.04 min Scan# 31

Delta R.T. -0.00 min

Lab File: VL033069.D

Acq: 4 Jan 2019 14:50

Instrument :

MSVOA_L

ClientSampleId :

ICVVL010419

Tot Ion: 41 Resp: 629294

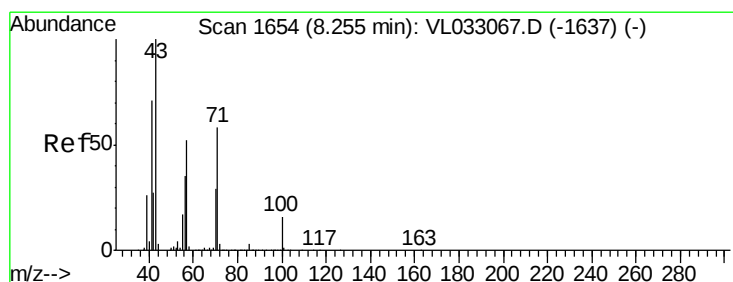
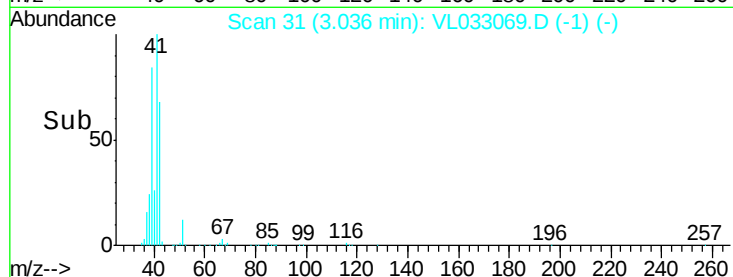
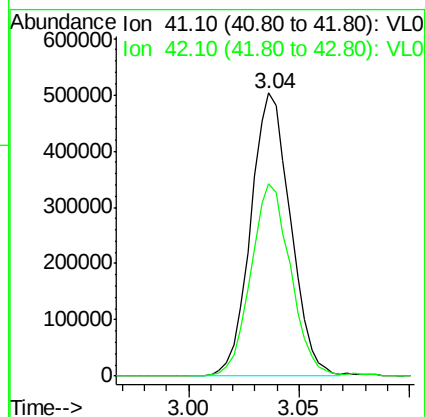
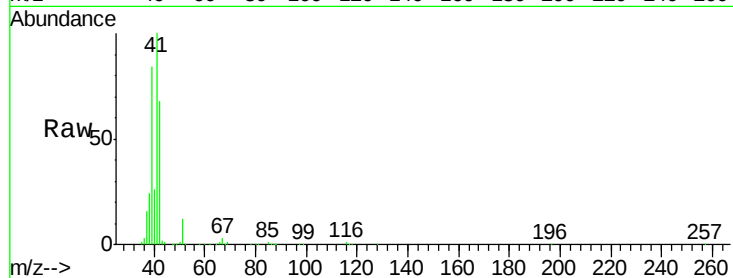
Ion Ratio Lower Upper

41 100

42 68.5 55.3 82.9

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#10

Heptane

Concen: 9.909 ppbv

RT: 8.25 min Scan# 1652

Delta R.T. -0.00 min

Lab File: VL033069.D

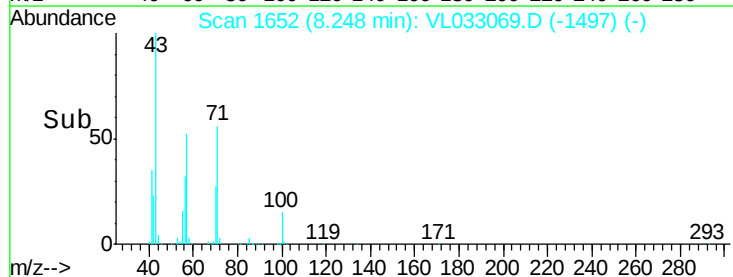
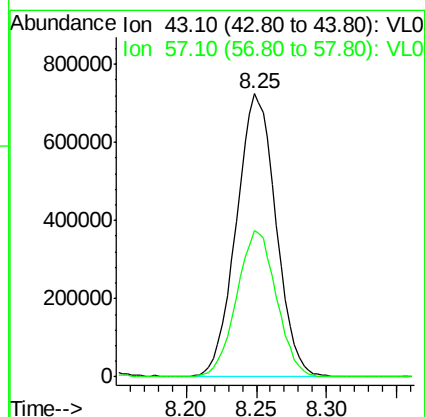
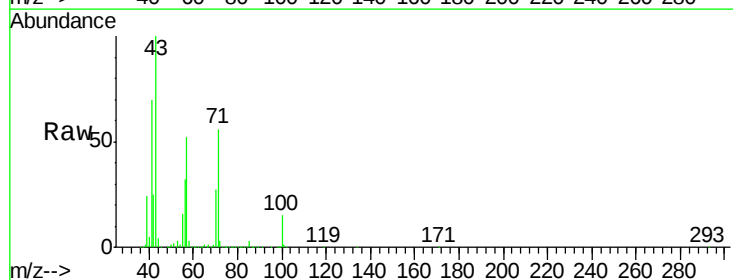
Acq: 4 Jan 2019 14:50

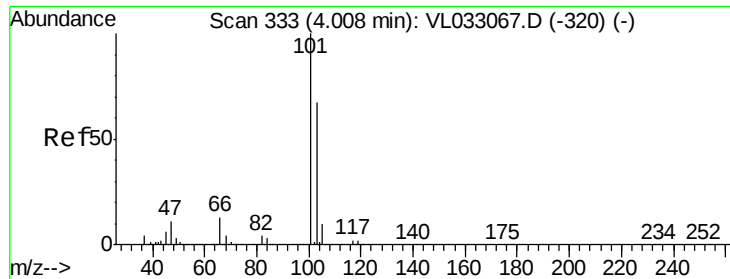
Tgt Ion: 43 Resp: 1418891

Ion Ratio Lower Upper

43 100

57 51.9 41.9 62.9





#11

Trichlorofluoromethane

Concen: 8.579 ppbv

RT: 4.00 min Scan# 332

Delta R.T. -0.00 min

Lab File: VL033069.D

Acq: 4 Jan 2019 14:50

Instrument :

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ClientSampleId :

ICVVL010419

Tot Ion:101 Resp: 2098243

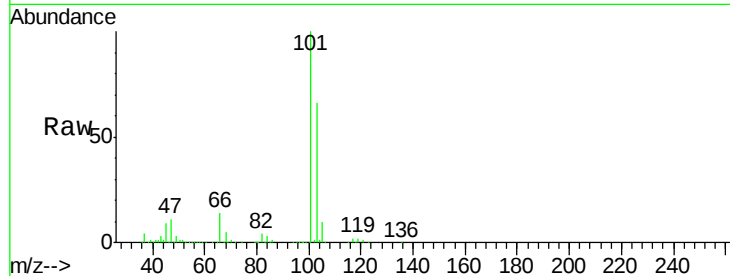
Ion Ratio Lower Upper

101 100

103 65.6 51.7 77.5

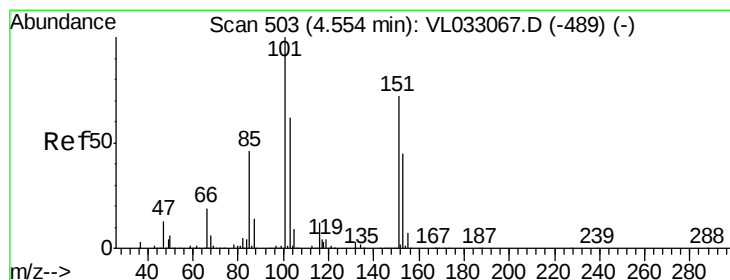
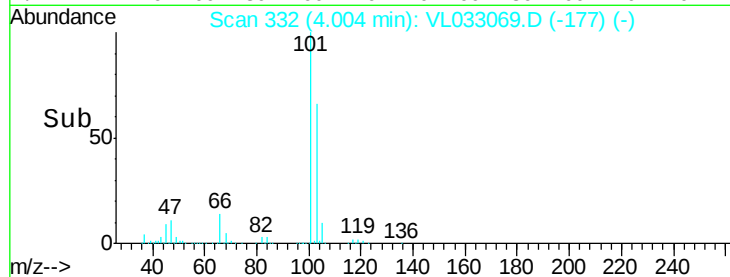
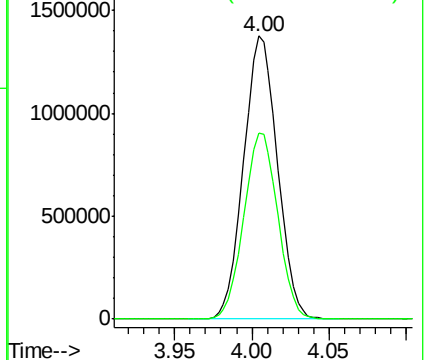
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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 8.682 ppbv

RT: 4.55 min Scan# 502

Delta R.T. -0.00 min

Lab File: VL033069.D

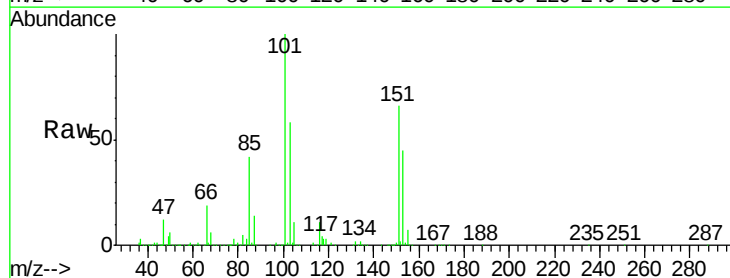
Acq: 4 Jan 2019 14:50

Tgt Ion:101 Resp: 1342619

Ion Ratio Lower Upper

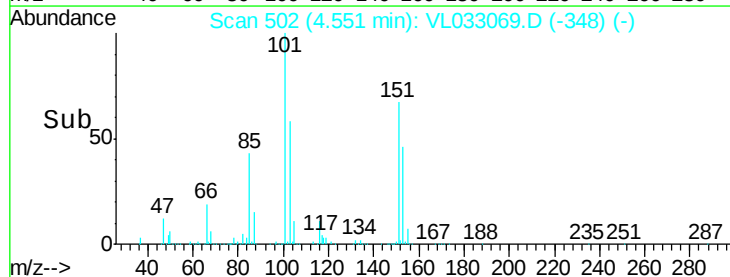
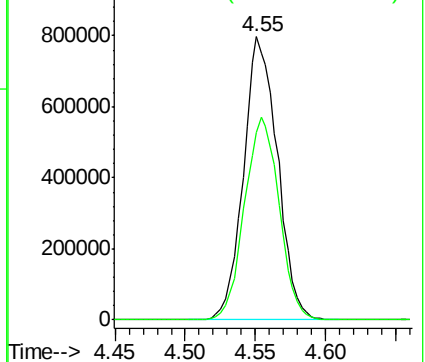
101 100

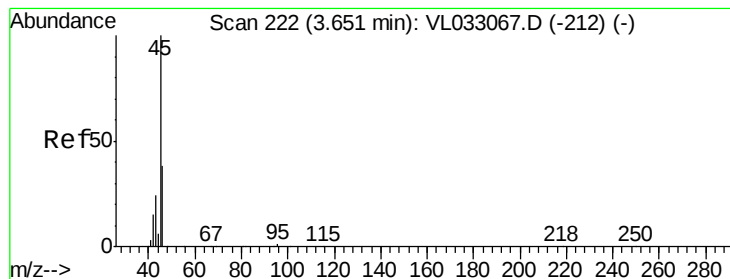
151 73.4 58.3 87.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 8.969 ppbv

RT: 3.65 min Scan# 221

Delta R.T. -0.00 min

Lab File: VL033069.D

Acq: 4 Jan 2019 14:50

Instrument :

MSVOA_L

ClientSampleId :

ICVVL010419

Tot Ion: 45 Resp: 179868

Ion Ratio Lower Upper

45 100

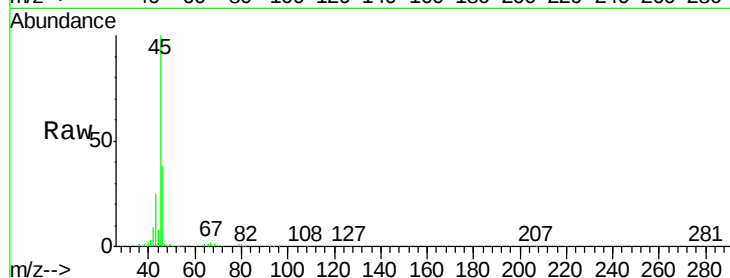
46 37.2 13.8 55.2

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

3.65

100000

80000

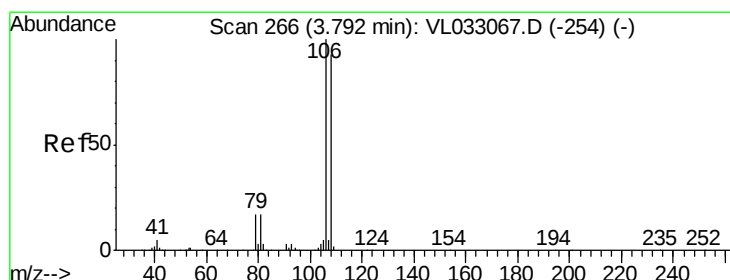
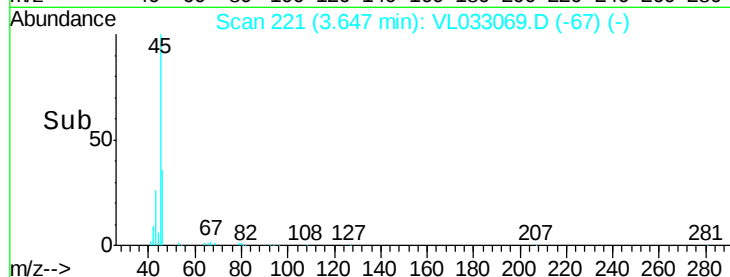
60000

40000

20000

0

Time-->



#14

Bromoethene

Concen: 9.823 ppbv

RT: 3.79 min Scan# 265

Delta R.T. -0.00 min

Lab File: VL033069.D

Acq: 4 Jan 2019 14:50

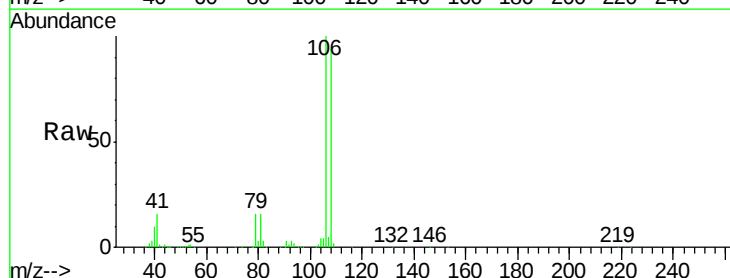
Tgt Ion: 108 Resp: 670933

Ion Ratio Lower Upper

108 100

106 106.3 86.4 129.6

79 16.8 14.3 21.5



Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0

3.79

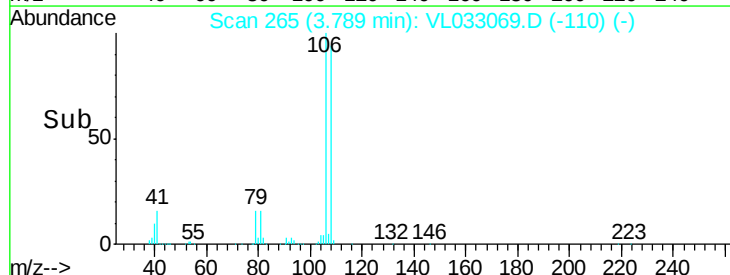
600000

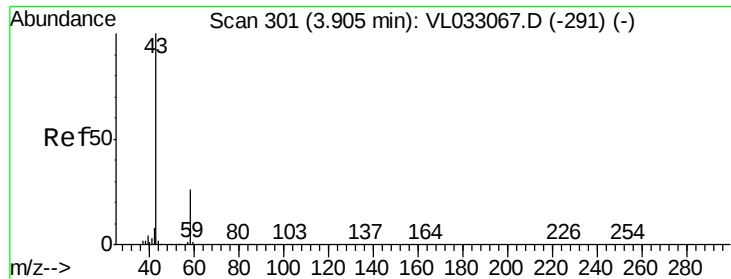
400000

200000

0

Time-->





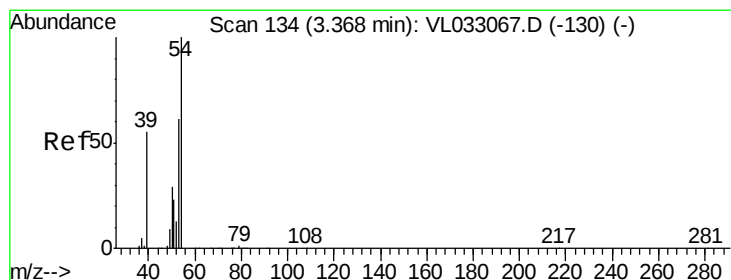
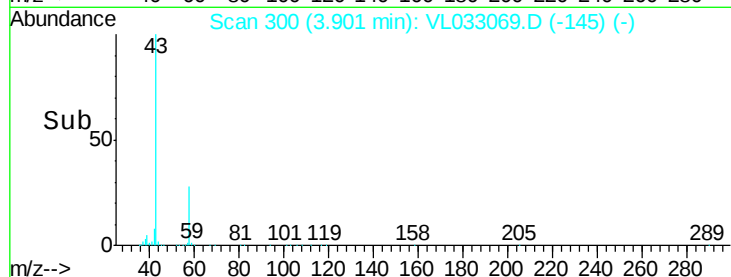
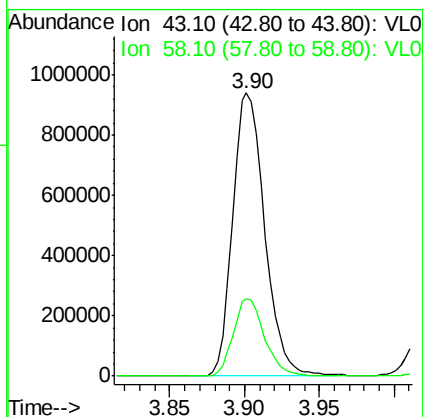
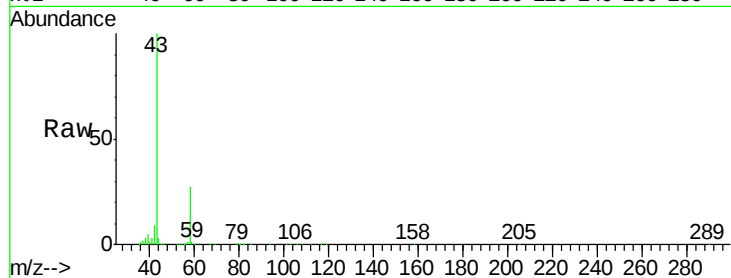
#15
Acetone
Concen: 8.488 ppbv
RT: 3.90 min Scan# 300
Delta R.T. -0.00 min
Lab File: VL033069.D
Acq: 4 Jan 2019 14:50

Instrument :
MSVOA_L
ClientSampleId :
ICVVL010419

Tot Ion: 43 Resp: 1397293
Ion Ratio Lower Upper
43 100
58 26.8 21.1 31.7

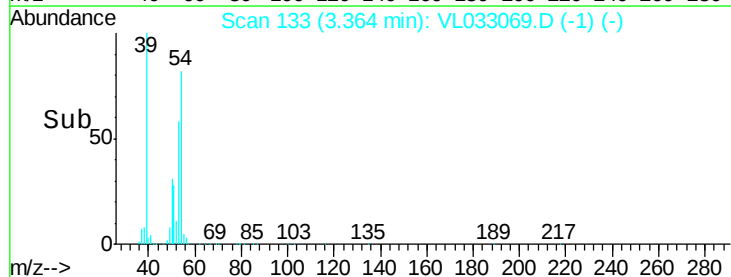
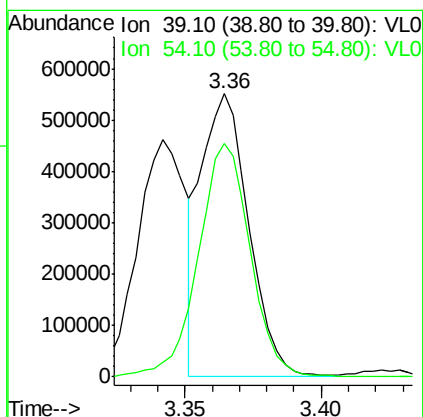
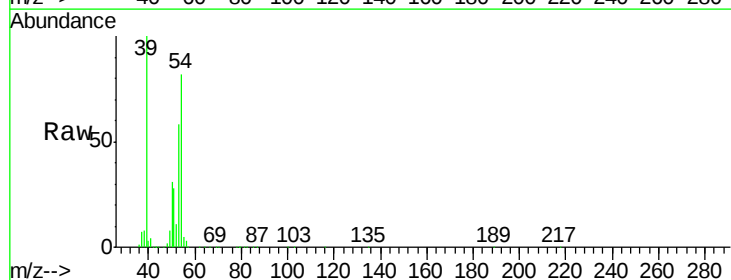
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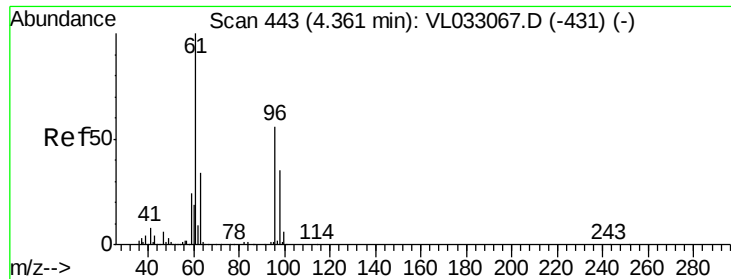
MMDadoda
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#16
1,3-Butadiene
Concen: 10.721 ppbv
RT: 3.36 min Scan# 133
Delta R.T. -0.00 min
Lab File: VL033069.D
Acq: 4 Jan 2019 14:50

Tgt Ion: 39 Resp: 665483
Ion Ratio Lower Upper
39 100
54 90.9 73.7 110.5





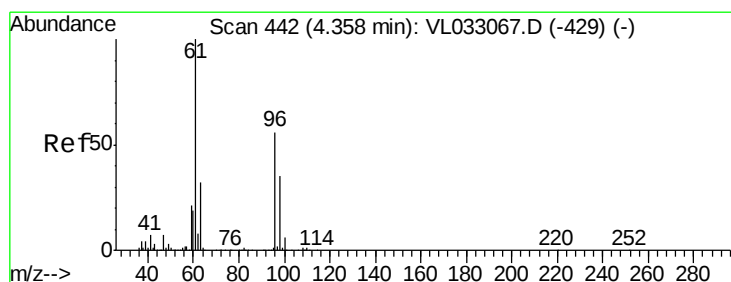
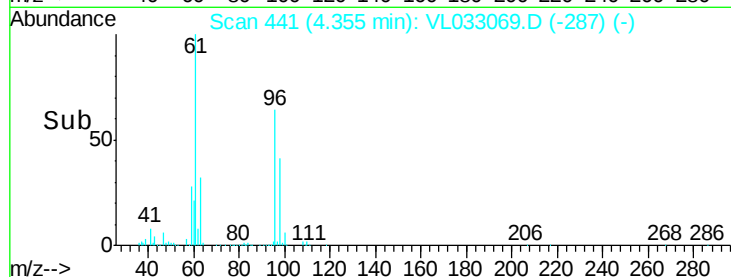
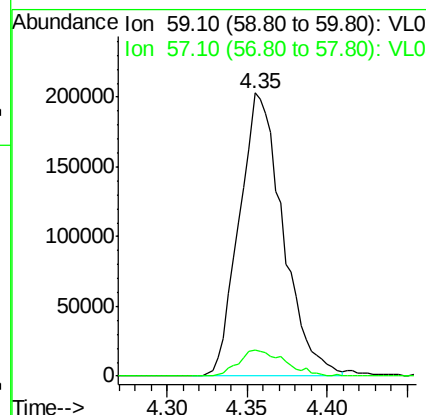
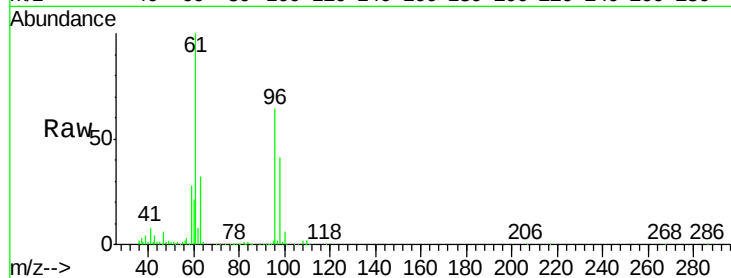
#17
tert-Butyl alcohol
Concen: 10.862 ppbv
RT: 4.35 min Scan# 441
Delta R.T. -0.00 min
Lab File: VL033069.D
Acq: 4 Jan 2019 14:50

Instrument :
MSVOA_L
ClientSampleId :
ICVVL010419

Tot Ion: 59 Resp: 378748
Ion Ratio Lower Upper
59 100
57 9.9 7.7 11.5

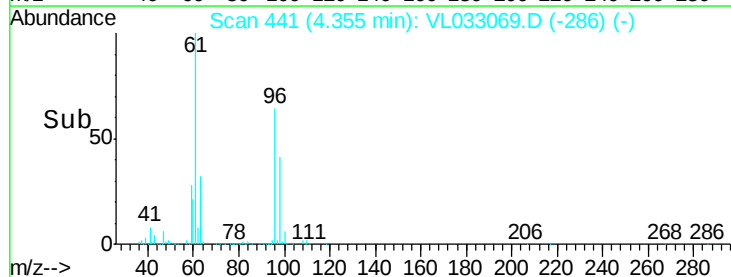
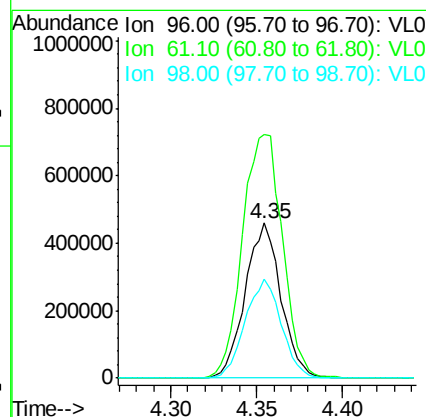
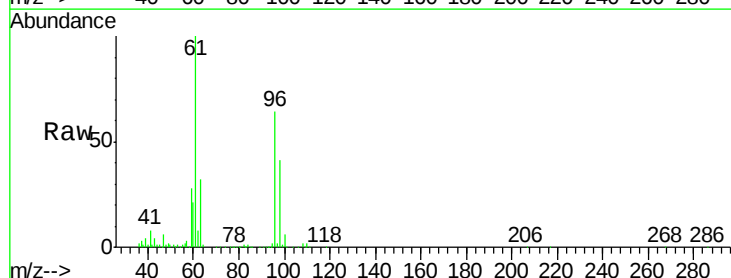
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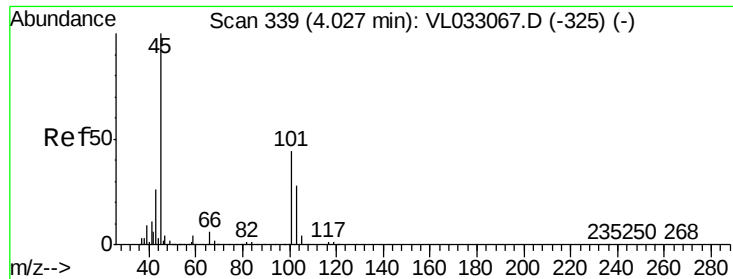
MMDadoda
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#18
1,1-Dichloroethene
Concen: 9.289 ppbv
RT: 4.35 min Scan# 441
Delta R.T. -0.00 min
Lab File: VL033069.D
Acq: 4 Jan 2019 14:50

Tgt Ion: 96 Resp: 661698
Ion Ratio Lower Upper
96 100
61 156.8 143.7 215.5
98 63.7 52.1 78.1





#19

Isopropyl Alcohol

Concen: 10.144 ppbv

RT: 4.02 min Scan# 337

Delta R.T. -0.00 min

Lab File: VL033069.D

Acq: 4 Jan 2019 14:50

Tot Ion: 45 Resp: 1149510

Ion Ratio Lower Upper

45 100

58 1.2 1.4 2.2#

Instrument :

MSVOA_L

ClientSampleId :

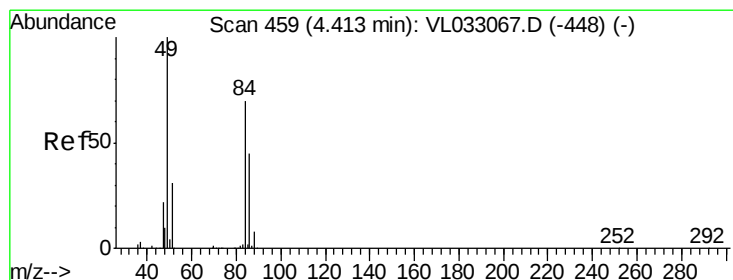
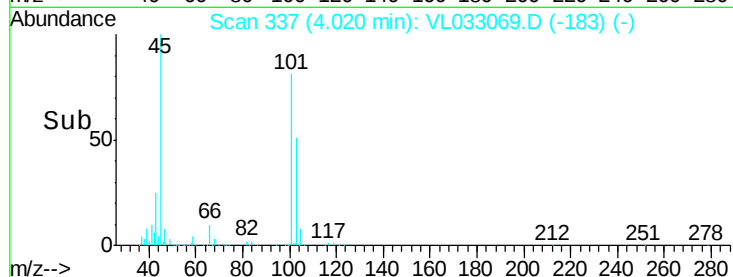
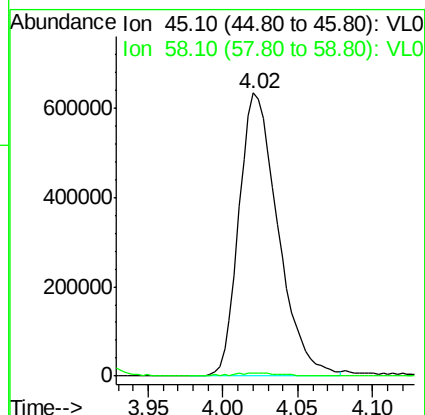
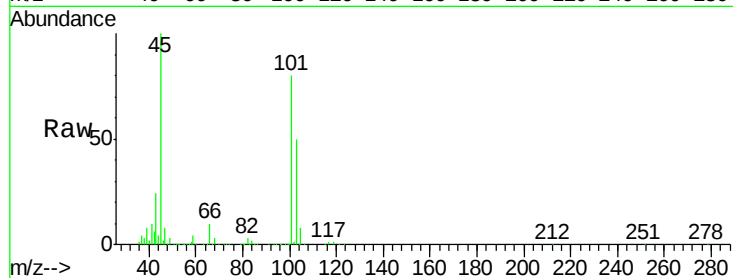
ICVVL010419

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#20

Methylene Chloride

Concen: 7.990 ppbv

RT: 4.41 min Scan# 457

Delta R.T. -0.00 min

Lab File: VL033069.D

Acq: 4 Jan 2019 14:50

Tgt Ion: 84 Resp: 548322

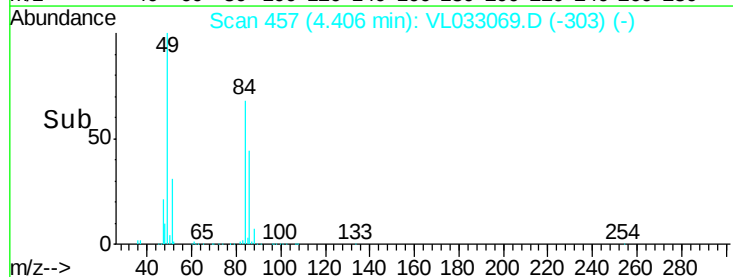
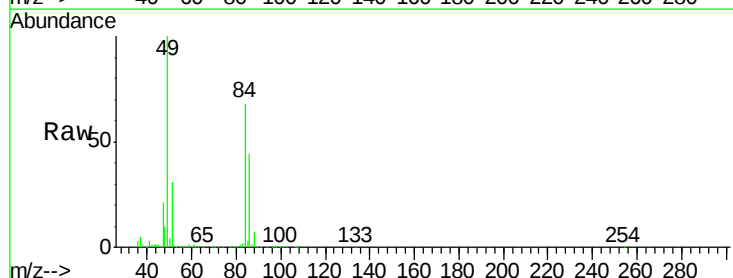
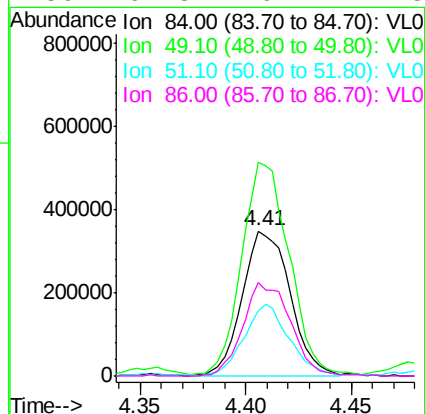
Ion Ratio Lower Upper

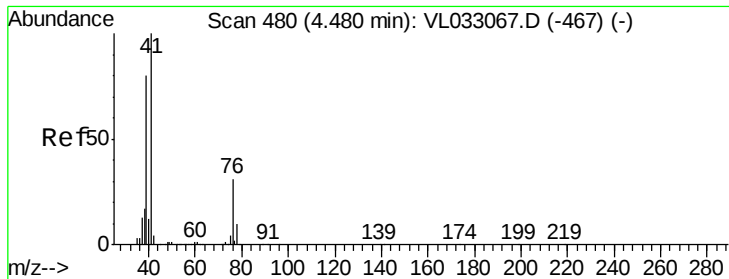
84 100

49 147.0 115.8 173.6

51 44.6 35.7 53.5

86 64.8 49.7 74.5





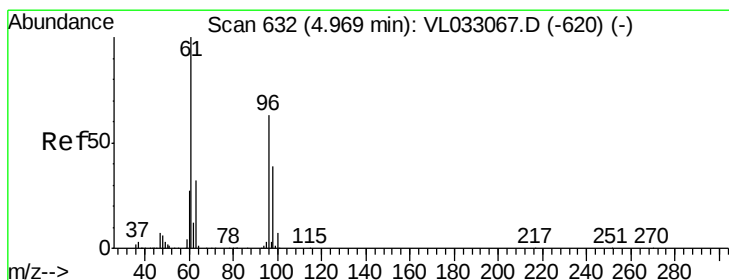
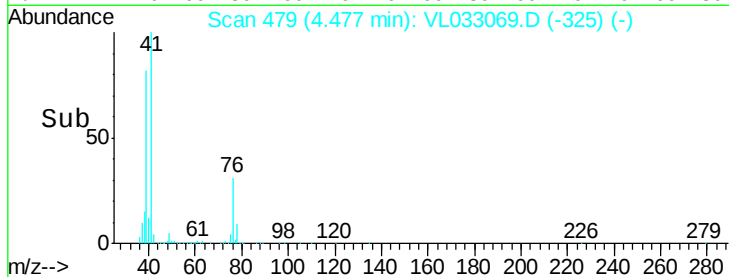
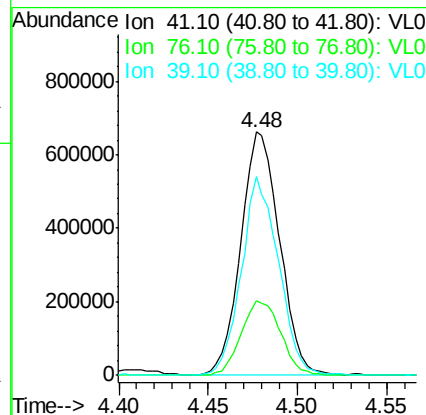
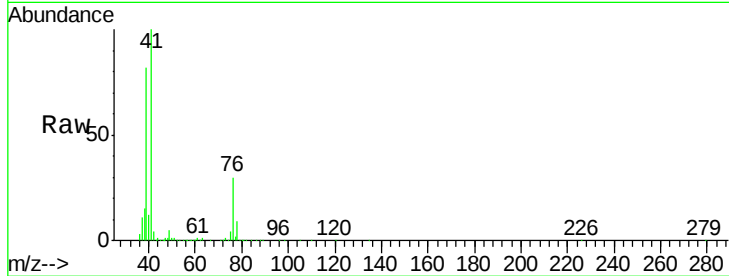
#21
Allvl Chloride
Concen: 9.794 ppbv
RT: 4.48 min Scan# 479
Delta R.T. -0.00 min
Lab File: VL033069.D
Acq: 4 Jan 2019 14:50

Instrument :
MSVOA_L
ClientSampleId :
ICVVL010419

Tot Ion	Ratio	Lower	Upper
41	100		
76	31.5	24.6	36.8
39	78.9	62.8	94.2

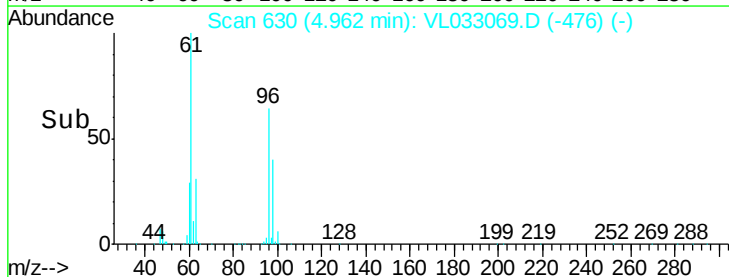
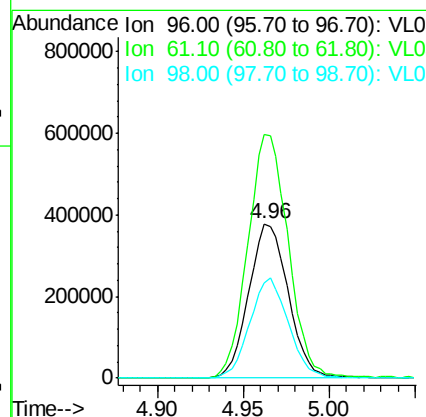
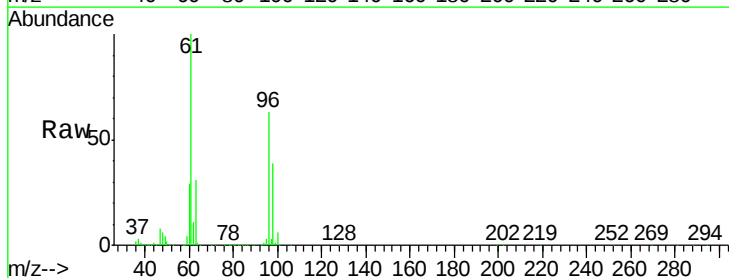
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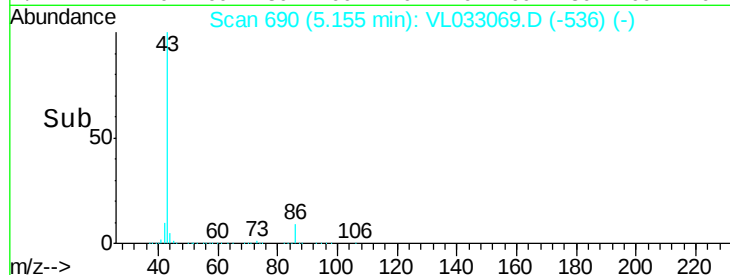
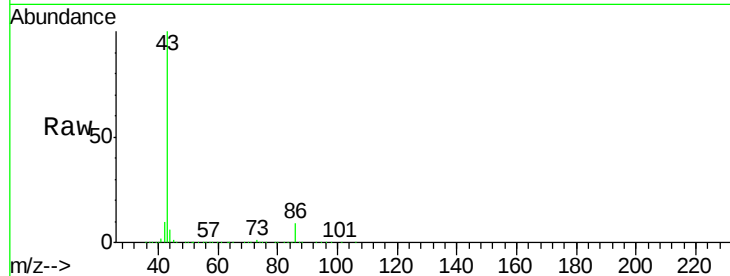
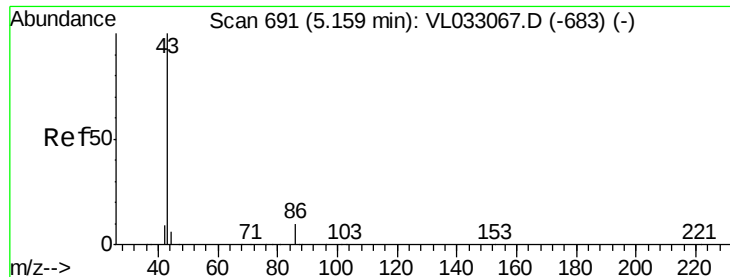
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#22
trans-1,2-Dichloroethene
Concen: 8.554 ppbv
RT: 4.96 min Scan# 630
Delta R.T. -0.00 min
Lab File: VL033069.D
Acq: 4 Jan 2019 14:50

Tgt Ion	Ratio	Lower	Upper
96	100		
61	157.5	125.2	187.8
98	61.8	50.9	76.3





#23

Vinyl Acetate

Concen: 9.599 ppbv

RT: 5.16 min Scan# 690

Delta R.T. -0.00 min

Lab File: VL033069.D

Acq: 4 Jan 2019 14:50

Tot Ion: 43 Resp: 2010156

Ion Ratio Lower Upper

43 100

86 9.0 6.2 9.4

42 9.9 8.1 12.1

44 5.6 4.3 6.5

Instrument :

MSVOA_L

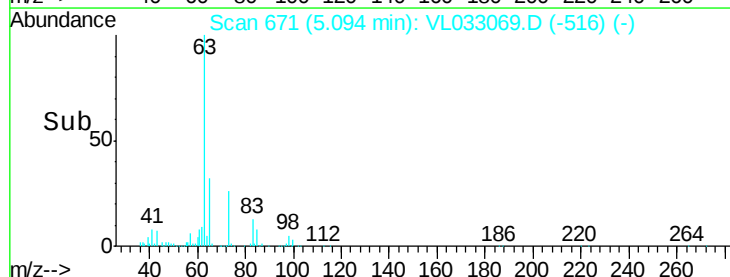
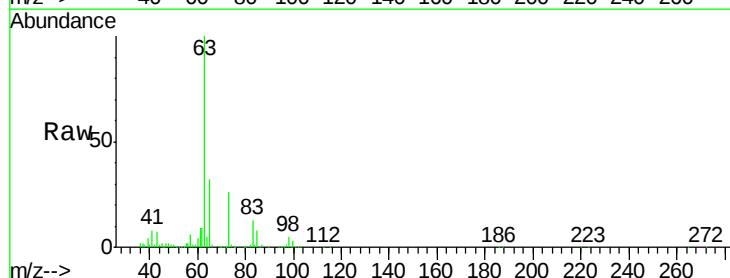
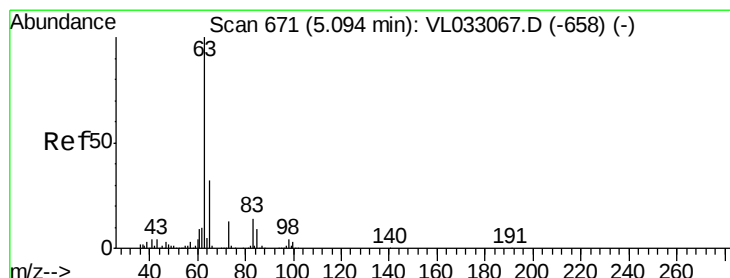
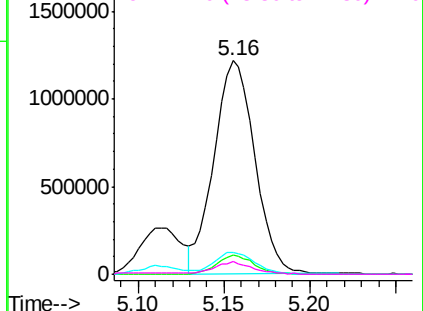
ClientSampleId :

ICVVL010419

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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 8.595 ppbv

RT: 5.09 min Scan# 671

Delta R.T. -0.00 min

Lab File: VL033069.D

Acq: 4 Jan 2019 14:50

Tgt Ion: 63 Resp: 1528115

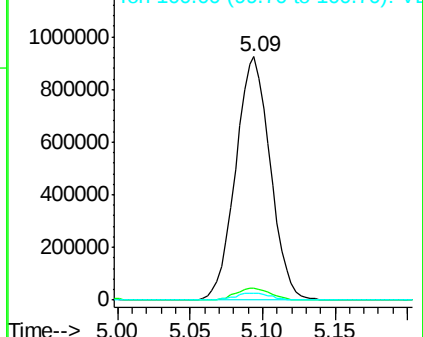
Ion Ratio Lower Upper

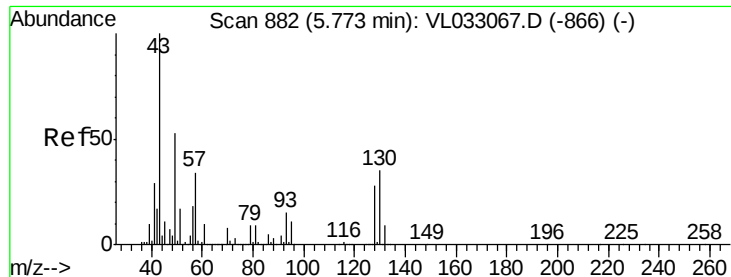
63 100

98 4.7 2.4 7.2

100 3.0 1.4 4.0

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





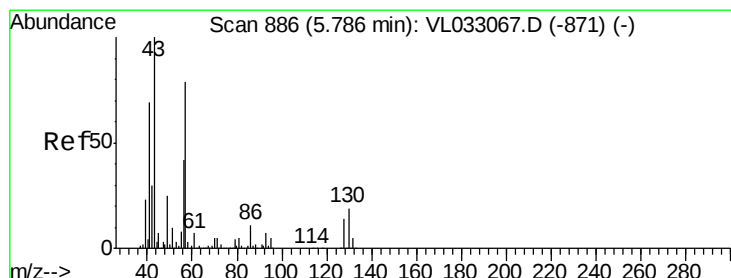
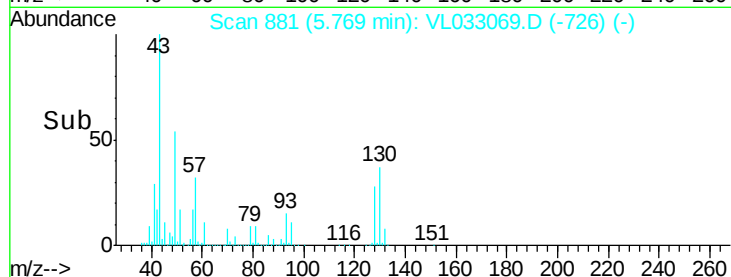
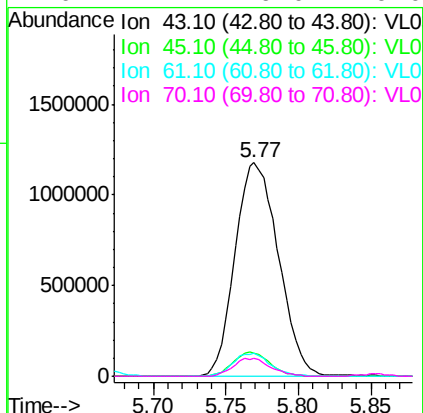
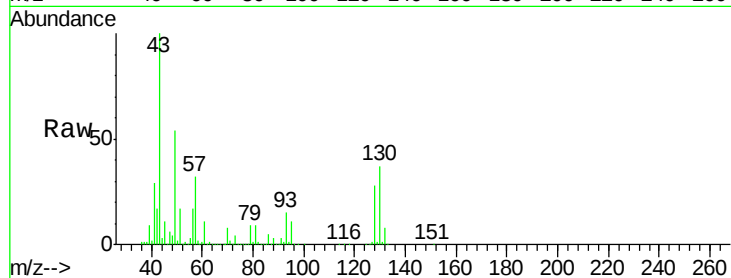
#25
Ethyl Acetate
Concen: 8.793 ppbv
RT: 5.77 min Scan# 881
Delta R.T. -0.00 min
Lab File: VL033069.D
Acq: 4 Jan 2019 14:50

Instrument :
MSVOA_L
ClientSampleId :
ICVVL010419

Tot Ion:	43	Resp:	2446580
Ion	Ratio	Lower	Upper
43	100		
45	9.8	7.9	11.9
61	9.4	7.8	11.8
70	7.2	6.0	9.0

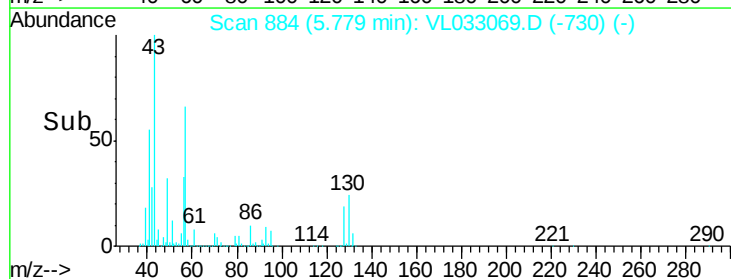
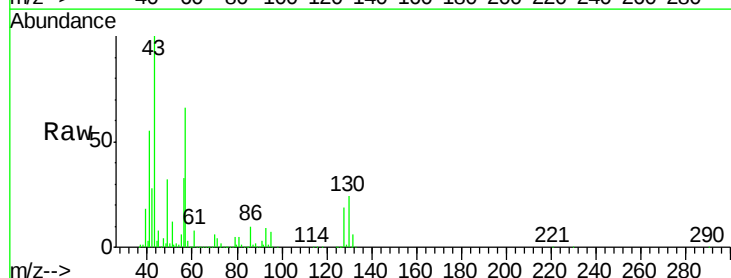
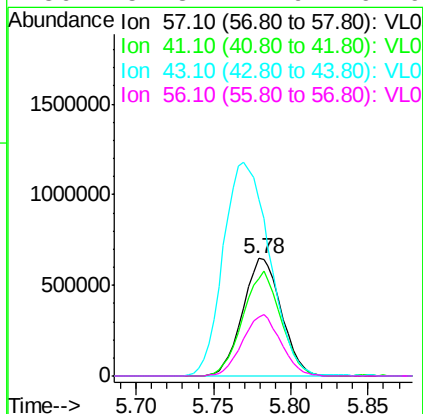
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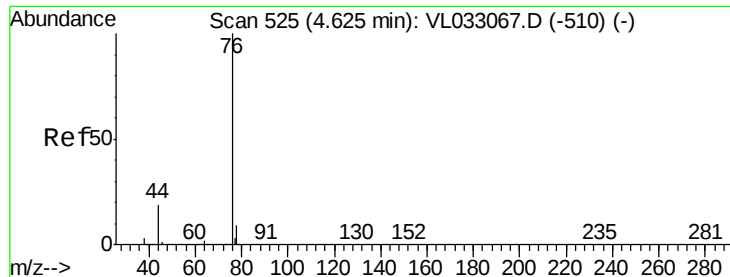
MMDadoda
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#26
Hexane
Concen: 8.589 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033069.D
Acq: 4 Jan 2019 14:50

Tgt Ion:	57	Resp:	1125247
Ion	Ratio	Lower	Upper
57	100		
41	88.0	70.8	106.2
43	218.6	171.8	257.6
56	52.3	41.9	62.9





#27

Carbon Disulfide

Concen: 9.430 ppbv

RT: 4.62 min Scan# 524

Delta R.T. -0.00 min

Lab File: VL033069.D

Acq: 4 Jan 2019 14:50

Instrument :

MSVOA_L

ClientSampleId :

ICVVL010419

Tot Ion: 76 Resp: 1523724

Ion Ratio Lower Upper

76 100

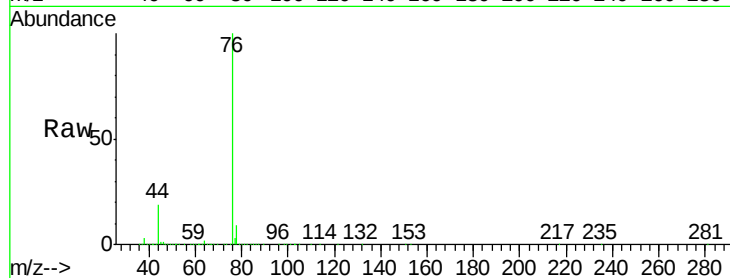
44 18.1 13.9 20.9

78 9.5 7.3 10.9

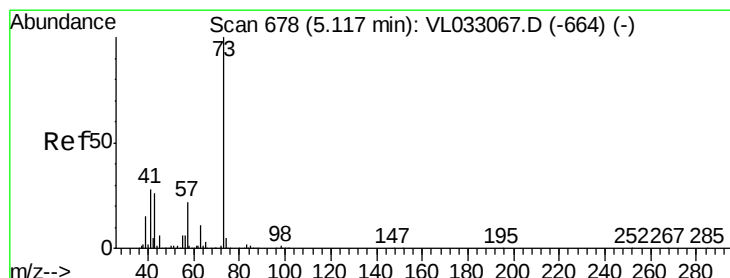
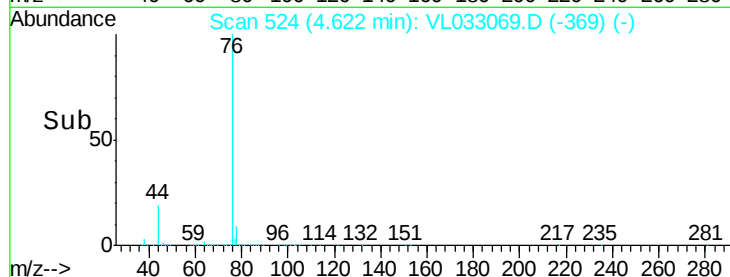
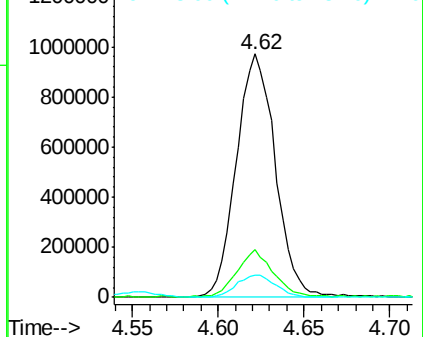
Manual Integrations
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Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 9.496 ppbv

RT: 5.11 min Scan# 677

Delta R.T. -0.00 min

Lab File: VL033069.D

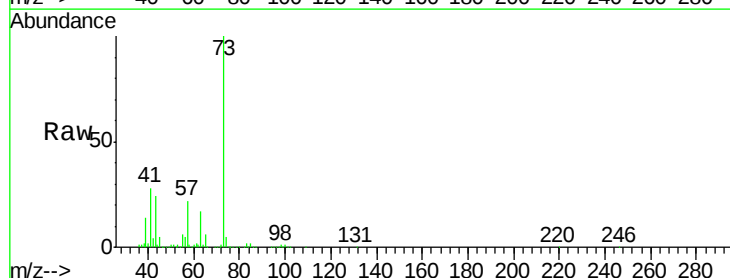
Acq: 4 Jan 2019 14:50

Tgt Ion: 73 Resp: 1941868

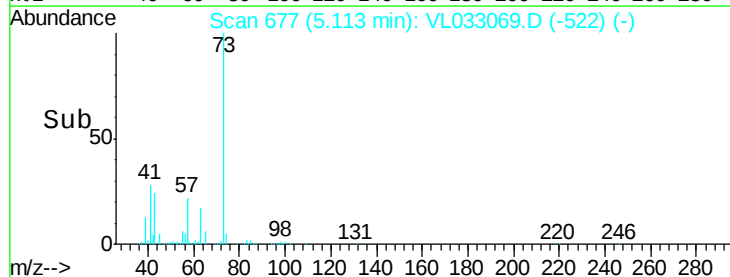
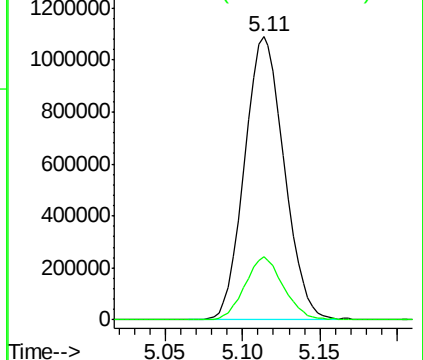
Ion Ratio Lower Upper

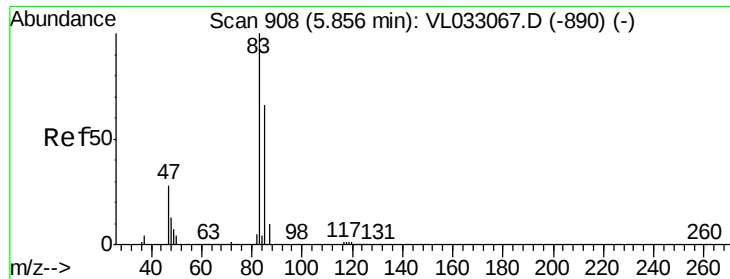
73 100

57 21.8 17.5 26.3



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





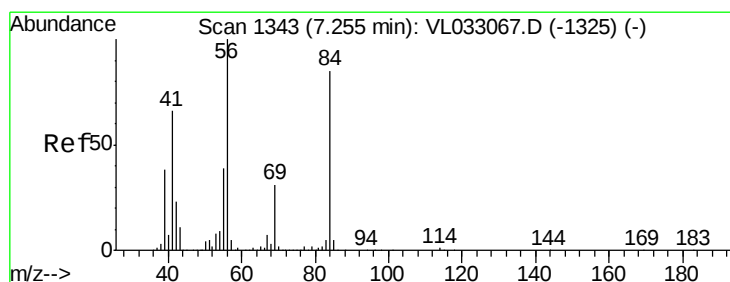
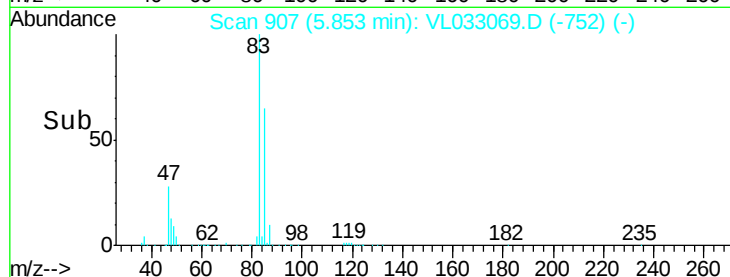
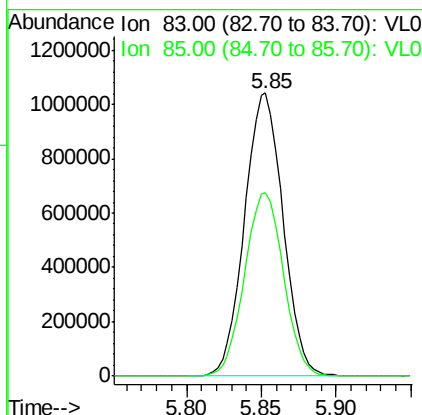
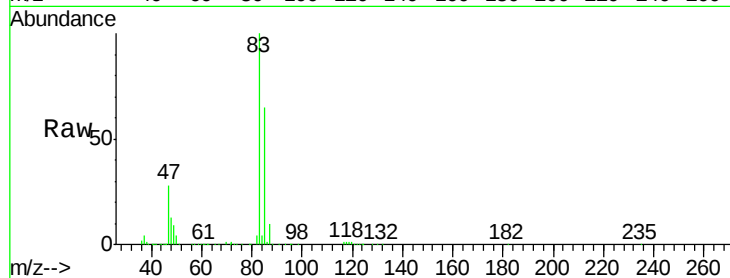
#29
Chloroform
Concen: 8.383 ppbv
RT: 5.85 min Scan# 907
Delta R.T. -0.00 min
Lab File: VL033069.D
Acq: 4 Jan 2019 14:50

Instrument :
MSVOA_L
ClientSampleId :
ICVVL010419

Tot Ion: 83 Resp: 1871732
Ion Ratio Lower Upper
83 100
85 64.7 52.5 78.7

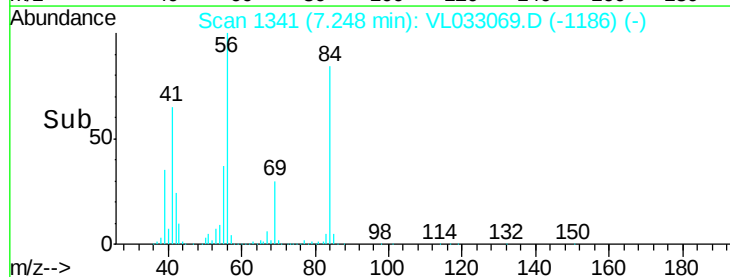
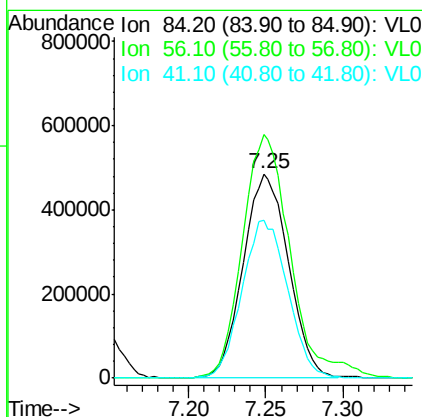
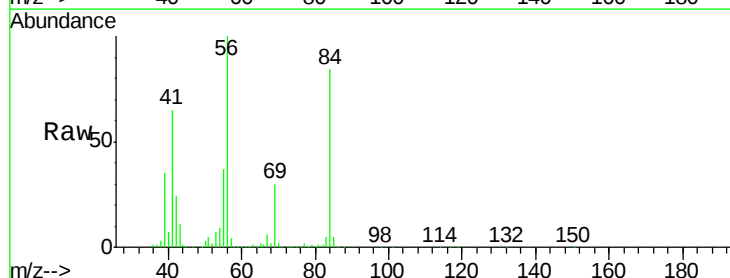
Manual Integrations
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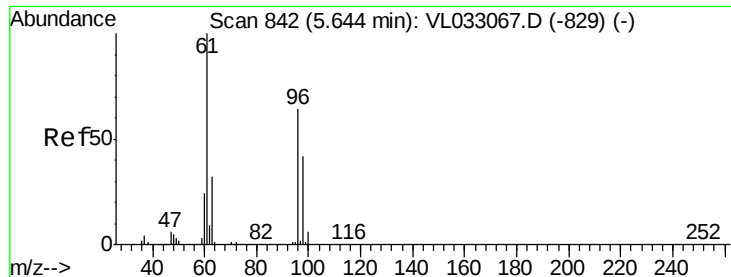
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#30
Cyclohexane
Concen: 10.113 ppbv
RT: 7.25 min Scan# 1341
Delta R.T. -0.00 min
Lab File: VL033069.D
Acq: 4 Jan 2019 14:50

Tgt Ion: 84 Resp: 987929
Ion Ratio Lower Upper
84 100
56 127.0 101.8 152.6
41 78.1 63.2 94.8





#31

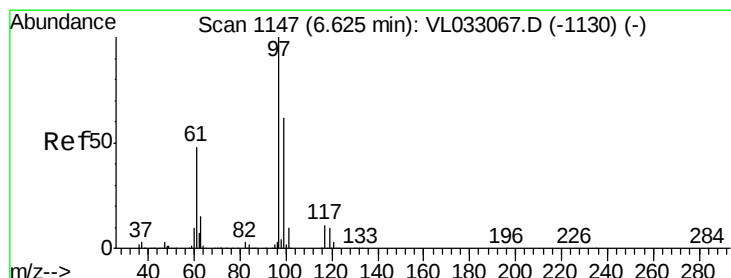
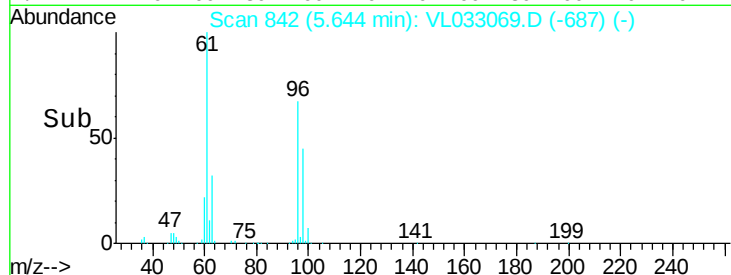
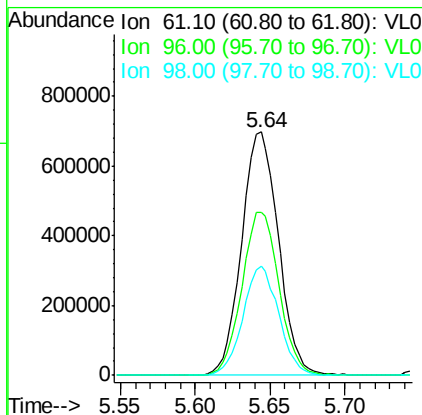
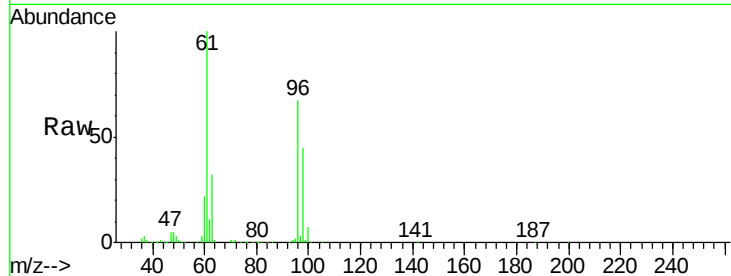
cis-1,2-Dichloroethene
Concen: 9.846 ppbv
RT: 5.64 min Scan# 842
Delta R.T. -0.00 min
Lab File: VL033069.D
Acq: 4 Jan 2019 14:50

Instrument :
MSVOA_L
ClientSampleId :
ICVVL010419

Tot Ion	Ratio	Lower	Upper
61	100		
96	66.8	52.8	79.2
98	45.0	33.8	50.6

Manual Integrations
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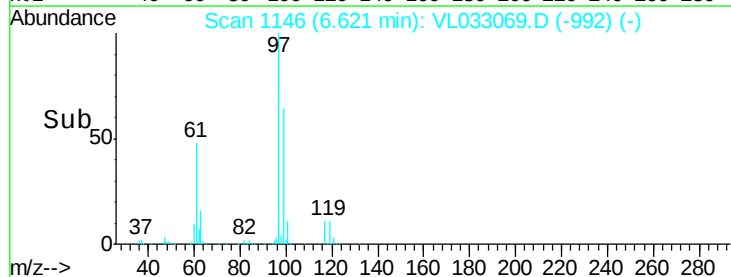
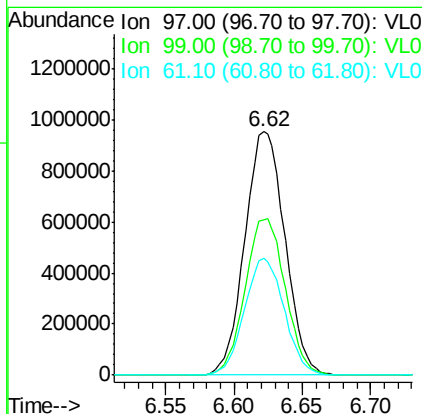
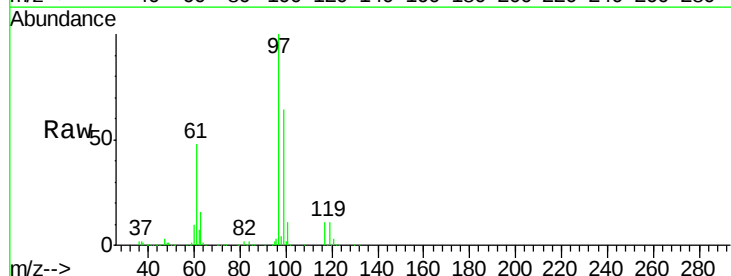
MMDadoda
1/8/2019 12:01:14 AM

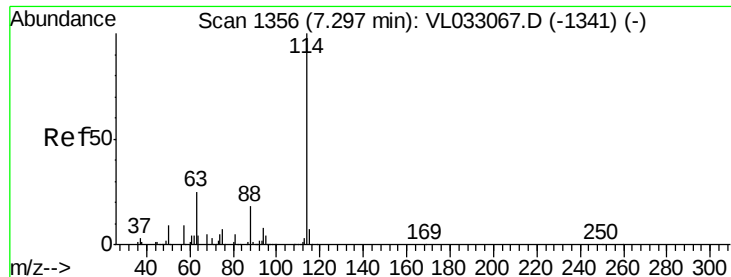


#32

1,1,1-Trichloroethane
Concen: 8.609 ppbv
RT: 6.62 min Scan# 1146
Delta R.T. -0.00 min
Lab File: VL033069.D
Acq: 4 Jan 2019 14:50

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.4	51.1	76.7
61	47.5	38.3	57.5





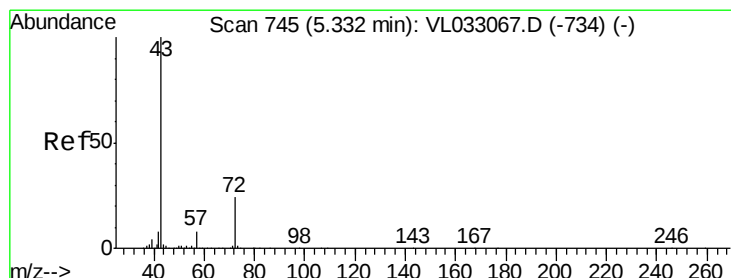
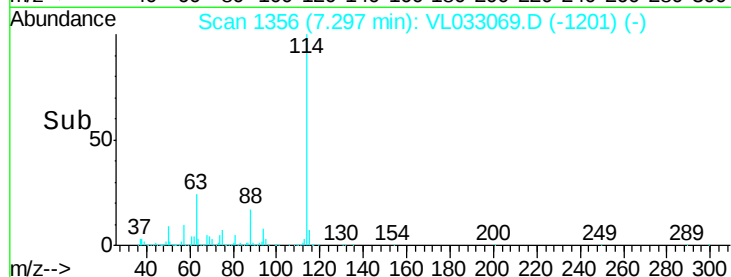
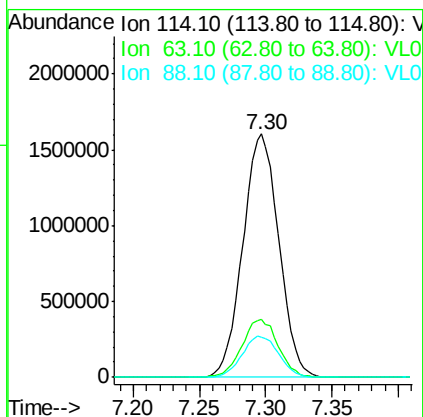
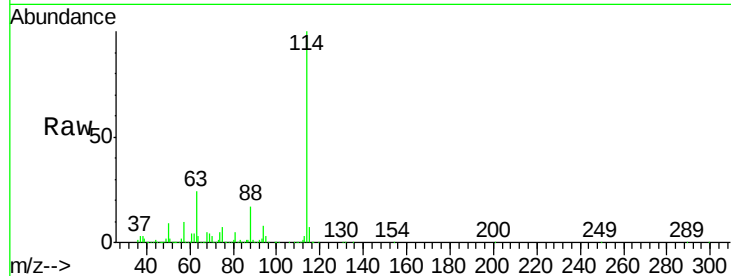
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1356
 Delta R.T. -0.00 min
 Lab File: VL033069.D
 Acq: 4 Jan 2019 14:50

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL010419

Tot Ion:114 Resp: 3022286
 Ion Ratio Lower Upper
 114 100
 63 24.4 20.1 30.1
 88 17.3 14.0 21.0

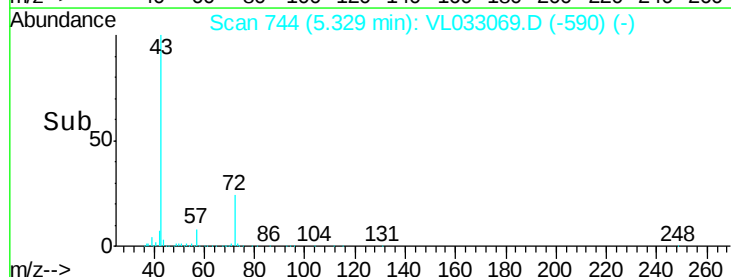
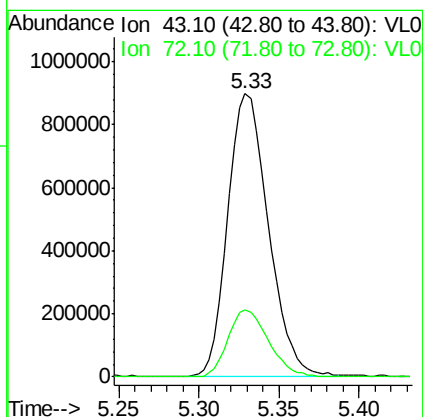
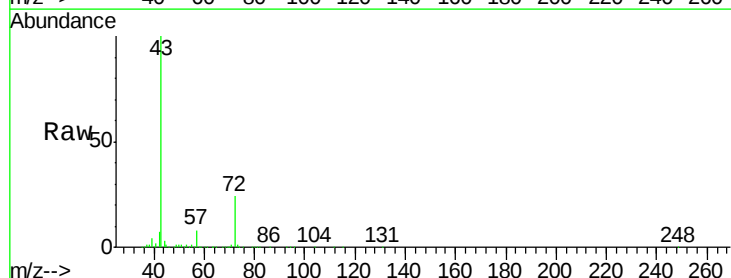
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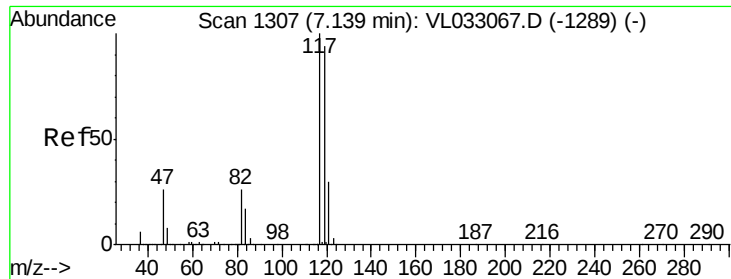
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#34
 2-Butanone
 Concen: 8.837 ppbv
 RT: 5.33 min Scan# 744
 Delta R.T. -0.00 min
 Lab File: VL033069.D
 Acq: 4 Jan 2019 14:50

Tgt Ion: 43 Resp: 1551795
 Ion Ratio Lower Upper
 43 100
 72 23.8 18.9 28.3





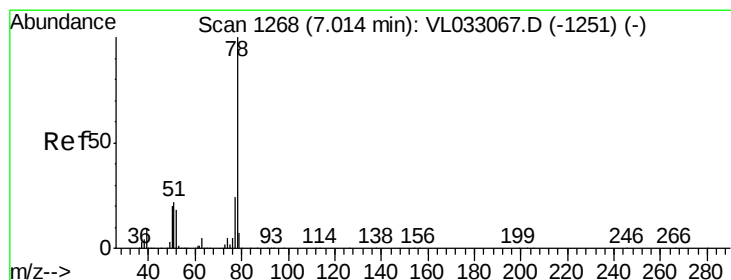
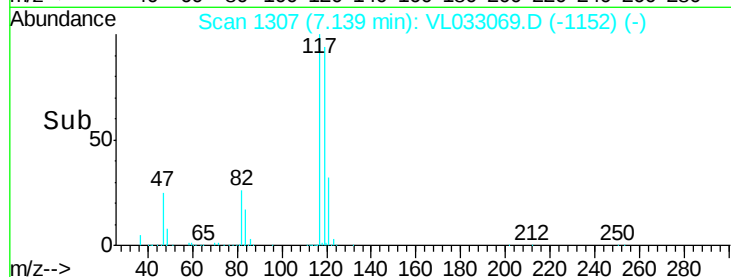
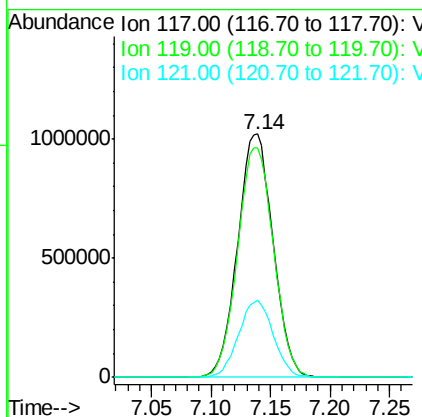
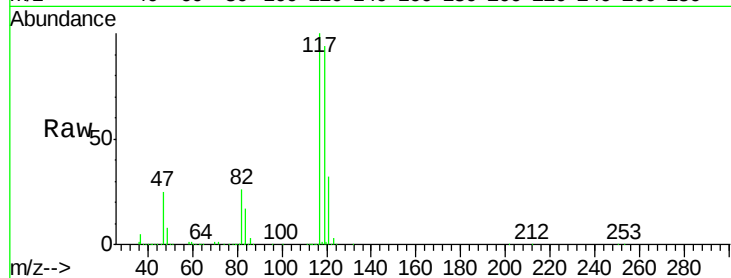
#35
Carbon Tetrachloride
Concen: 8.103 ppbv
RT: 7.14 min Scan# 1307
Delta R.T. -0.00 min
Lab File: VL033069.D
Acq: 4 Jan 2019 14:50

Instrument :
MSVOA_L
ClientSampled :
ICVVL010419

Tot Ion:117 Resp: 2103626
Ion Ratio Lower Upper
117 100
119 94.2 76.5 114.7
121 31.5 25.2 37.8

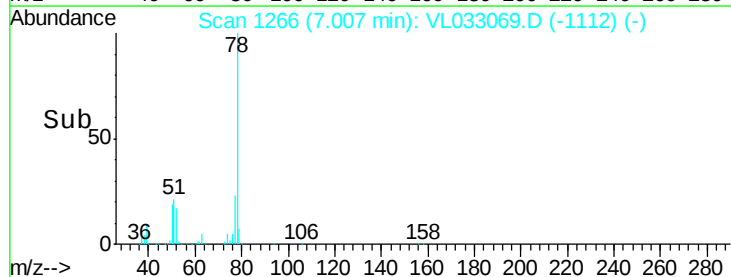
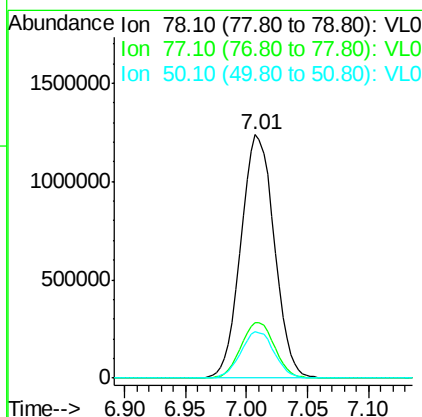
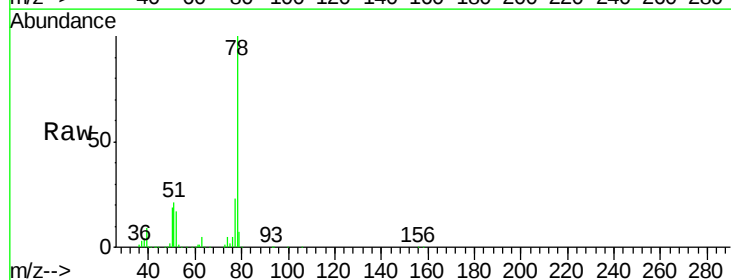
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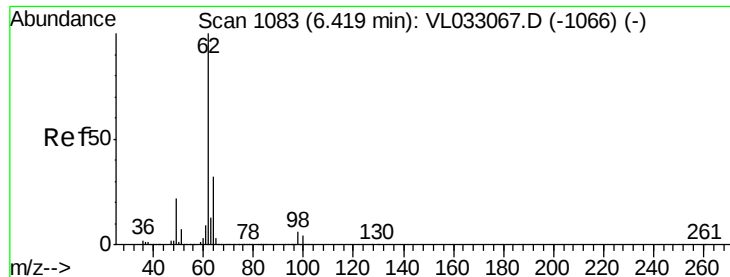
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#36
Benzene
Concen: 9.447 ppbv
RT: 7.01 min Scan# 1266
Delta R.T. -0.00 min
Lab File: VL033069.D
Acq: 4 Jan 2019 14:50

Tgt Ion: 78 Resp: 2338801
Ion Ratio Lower Upper
78 100
77 22.6 18.5 27.7
50 18.8 15.7 23.5





#37

1,2-Dichloroethane

Concen: 8.412 ppbv

RT: 6.42 min Scan# 1082

Delta R.T. -0.00 min

Lab File: VL033069.D

Acq: 4 Jan 2019 14:50

Instrument :

MSVOA_L

ClientSampleId :

ICVVL010419

Tot Ion: 62 Resp: 1454120

Ion Ratio Lower Upper

62 100

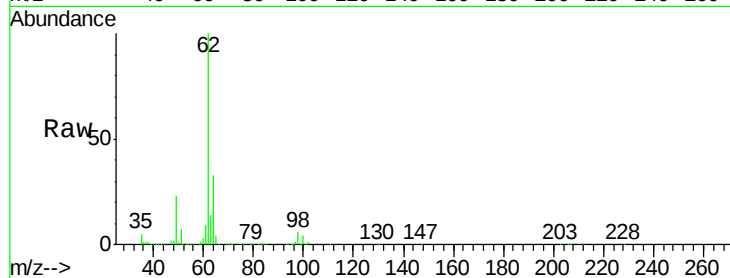
98 6.0 4.6 7.0

Manual Integrations

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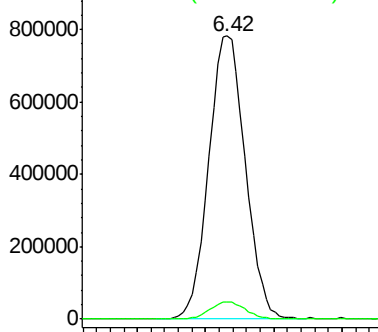
MMDadoda

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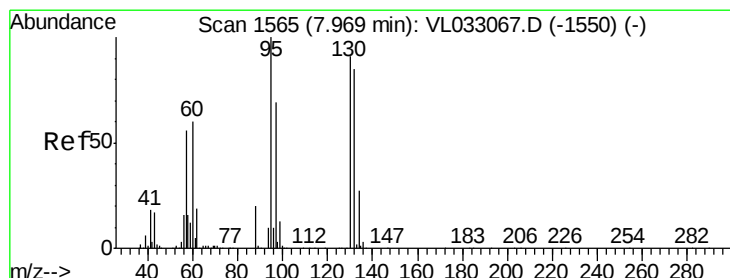
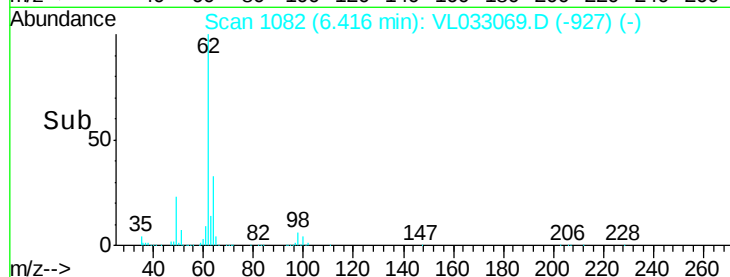


Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



Time-->



#38

Trichloroethene

Concen: 9.695 ppbv

RT: 7.97 min Scan# 1564

Delta R.T. 0.00 min

Lab File: VL033069.D

Acq: 4 Jan 2019 14:50

Tgt Ion:130 Resp: 987445

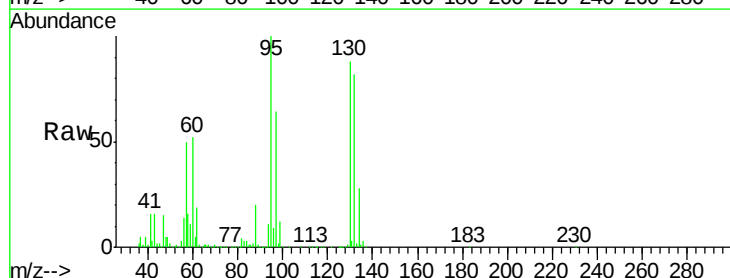
Ion Ratio Lower Upper

130 100

95 113.4 88.6 132.8

132 92.6 74.2 111.2

97 72.6 56.2 84.2

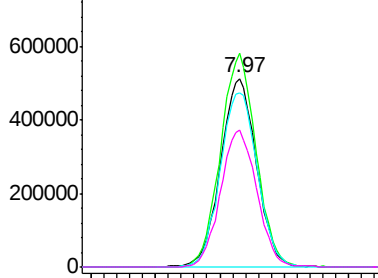


Abundance Ion 130.00 (129.70 to 130.70): V

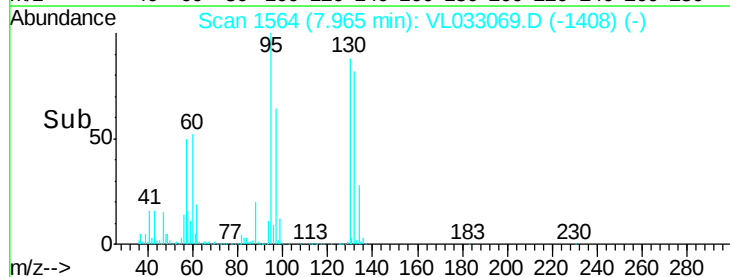
Ion 95.00 (94.70 to 95.70): VL0

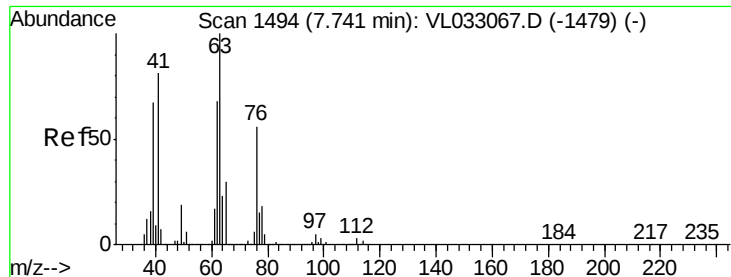
Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



Time-->





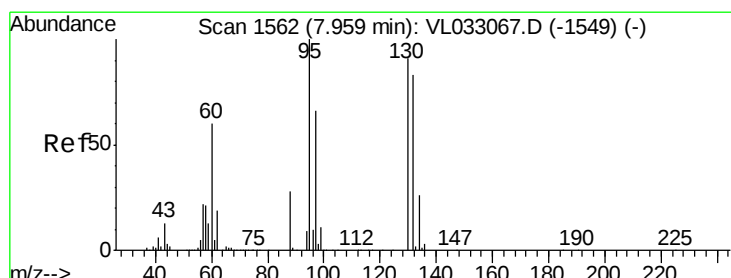
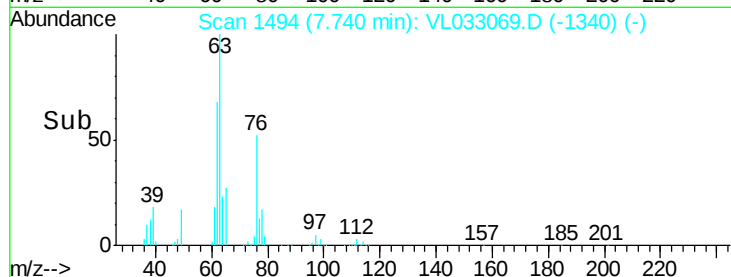
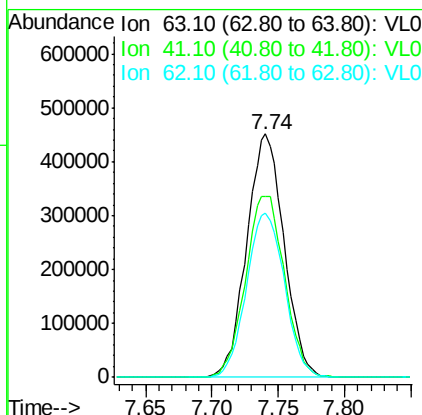
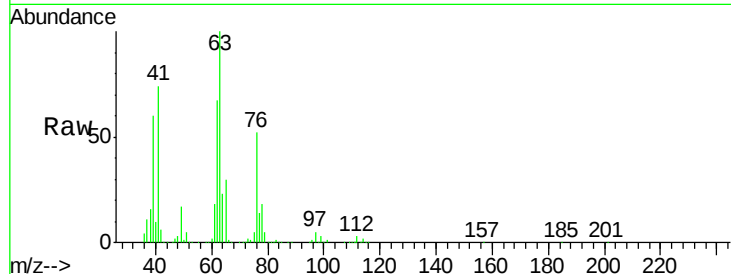
#39
 1,2-Dichloropropane
 Concen: 9.485 ppbv
 RT: 7.74 min Scan# 1494
 Delta R.T. -0.00 min
 Lab File: VL033069.D
 Acq: 4 Jan 2019 14:50

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL010419

Tot Ion	Ratio	Lower	Upper
63	100		
41	74.4	61.9	92.9
62	67.3	55.8	83.6

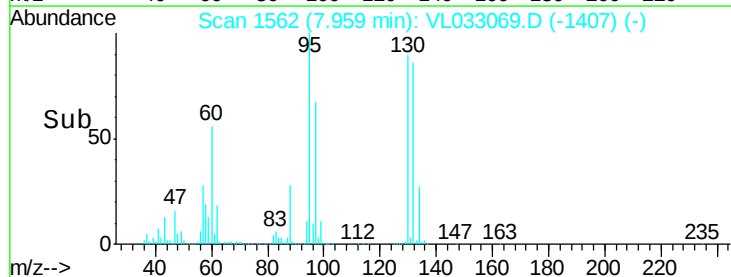
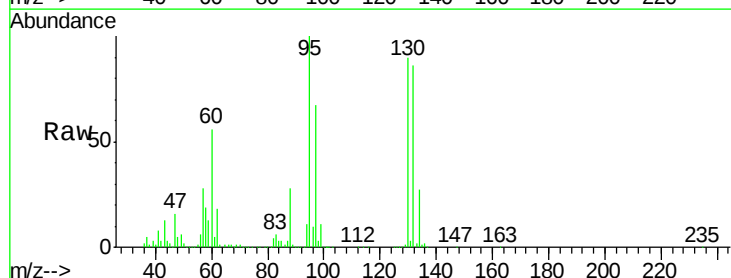
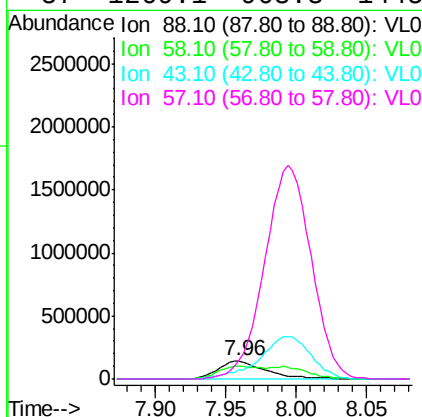
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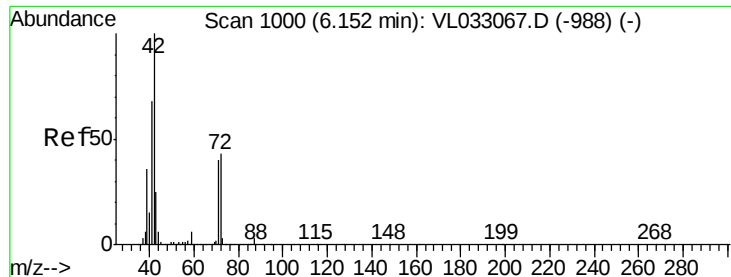
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#40
 1,4-Dioxane
 Concen: 8.752 ppbv
 RT: 7.96 min Scan# 1562
 Delta R.T. -0.00 min
 Lab File: VL033069.D
 Acq: 4 Jan 2019 14:50

Tgt Ion	Ratio	Lower	Upper
88	100		
58	131.4	101.9	152.9
43	277.8	212.6	319.0
57	1269.1	963.8	1445.6





#41

Tetrahydrofuran

Concen: 9.984 ppbv

RT: 6.15 min Scan# 999

Delta R.T. -0.00 min

Lab File: VL033069.D

Acq: 4 Jan 2019 14:50

Instrument :

MSVOA_L

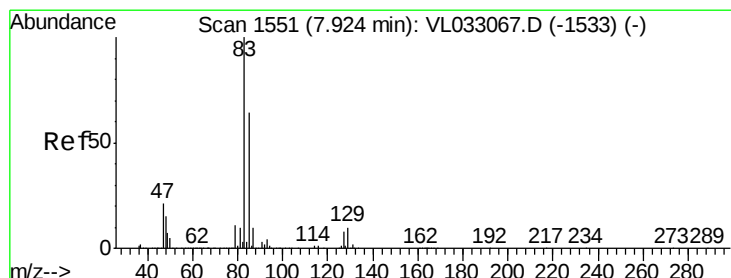
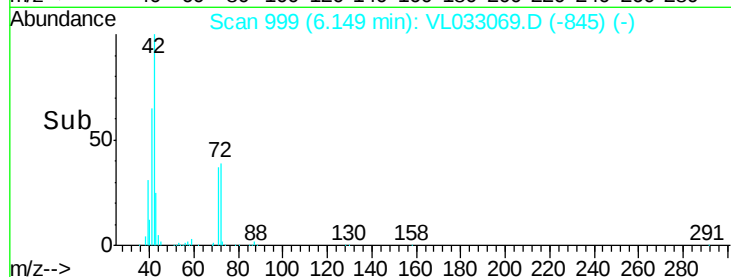
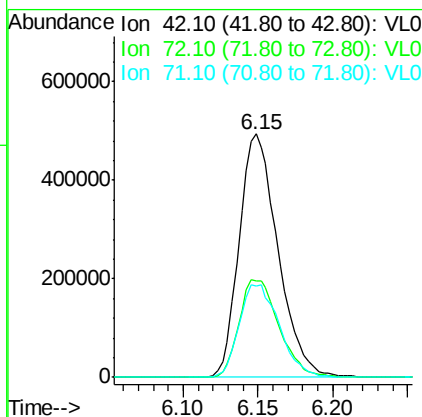
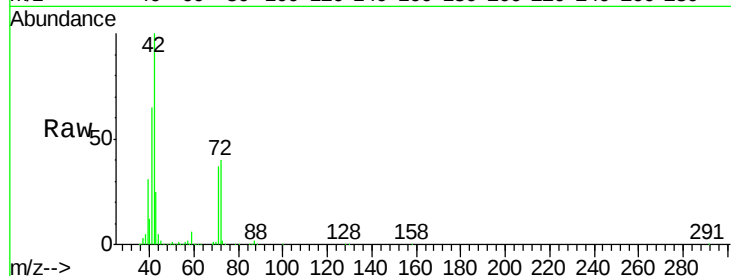
ClientSampleId :

ICVVL010419

Tot Ion:	42	Resp:	892365
Ion Ratio		Lower	Upper
42	100		
72	41.5	32.9	49.3
71	39.8	31.8	47.6

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#42

Bromodichloromethane

Concen: 8.799 ppbv

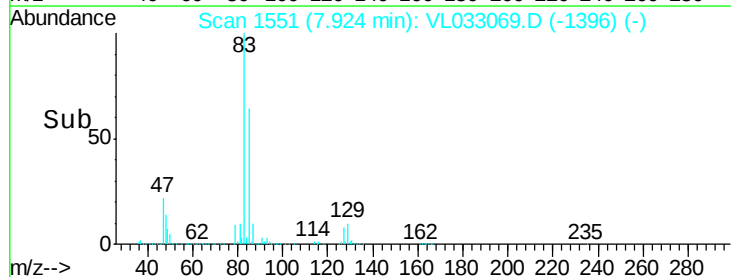
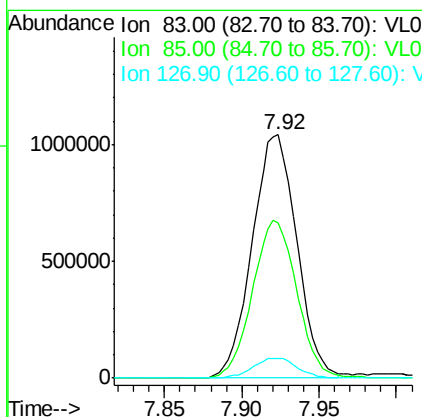
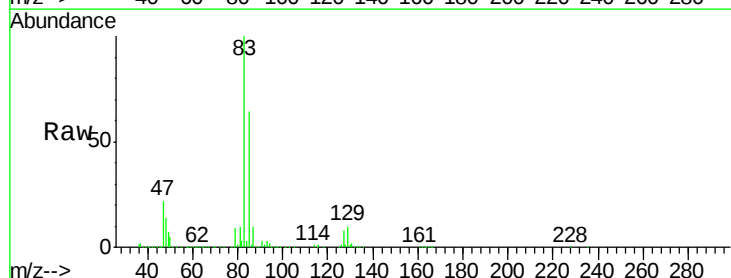
RT: 7.92 min Scan# 1551

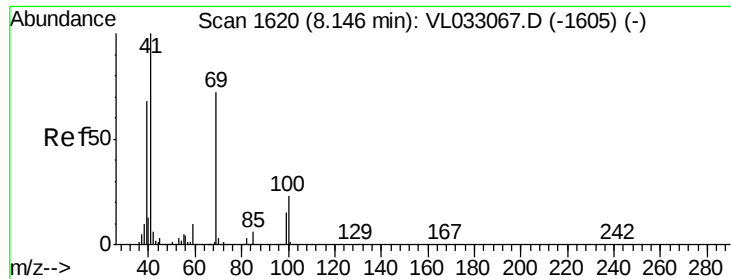
Delta R.T. -0.00 min

Lab File: VL033069.D

Acq: 4 Jan 2019 14:50

Tgt Ion:	83	Resp:	2089273
Ion Ratio		Lower	Upper
83	100		
85	63.6	51.0	76.4
127	8.0	6.5	9.7





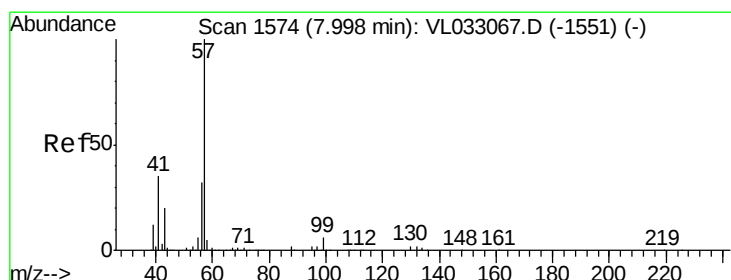
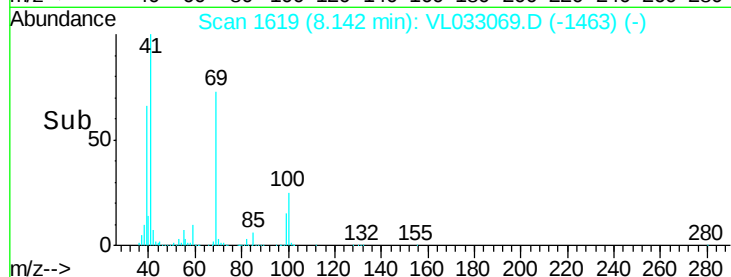
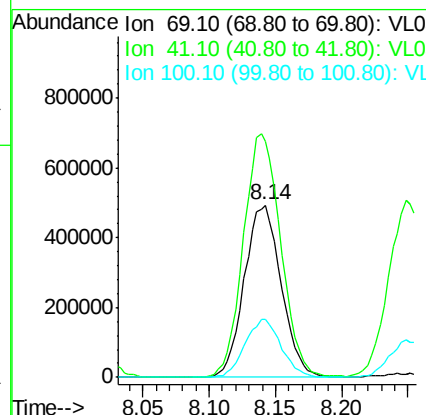
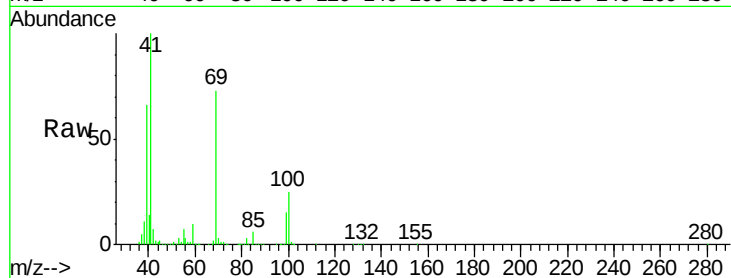
#43
Methvl Methacrilate
Concen: 10.276 ppbv
RT: 8.14 min Scan# 1619
Delta R.T. 0.00 min
Lab File: VL033069.D
Acq: 4 Jan 2019 14:50

Instrument :
MSVOA_L
ClientSampleId :
ICVVL010419

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	142.6	114.0	171.0	
100	33.0	26.3	39.5	

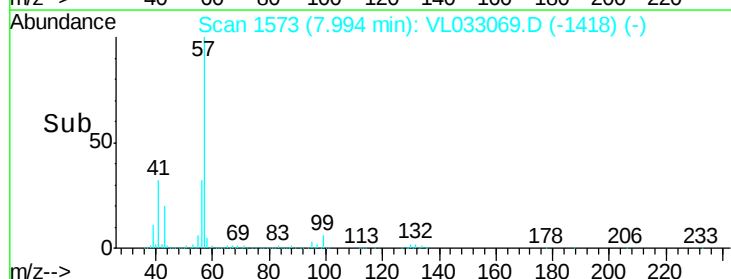
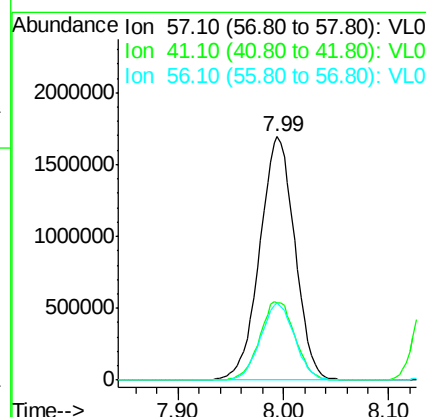
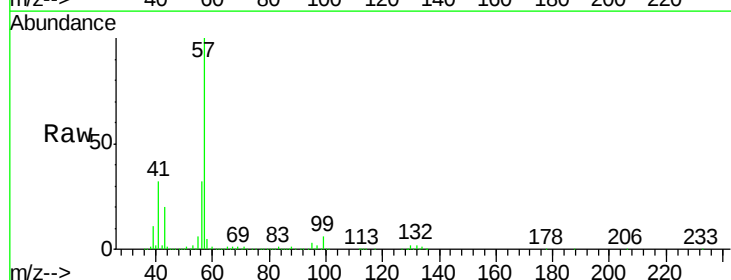
Manual Integrations
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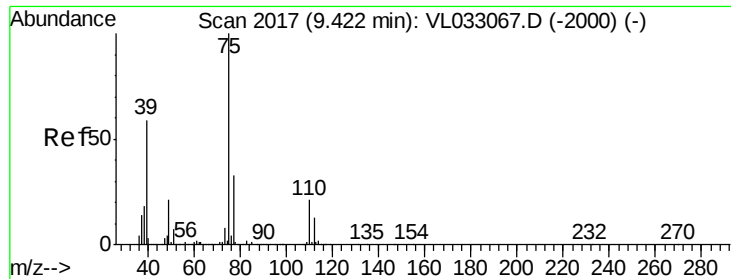
MMDadoda
1/8/2019 12:01:14 AM



#44
2,2,4-Trimethylpentane
Concen: 9.337 ppbv
RT: 7.99 min Scan# 1573
Delta R.T. -0.00 min
Lab File: VL033069.D
Acq: 4 Jan 2019 14:50

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	32.5	26.2	39.2	
56	30.8	24.9	37.3	





#45

t-1,3-Dichloropropene

Concen: 11.676 ppbv

RT: 9.42 min Scan# 2016

Delta R.T. -0.00 min

Lab File: VL033069.D

Acq: 4 Jan 2019 14:50

Instrument :

MSVOA_L

ClientSampleId :

ICVVL010419

Tot Ion: 75 Resp: 1350163

Ion Ratio Lower Upper

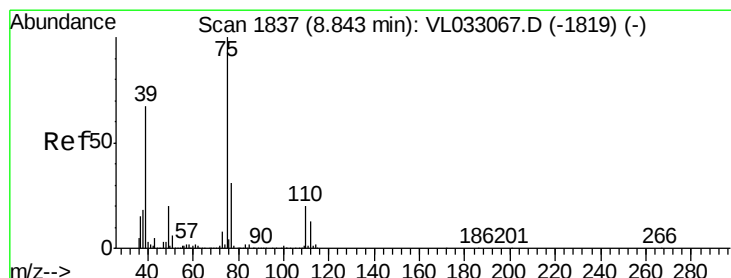
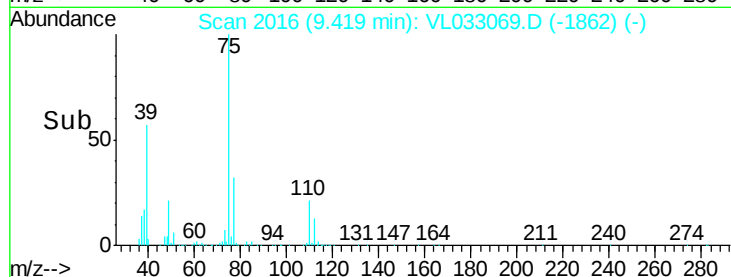
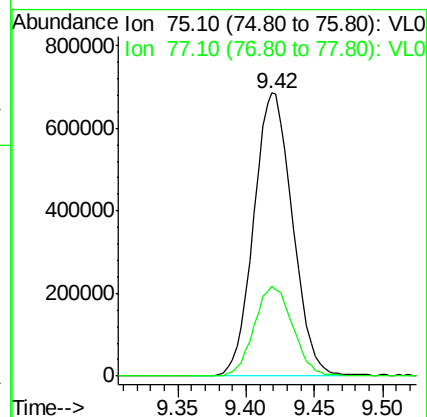
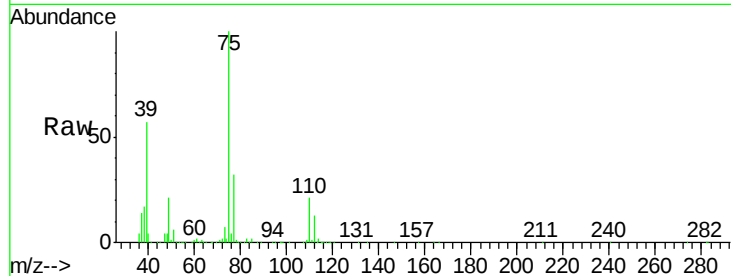
75 100

77 31.9 24.8 37.2

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#46

cis-1,3-Dichloropropene

Concen: 11.587 ppbv

RT: 8.84 min Scan# 1836

Delta R.T. -0.00 min

Lab File: VL033069.D

Acq: 4 Jan 2019 14:50

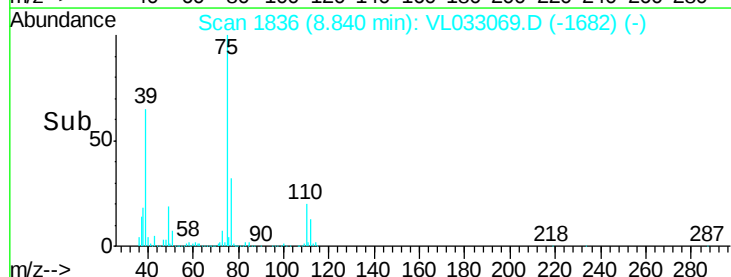
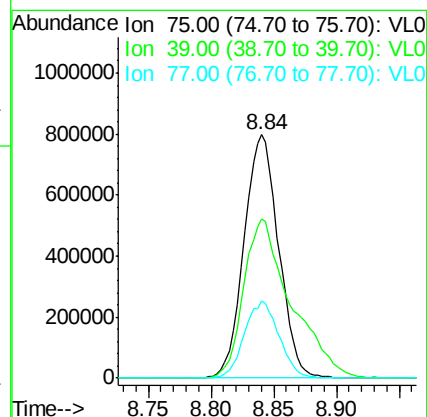
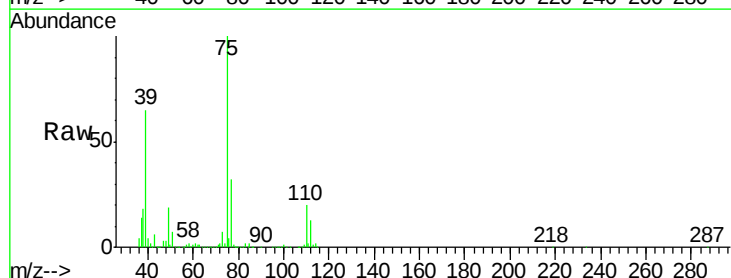
Tgt Ion: 75 Resp: 1529256

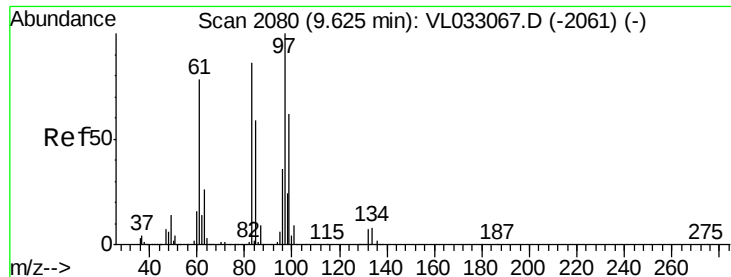
Ion Ratio Lower Upper

75 100

39 65.3 51.3 76.9

77 31.5 25.5 38.3





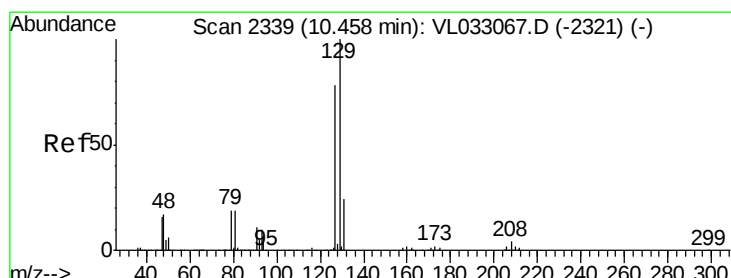
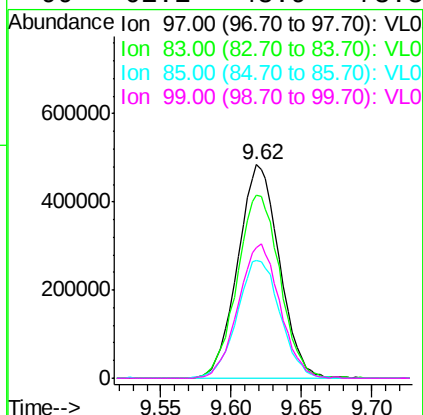
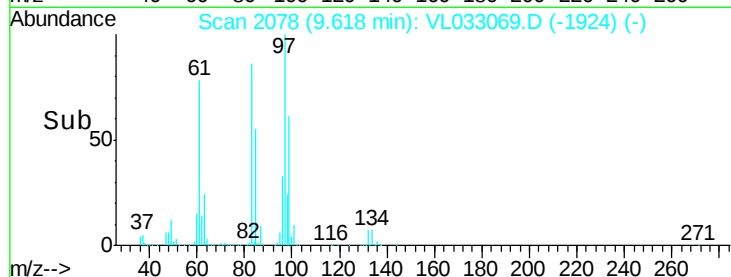
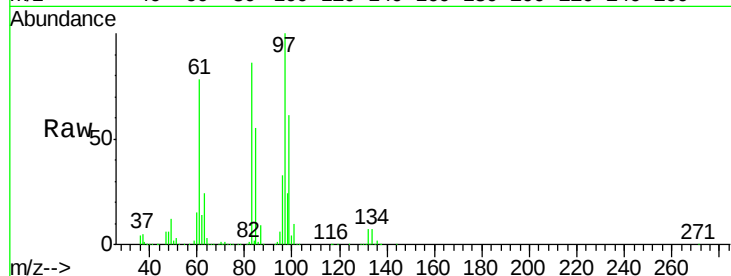
#47
 1,1,2-Trichloroethane
 Concen: 9.165 ppbv
 RT: 9.62 min Scan# 2078
 Delta R.T. -0.00 min
 Lab File: VL033069.D
 Acq: 4 Jan 2019 14:50

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL010419

Tot Ion	Ratio	Lower	Upper
97	100		
83	85.8	69.4	104.2
85	55.2	44.2	66.2
99	61.1	48.9	73.3

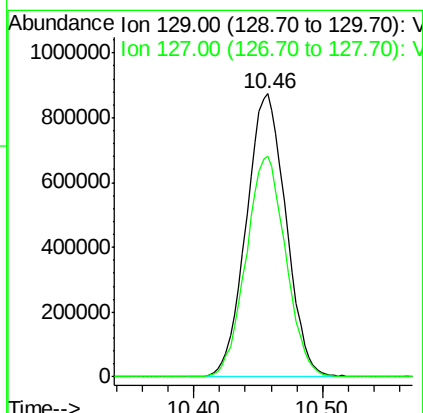
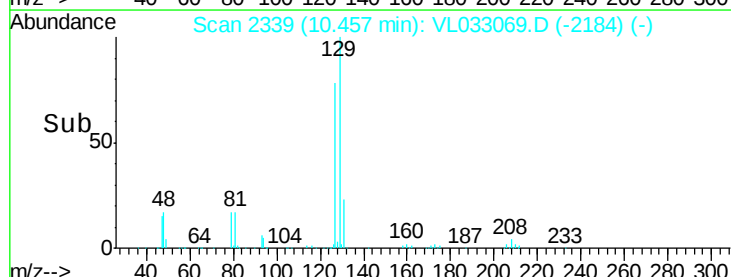
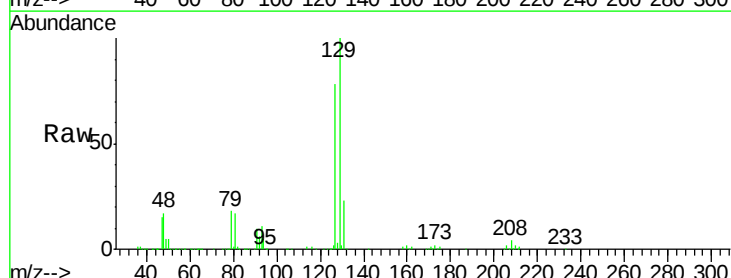
Manual Integrations
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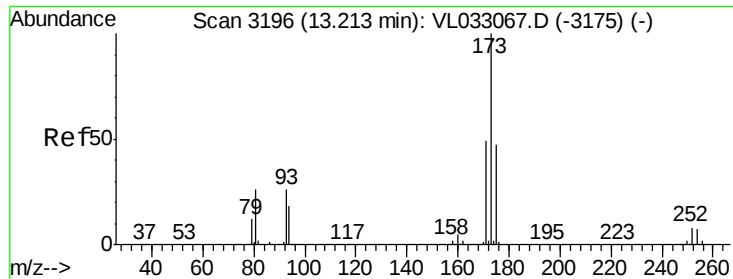
MMDadoda
 1/8/2019 12:01:14 AM



#48
 Dibromochloromethane
 Concen: 9.753 ppbv
 RT: 10.46 min Scan# 2339
 Delta R.T. -0.00 min
 Lab File: VL033069.D
 Acq: 4 Jan 2019 14:50

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.0	39.1	117.3





#49

Bromoform

Concen: 9.387 ppbv

RT: 13.21 min Scan# 3195

Delta R.T. -0.00 min

Lab File: VL033069.D

Acq: 4 Jan 2019 14:50

Instrument :

MSVOA_L

ClientSampleId :

ICVVL010419

Tot Ion:173 Resp: 1574442

Ion Ratio Lower Upper

173 100

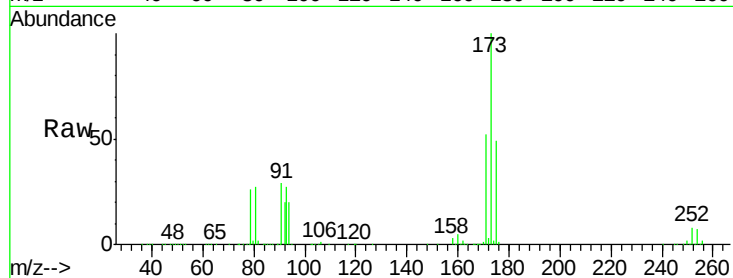
175 48.8 39.4 59.2

171 52.4 42.1 63.1

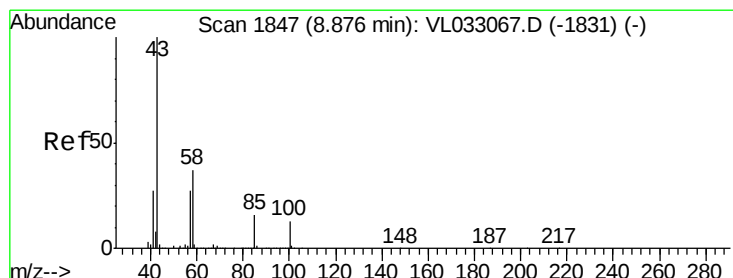
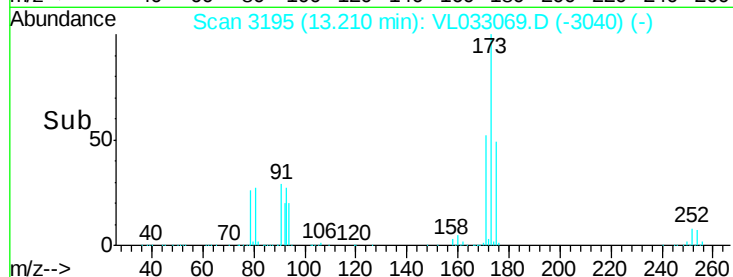
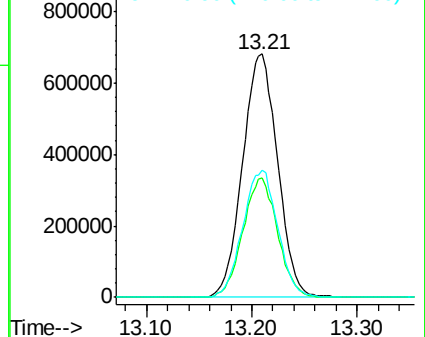
Manual Integrations
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Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 10.080 ppbv

RT: 8.87 min Scan# 1846

Delta R.T. -0.00 min

Lab File: VL033069.D

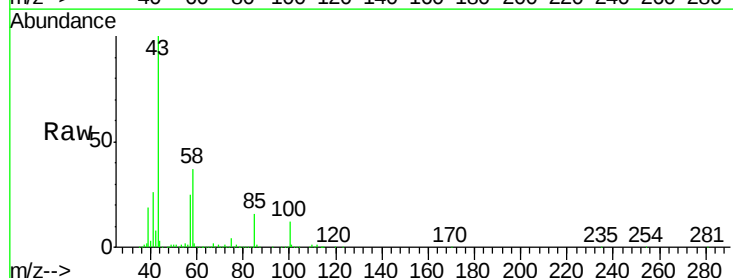
Acq: 4 Jan 2019 14:50

Tgt Ion: 43 Resp: 2243012

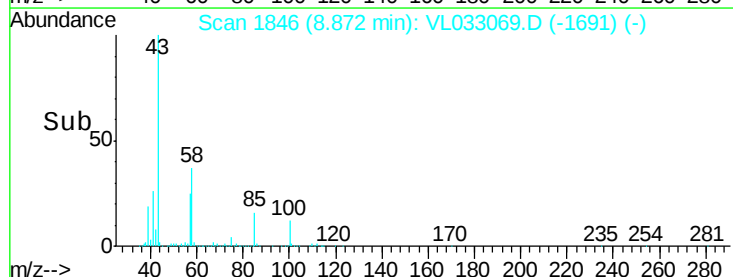
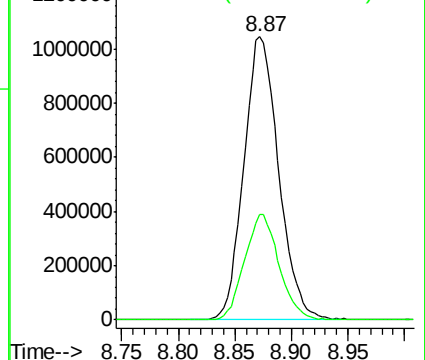
Ion Ratio Lower Upper

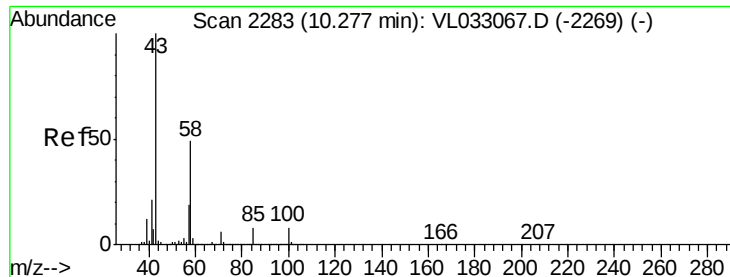
43 100

58 37.0 28.9 43.3



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





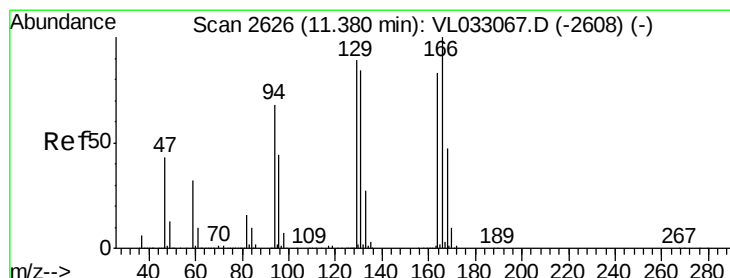
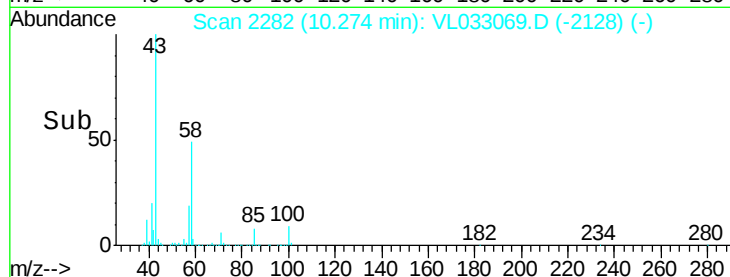
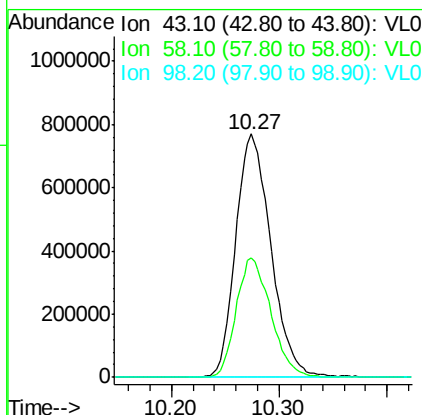
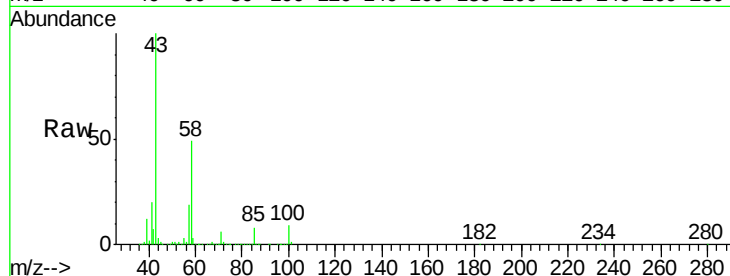
#51
2-Hexanone
Concen: 10.870 ppbv
RT: 10.27 min Scan# 2282
Delta R.T. -0.00 min
Lab File: VL033069.D
Acq: 4 Jan 2019 14:50

Instrument :
MSVOA_L
ClientSampleId :
ICVVL010419

Tot Ion: 43 Resp: 1750151
Ion Ratio Lower Upper
43 100
58 48.6 39.0 58.6
98 0.4 0.4 0.6#

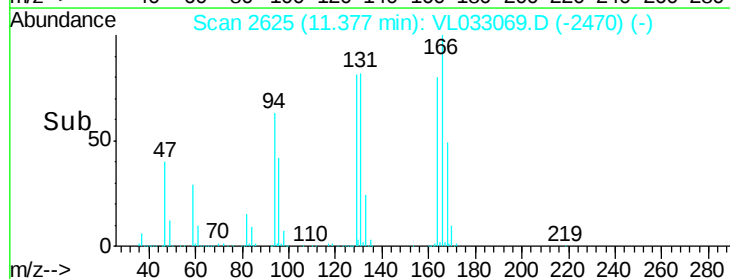
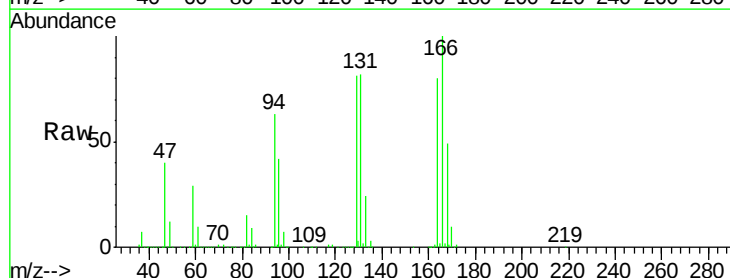
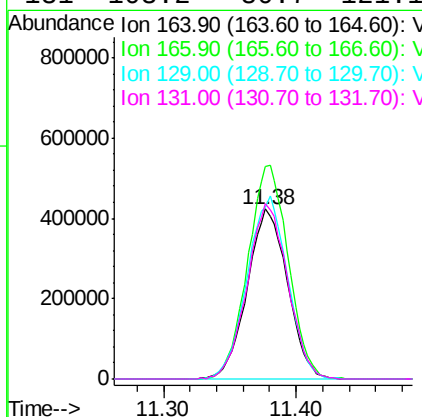
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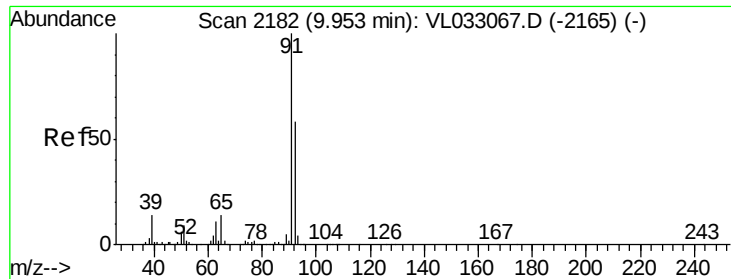
MMDadoda
1/8/2019 12:01:14 AM



#52
Tetrachloroethene
Concen: 10.200 ppbv
RT: 11.38 min Scan# 2625
Delta R.T. -0.00 min
Lab File: VL033069.D
Acq: 4 Jan 2019 14:50

Tgt Ion: 164 Resp: 892567
Ion Ratio Lower Upper
164 100
166 125.2 100.8 151.2
129 101.1 84.6 126.8
131 103.2 80.7 121.1





#53

Toluene

Concen: 10.512 ppbv

RT: 9.95 min Scan# 2181

Delta R.T. -0.00 min

Lab File: VL033069.D

Acq: 4 Jan 2019 14:50

Instrument :

MSVOA_L

ClientSampleId :

ICVVL010419

Tot Ion: 91 Resp: 2789061

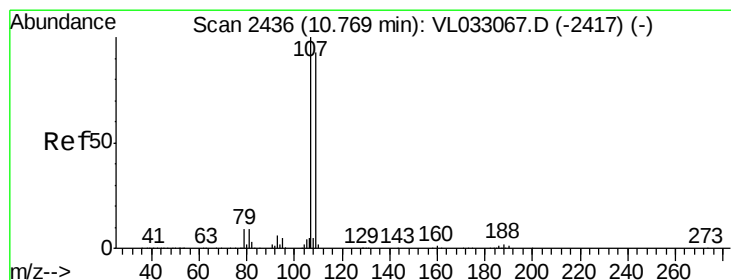
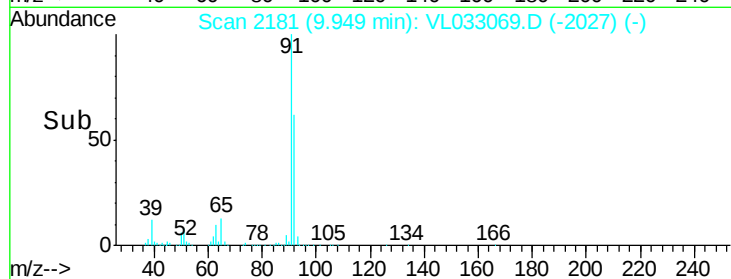
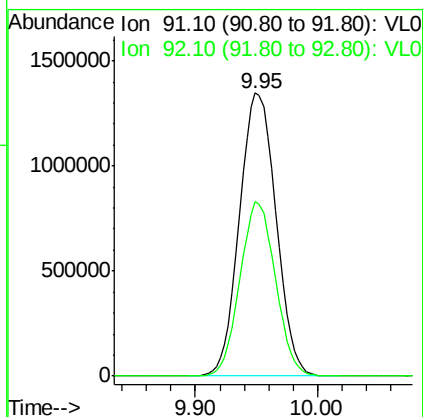
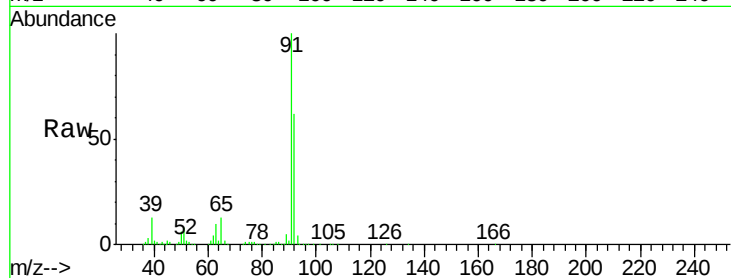
Ion Ratio Lower Upper

91 100

92 59.7 47.7 71.5

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#54

1,2-Dibromoethane

Concen: 10.245 ppbv

RT: 10.76 min Scan# 2434

Delta R.T. -0.00 min

Lab File: VL033069.D

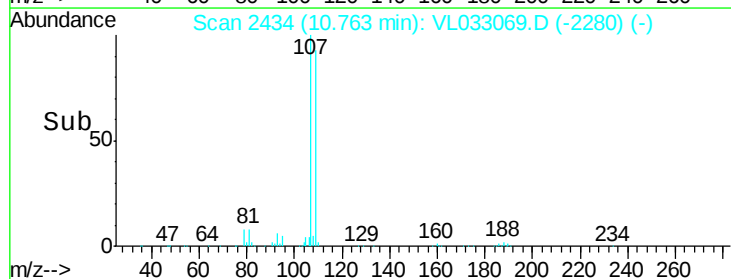
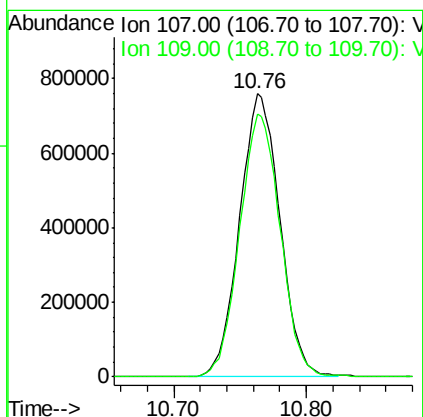
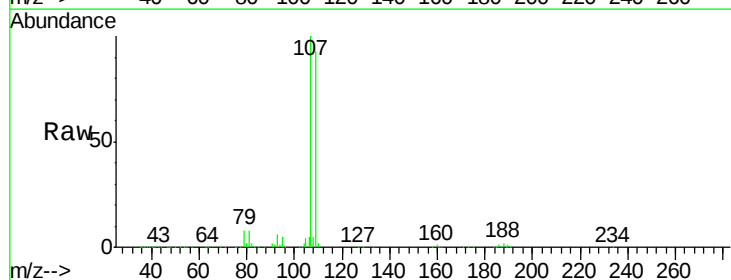
Acq: 4 Jan 2019 14:50

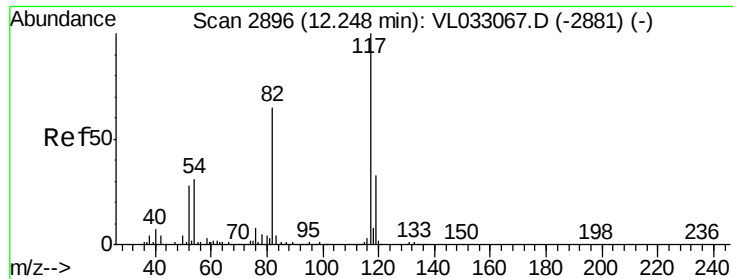
Tgt Ion: 107 Resp: 1603890

Ion Ratio Lower Upper

107 100

109 92.6 74.9 112.3





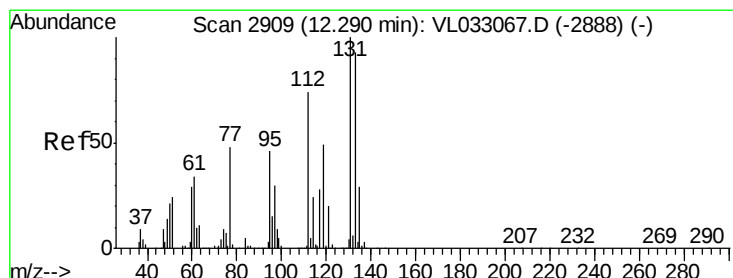
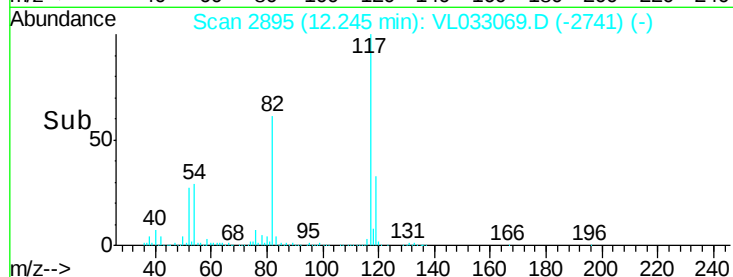
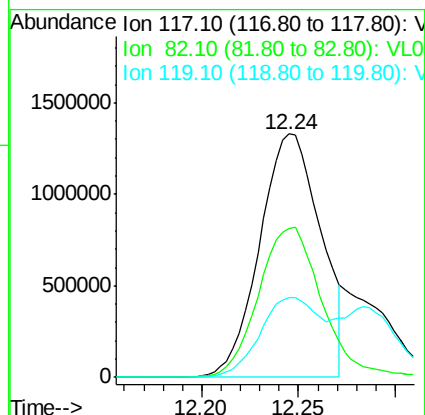
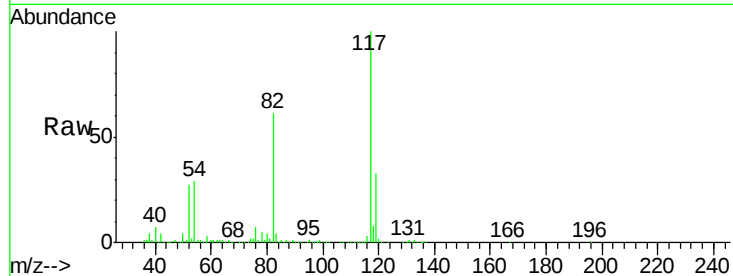
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.24 min Scan# 2895
Delta R.T. -0.00 min
Lab File: VL033069.D
Acq: 4 Jan 2019 14:50

Instrument :
MSVOA_L
ClientSampleId :
ICVVL010419

Tot Ion:117 Resp: 2909087
Ion Ratio Lower Upper
117 100
82 64.7 48.9 73.3
119 34.0 24.6 37.0

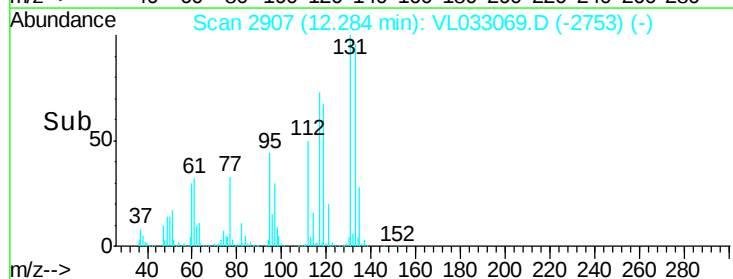
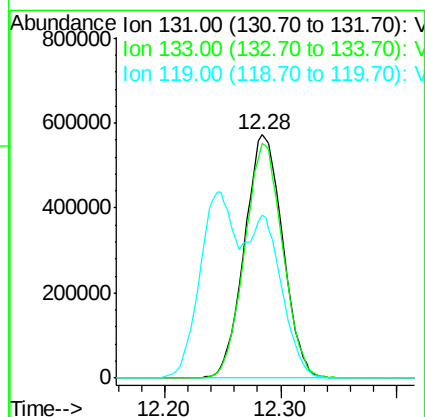
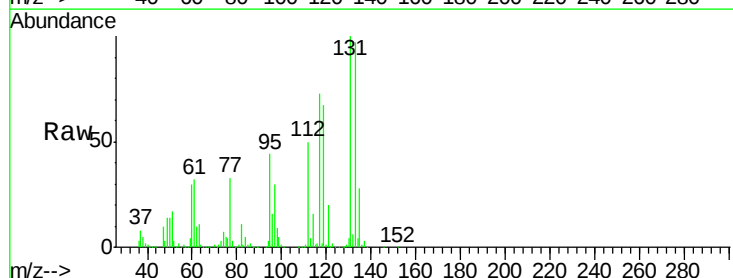
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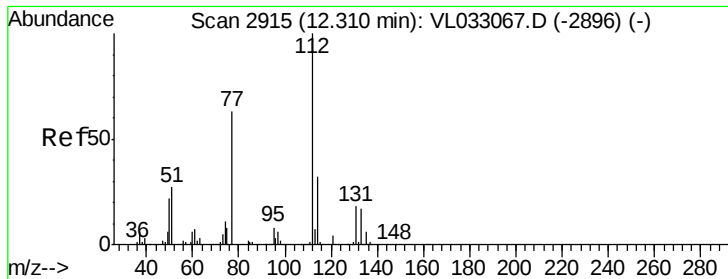
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#56
1,1,1,2-Tetrachloroethane
Concen: 8.734 ppbv
RT: 12.28 min Scan# 2907
Delta R.T. -0.00 min
Lab File: VL033069.D
Acq: 4 Jan 2019 14:50

Tgt Ion:131 Resp: 1312836
Ion Ratio Lower Upper
131 100
133 96.2 76.0 114.0
119 58.4 44.2 66.2





#57

Chlorobenzene

Concen: 9.047 ppbv

RT: 12.31 min Scan# 2915

Delta R.T. 0.00 min

Lab File: VL033069.D

Acq: 4 Jan 2019 14:50

Instrument :

MSVOA_L

ClientSampleId :

ICVVL010419

Tot Ion:112 Resp: 2196674

Ion Ratio Lower Upper

112 100

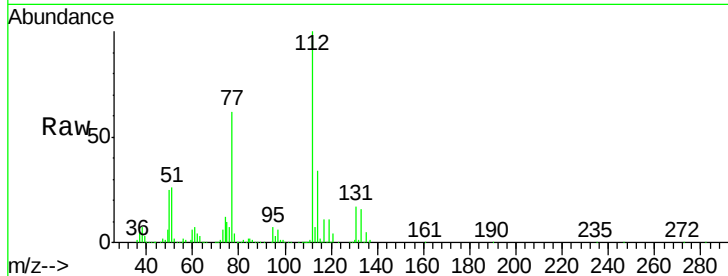
77 62.0 53.4 80.0

114 34.2 30.0 36.6

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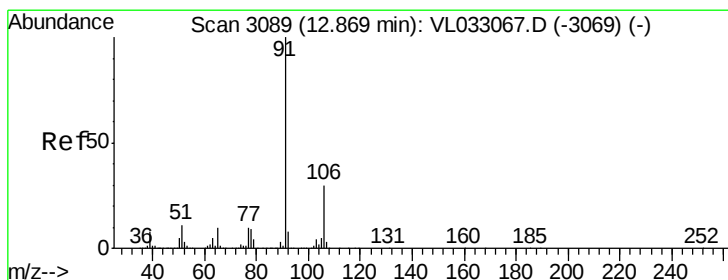
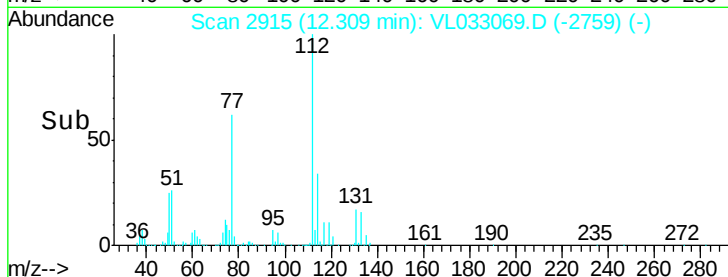
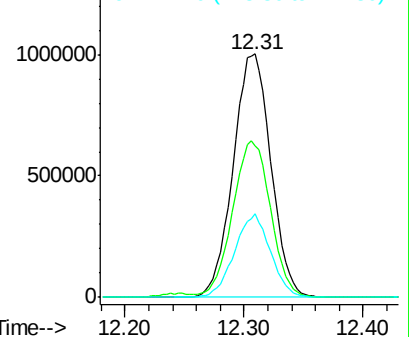
1/8/2019 12:01:14 AM



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: 10.360 ppbv

RT: 12.87 min Scan# 3089

Delta R.T. -0.00 min

Lab File: VL033069.D

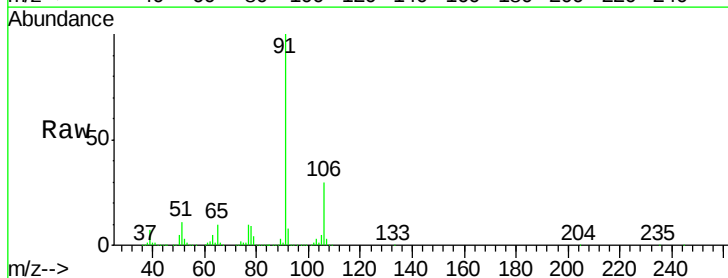
Acq: 4 Jan 2019 14:50

Tgt Ion: 91 Resp: 3805059

Ion Ratio Lower Upper

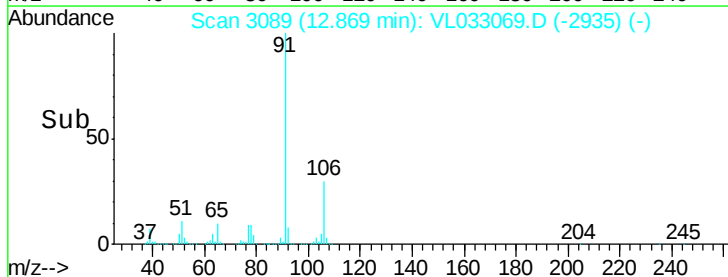
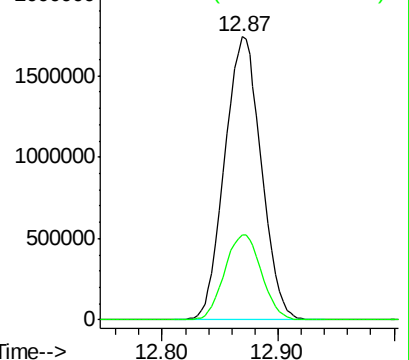
91 100

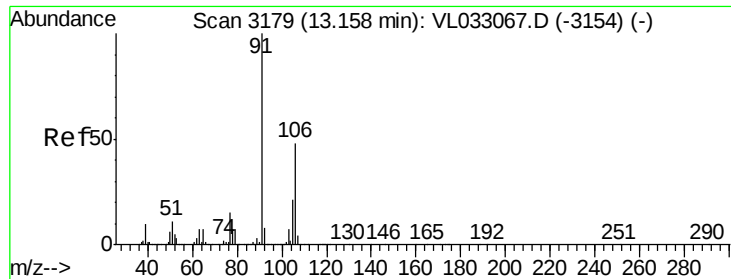
106 30.1 24.3 36.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 18.868 ppbv m

RT: 13.16 min Scan# 3179

Delta R.T. 0.03 min

Lab File: VL033069.D

Acq: 4 Jan 2019 14:50

Instrument :

MSVOA_L

ClientSampleId :

ICVVL010419

Tot Ion: 91 Resp: 6410784

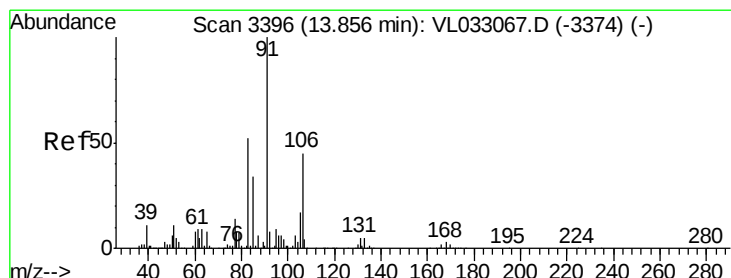
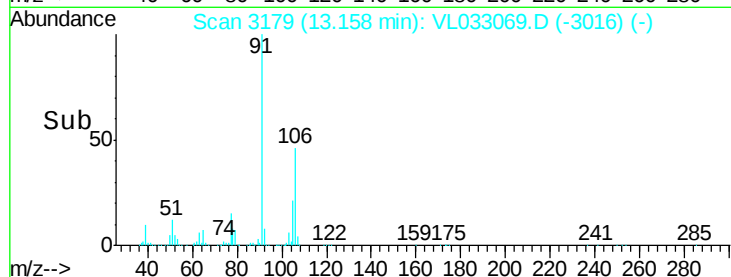
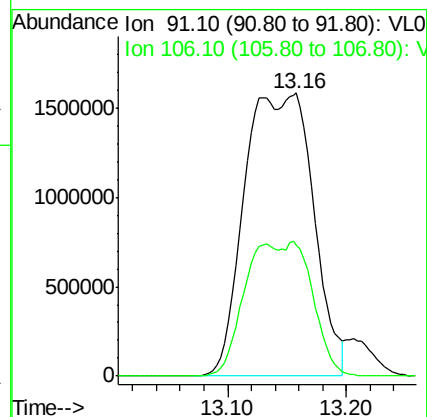
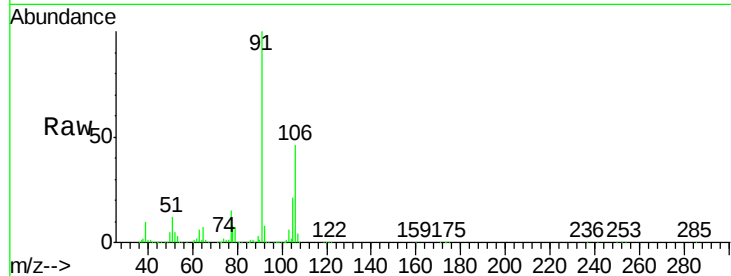
Ion Ratio Lower Upper

91 100

106 0.0 0.0 0.0

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#60

o-Xylene

Concen: 9.326 ppbv

RT: 13.86 min Scan# 3396

Delta R.T. -0.00 min

Lab File: VL033069.D

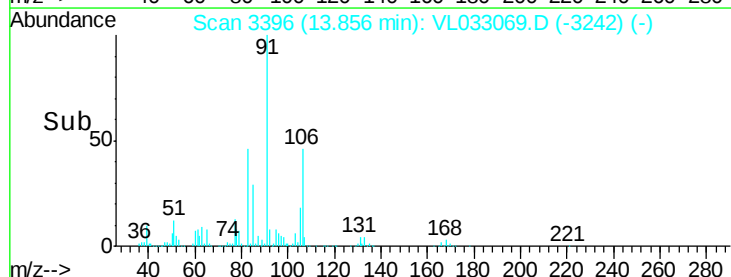
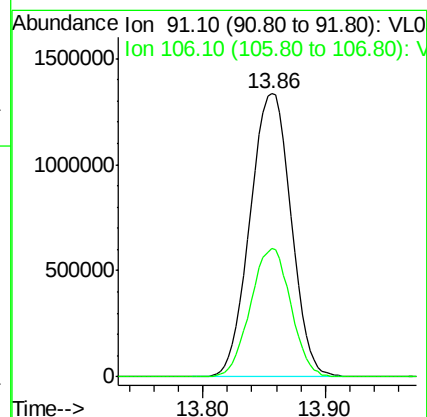
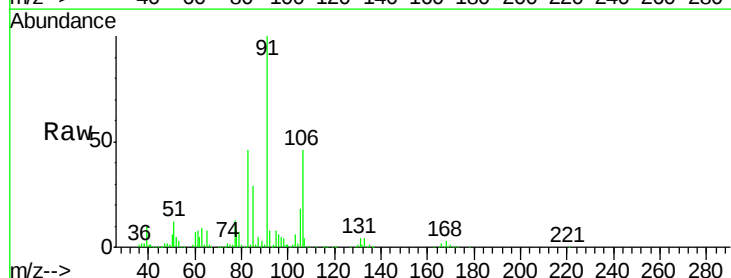
Acq: 4 Jan 2019 14:50

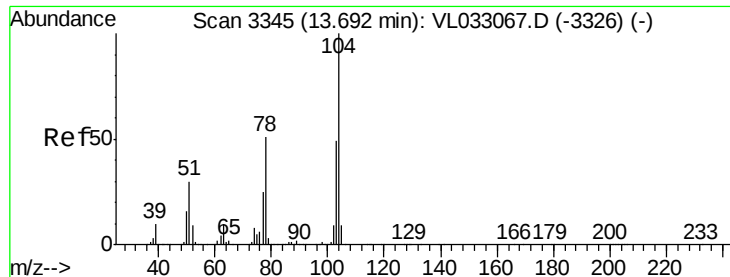
Tgt Ion: 91 Resp: 3102003

Ion Ratio Lower Upper

91 100

106 44.7 22.1 66.5





#61

Stvrene

Concen: 11.093 ppbv

RT: 13.69 min Scan# 3345

Delta R.T. -0.00 min

Lab File: VL033069.D

Acq: 4 Jan 2019 14:50

Instrument :

MSVOA_L

ClientSampleId :

ICVVL010419

Tot Ion:104 Resp: 2354418

Ion Ratio Lower Upper

104 100

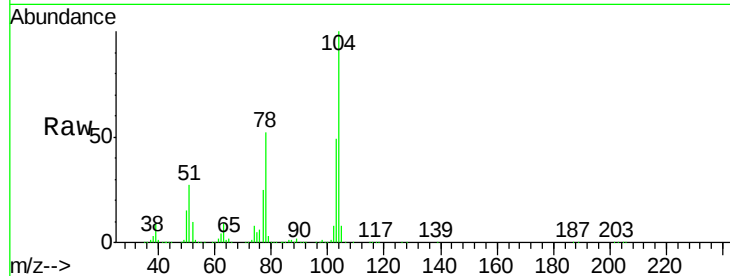
78 51.6 41.6 62.4

103 47.7 38.1 57.1

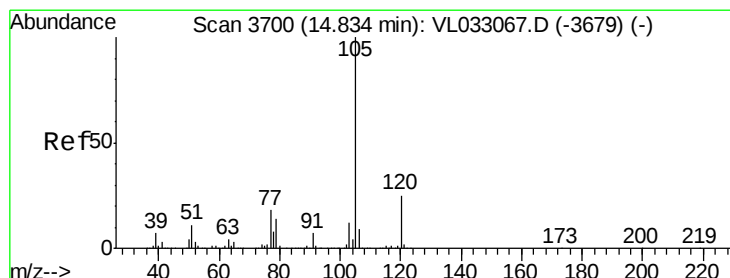
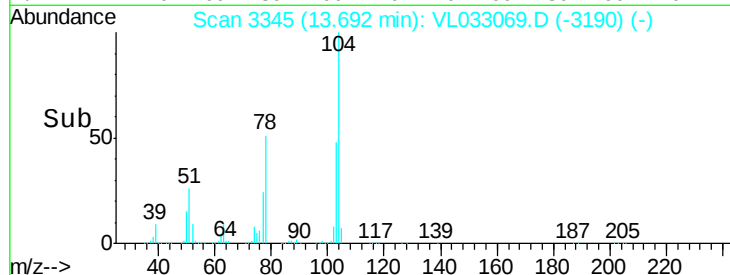
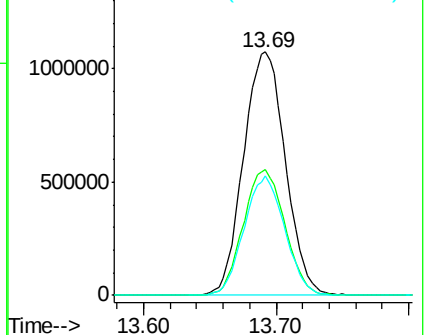
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Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VL0
Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 9.391 ppbv

RT: 14.83 min Scan# 3699

Delta R.T. -0.00 min

Lab File: VL033069.D

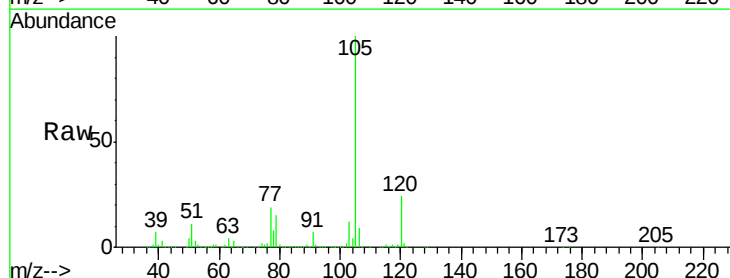
Acq: 4 Jan 2019 14:50

Tgt Ion:105 Resp: 4445256

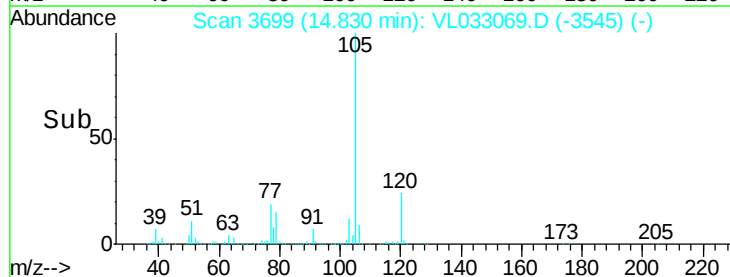
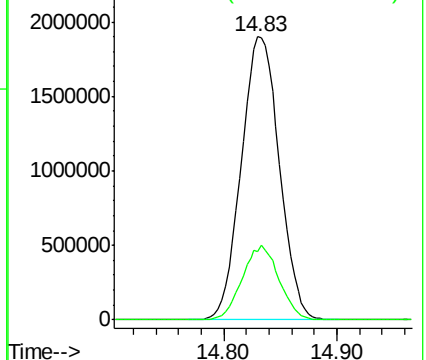
Ion Ratio Lower Upper

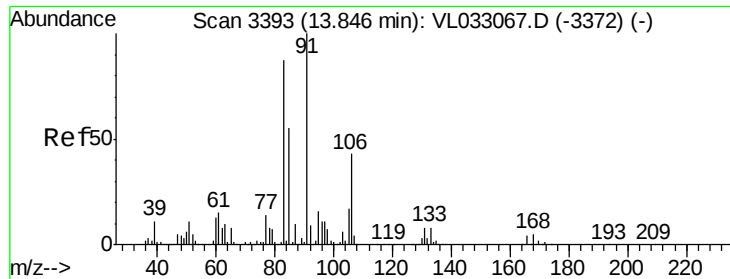
105 100

120 25.4 20.4 30.6



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





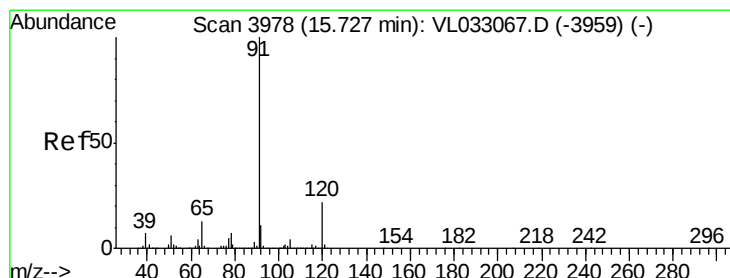
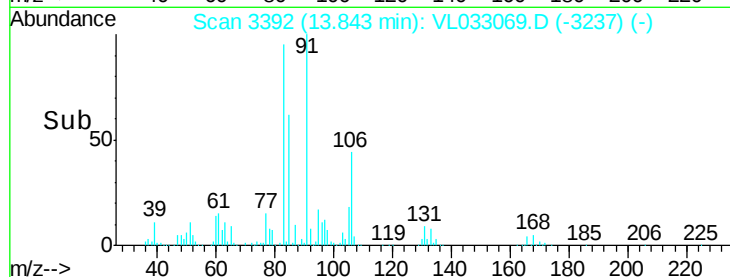
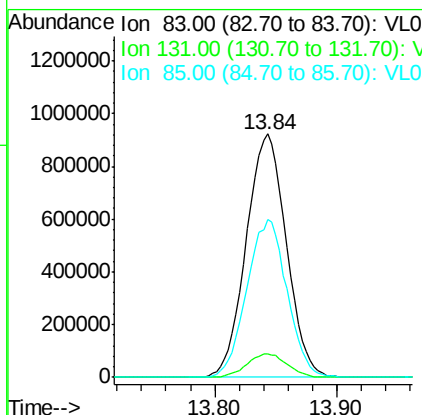
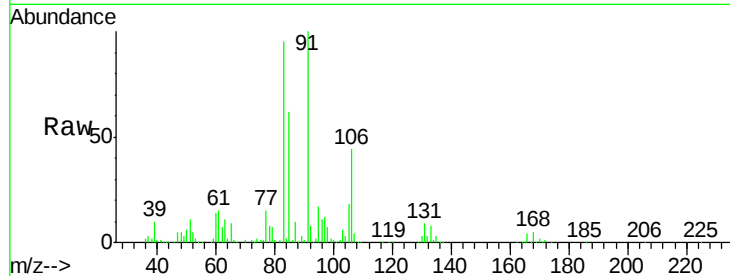
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.475 ppbv
 RT: 13.84 min Scan# 3392
 Delta R.T. -0.00 min
 Lab File: VL033069.D
 Acq: 4 Jan 2019 14:50

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL010419

Tot Ion	83	Resp	2094020
Ion Ratio	Lower	Upper	
83	100		
131	9.8	4.8	14.4
85	65.4	32.6	97.8

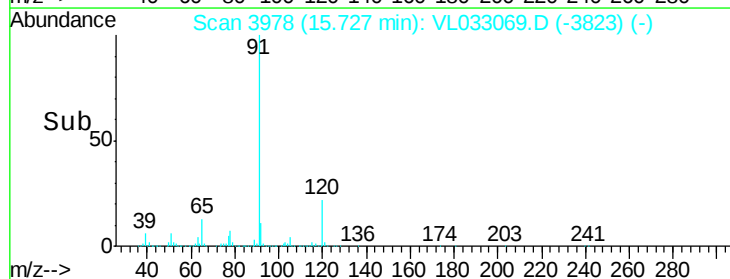
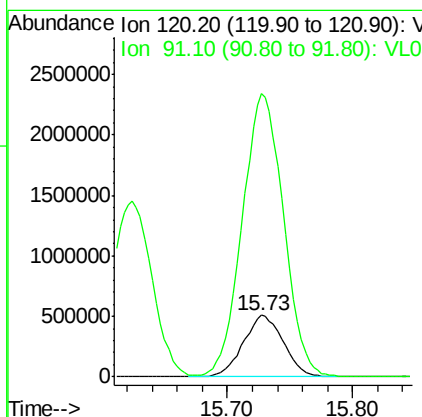
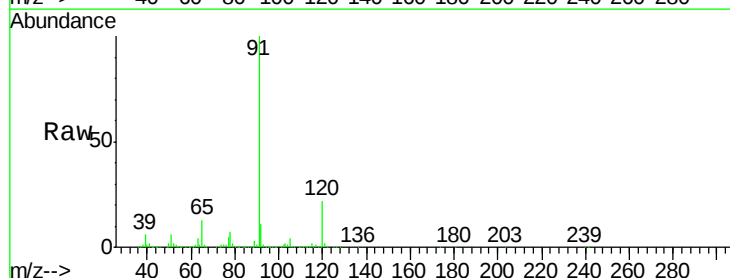
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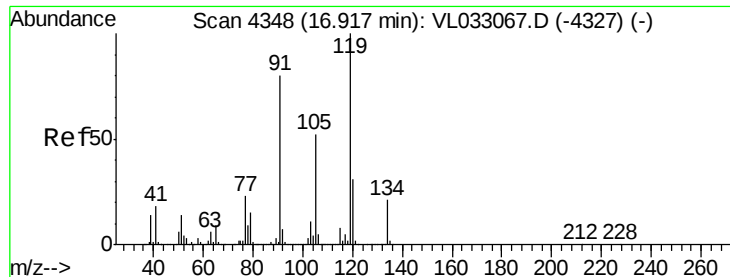
MMDadoda
 1/8/2019 12:01:14 AM



#64
 n-propylbenzene
 Concen: 9.441 ppbv
 RT: 15.73 min Scan# 3978
 Delta R.T. -0.00 min
 Lab File: VL033069.D
 Acq: 4 Jan 2019 14:50

Tgt Ion	120	Resp	1135350
Ion Ratio	Lower	Upper	
120	100		
91	472.2	378.7	568.1





#65

tert-Butylbenzene

Concen: 9.307 ppbv

RT: 16.92 min Scan# 4348

Delta R.T. -0.00 min

Lab File: VL033069.D

Acq: 4 Jan 2019 14:50

Instrument :

MSVOA_L

ClientSampleId :

ICVVL010419

Tot Ion:119 Resp: 3902460

Ion Ratio Lower Upper

119 100

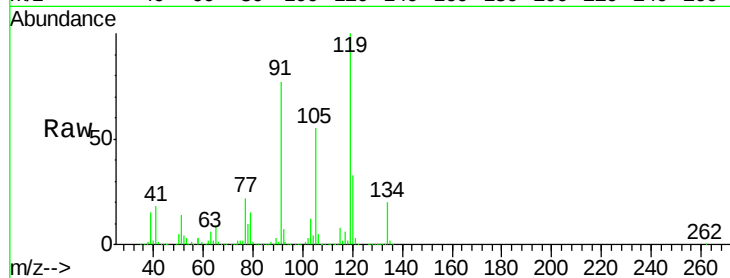
91 80.1 64.6 97.0

134 19.7 15.8 23.8

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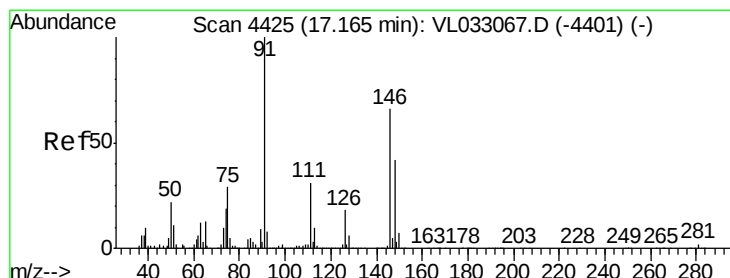
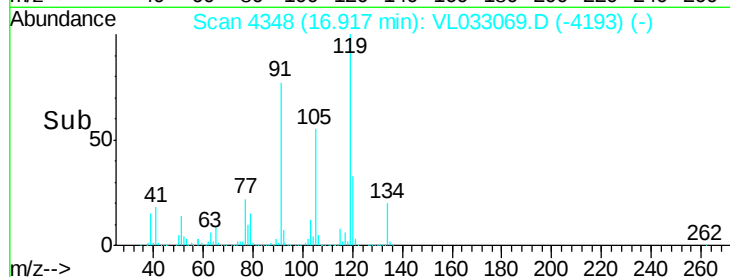
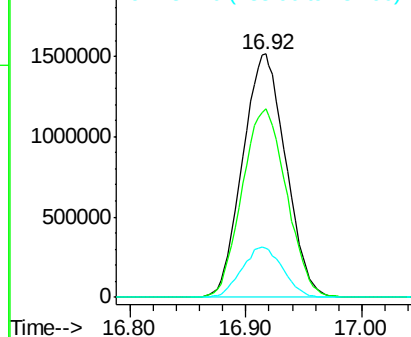


Abundance

Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): V

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 10.074 ppbv

RT: 17.16 min Scan# 4424

Delta R.T. -0.00 min

Lab File: VL033069.D

Acq: 4 Jan 2019 14:50

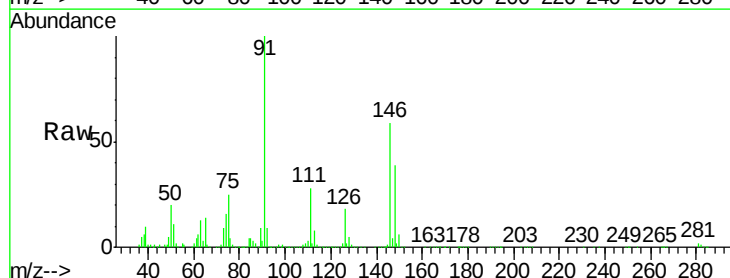
Tgt Ion: 91 Resp: 2407486

Ion Ratio Lower Upper

91 100

126 17.9 14.4 21.6

128 5.6 4.5 6.7

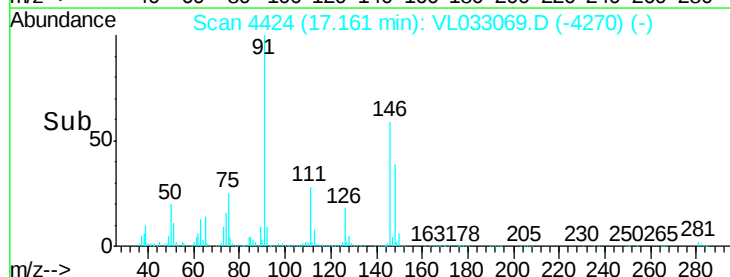
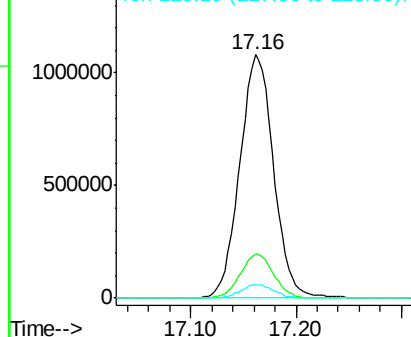


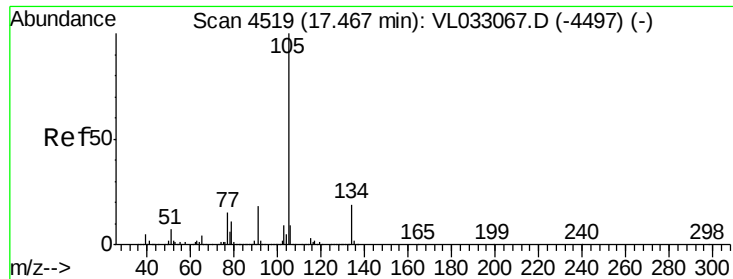
Abundance

Ion 91.10 (90.80 to 91.80): V

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 9.062 ppbv

RT: 17.46 min Scan# 4518

Delta R.T. -0.00 min

Lab File: VL033069.D

Acq: 4 Jan 2019 14:50

Instrument :

MSVOA_L

ClientSampleId :

ICVVL010419

Tot Ion: 105 Resp: 5437956

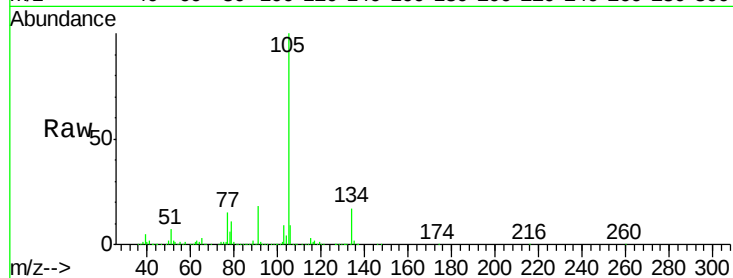
Ion Ratio Lower Upper

105 100

134 18.2 14.6 21.8

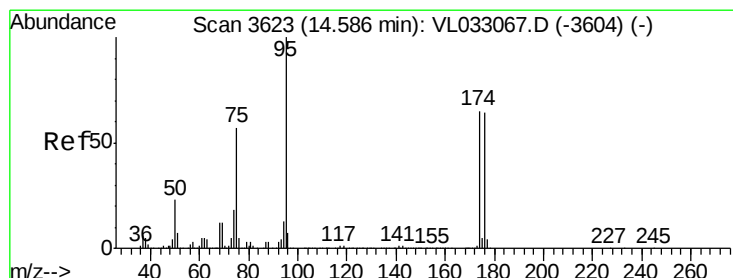
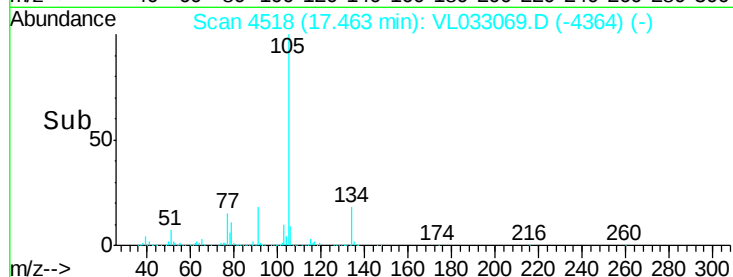
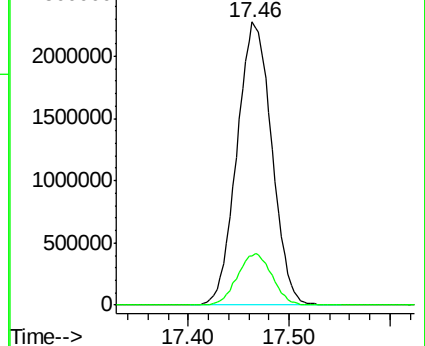
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.187 ppbv

RT: 14.58 min Scan# 3622

Delta R.T. -0.00 min

Lab File: VL033069.D

Acq: 4 Jan 2019 14:50

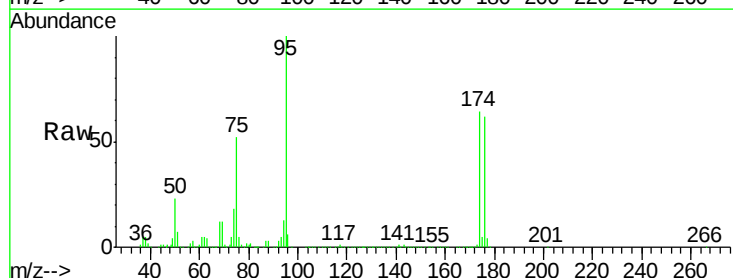
Tgt Ion: 95 Resp: 2271659

Ion Ratio Lower Upper

95 100

174 65.1 51.9 77.9

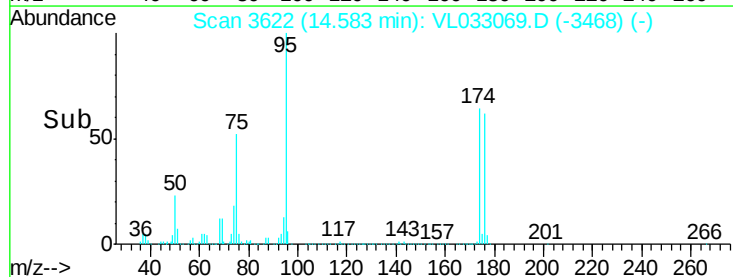
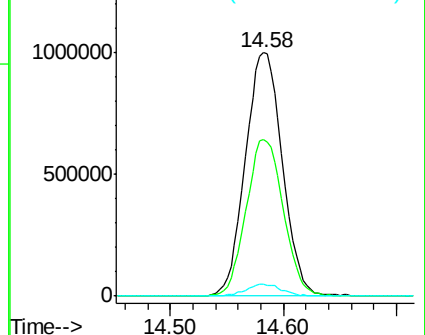
175 4.7 3.9 5.9

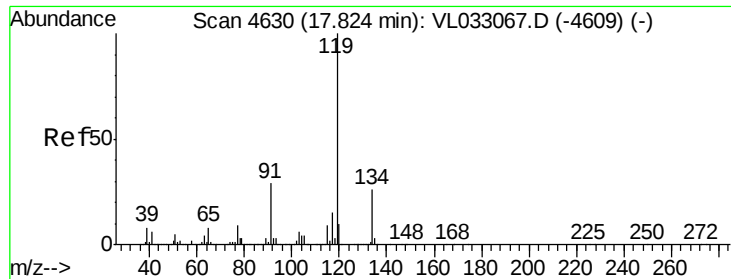


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





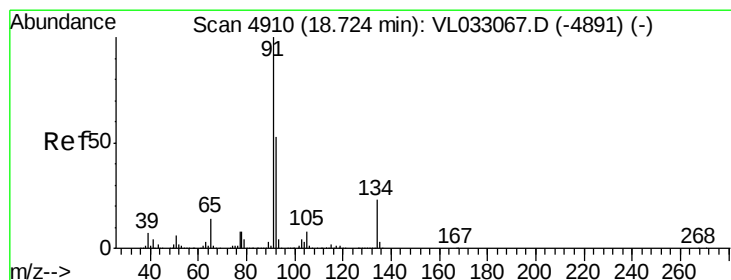
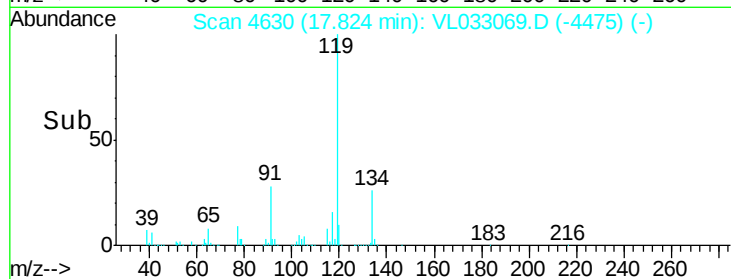
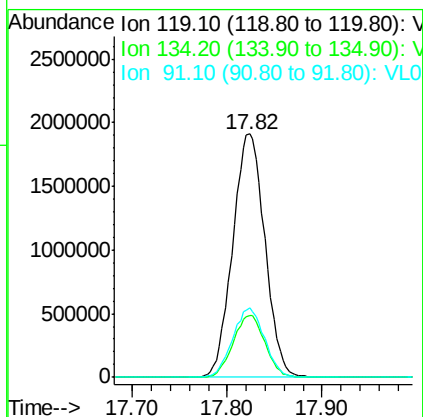
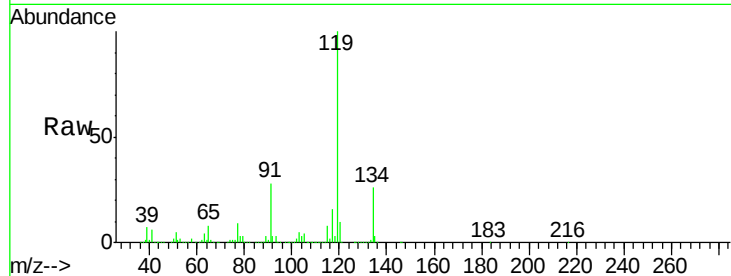
#69
 p-Isopropyltoluene
 Concen: 9.259 ppbv
 RT: 17.82 min Scan# 4630
 Delta R.T. -0.00 min
 Lab File: VL033069.D
 Acq: 4 Jan 2019 14:50

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL010419

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.3	20.1	30.1
91	28.6	23.0	34.4

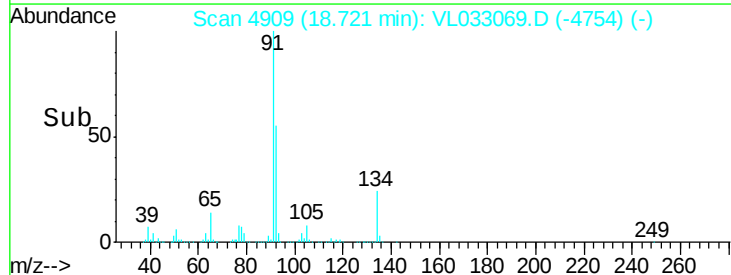
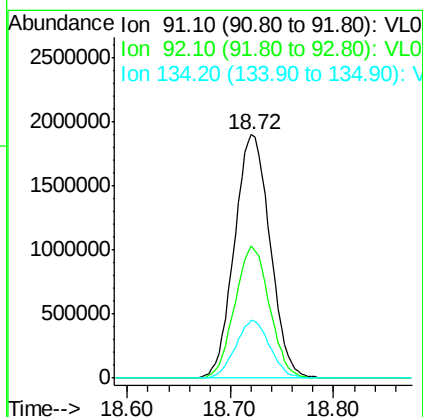
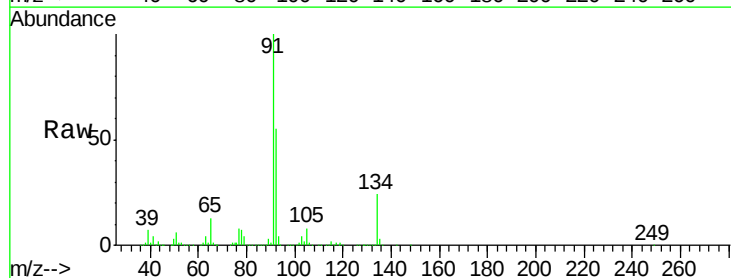
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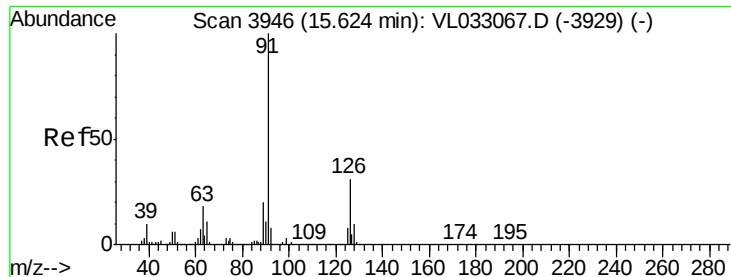
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#70
 n-Butylbenzene
 Concen: 9.297 ppbv
 RT: 18.72 min Scan# 4909
 Delta R.T. -0.00 min
 Lab File: VL033069.D
 Acq: 4 Jan 2019 14:50

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.0	42.4	63.6
134	22.9	18.0	27.0





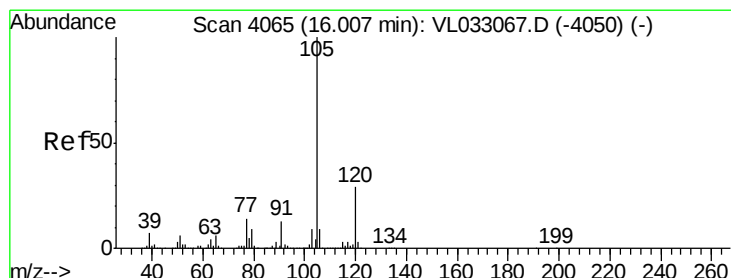
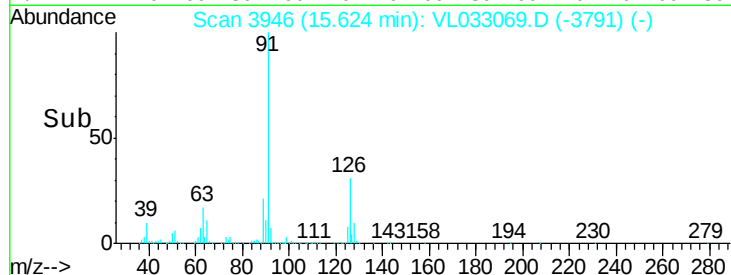
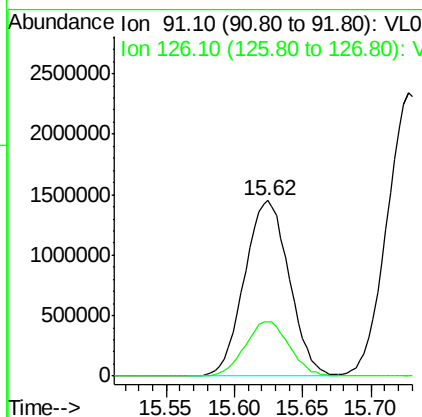
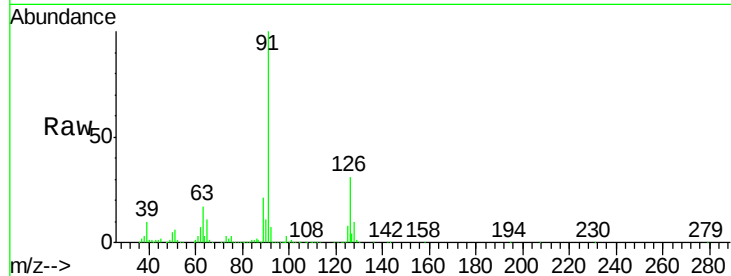
#71
 2-Chlorotoluene
 Concen: 9.818 ppbv
 RT: 15.62 min Scan# 3946
 Delta R.T. -0.00 min
 Lab File: VL033069.D
 Acq: 4 Jan 2019 14:50

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL010419

Tot Ion: 91 Resp: 3295968
 Ion Ratio Lower Upper
 91 100
 126 31.0 12.4 49.6

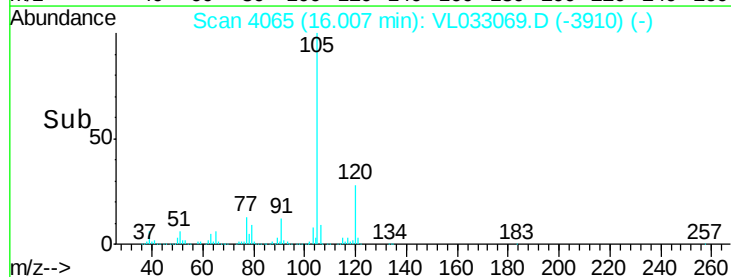
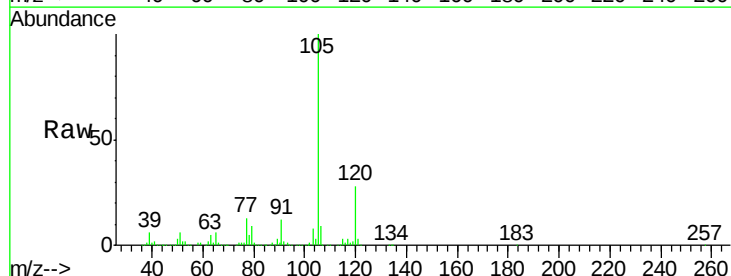
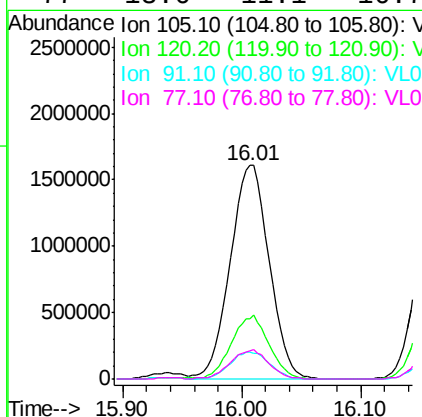
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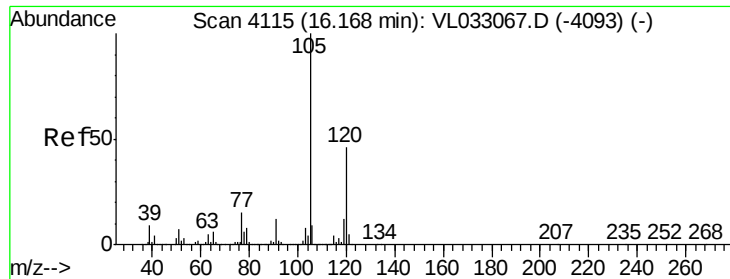
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#72
 4-Ethyltoluene
 Concen: 9.966 ppbv
 RT: 16.01 min Scan# 4065
 Delta R.T. -0.00 min
 Lab File: VL033069.D
 Acq: 4 Jan 2019 14:50

Tgt Ion: 105 Resp: 3642874
 Ion Ratio Lower Upper
 105 100
 120 28.8 23.0 34.6
 91 12.8 10.3 15.5
 77 13.6 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 9.529 ppbv

RT: 16.16 min Scan# 4114

Delta R.T. -0.00 min

Lab File: VL033069.D

Acq: 4 Jan 2019 14:50

Instrument :

MSVOA_L

ClientSampleId :

ICVVL010419

Tot Ion:105 Resp: 3436932

Ion Ratio Lower Upper

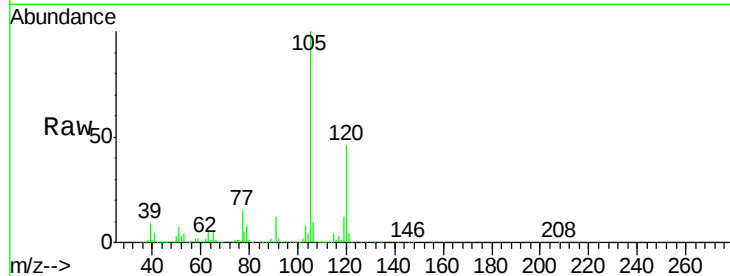
105 100

120 46.5 36.1 54.1

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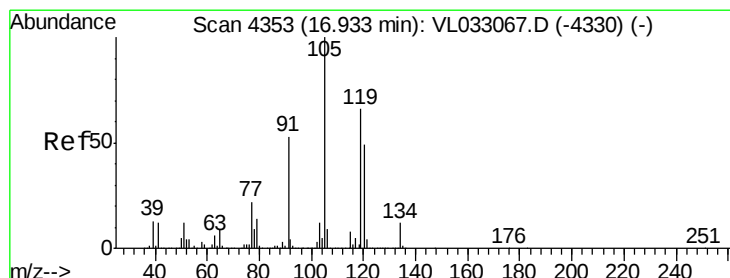
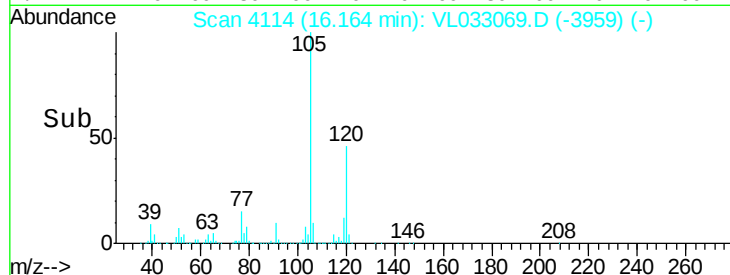
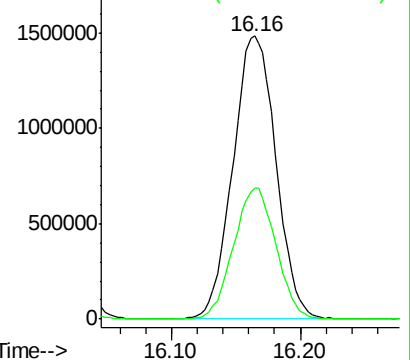
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 8.779 ppbv

RT: 16.93 min Scan# 4353

Delta R.T. -0.00 min

Lab File: VL033069.D

Acq: 4 Jan 2019 14:50

Tgt Ion:105 Resp: 3506904

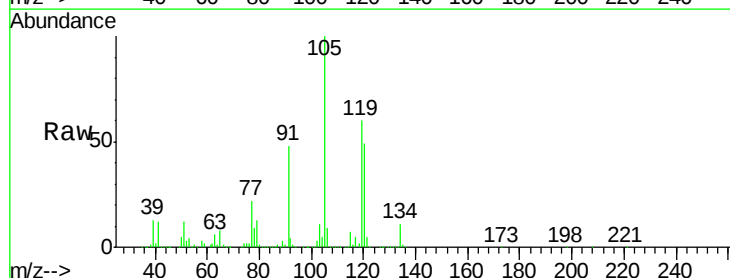
Ion Ratio Lower Upper

105 100

120 49.1 37.0 55.4

91 47.9 35.4 53.0

77 21.8 17.1 25.7

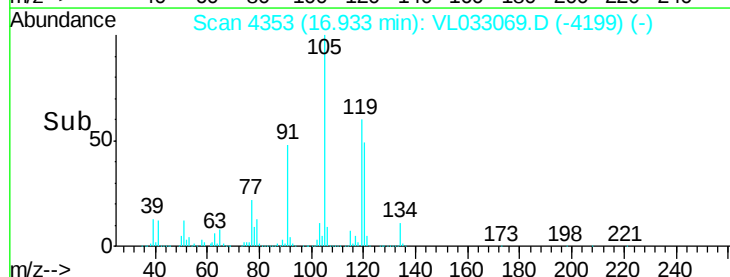
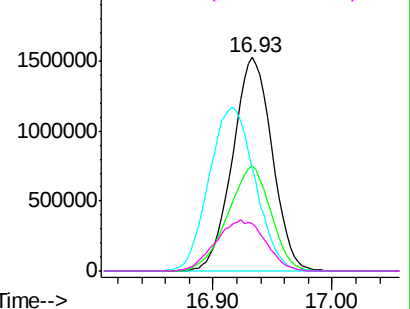


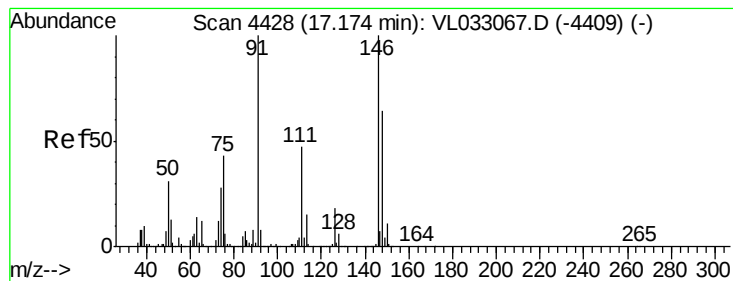
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#75

1,3-Dichlorobenzene

Concen: 8.421 ppbv

RT: 17.17 min Scan# 4428

Delta R.T. -0.00 min

Lab File: VL033069.D

Acq: 4 Jan 2019 14:50

Instrument :

MSVOA_L

ClientSampleId :

ICVVL010419

Tot Ion:146 Resp: 1980071

Ion Ratio Lower Upper

146 100

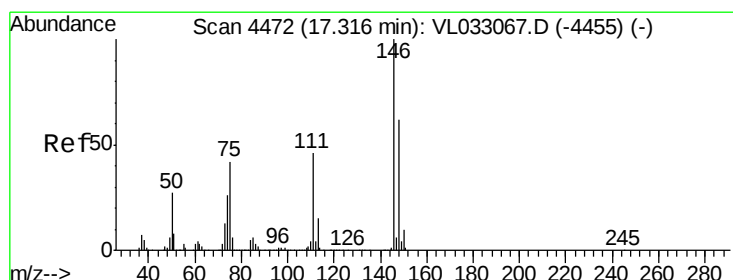
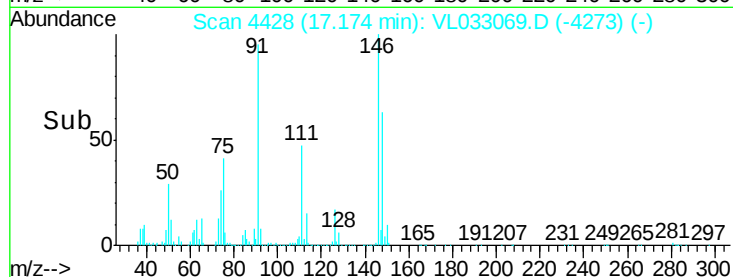
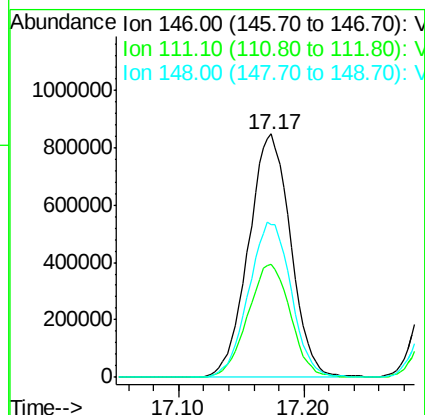
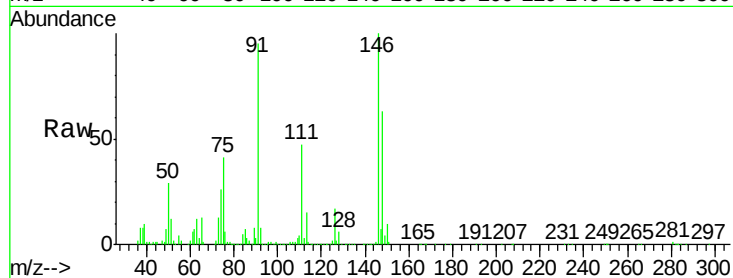
111 46.9 23.4 70.2

148 64.5 32.1 96.3

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#76

1,4-Dichlorobenzene

Concen: 9.101 ppbv

RT: 17.32 min Scan# 4472

Delta R.T. -0.00 min

Lab File: VL033069.D

Acq: 4 Jan 2019 14:50

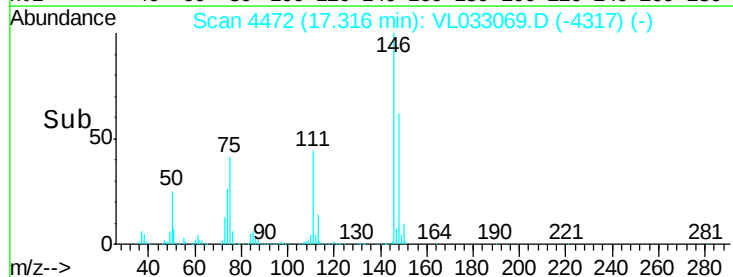
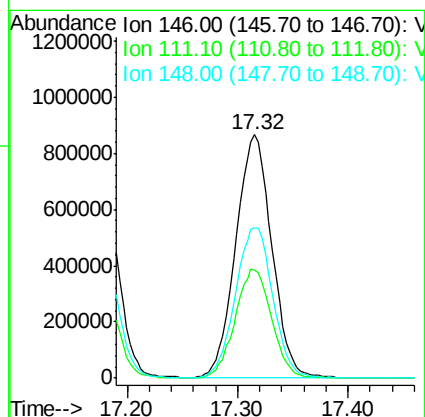
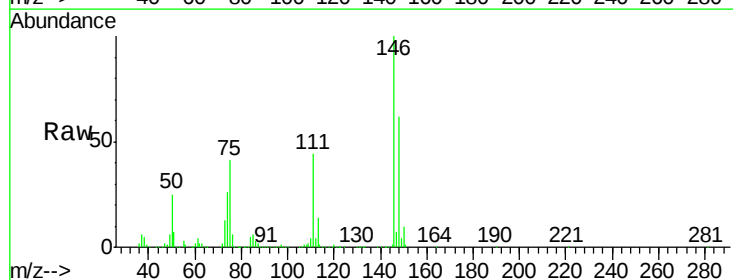
Tgt Ion:146 Resp: 1949282

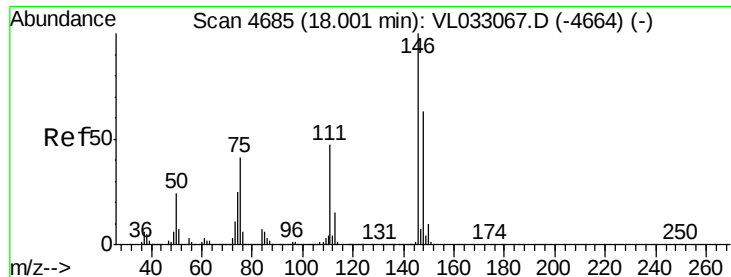
Ion Ratio Lower Upper

146 100

111 45.8 22.7 68.1

148 64.7 32.4 97.2





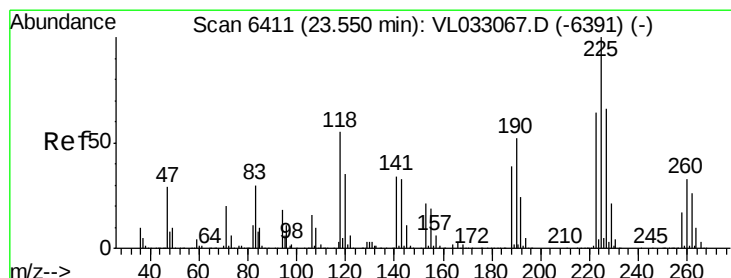
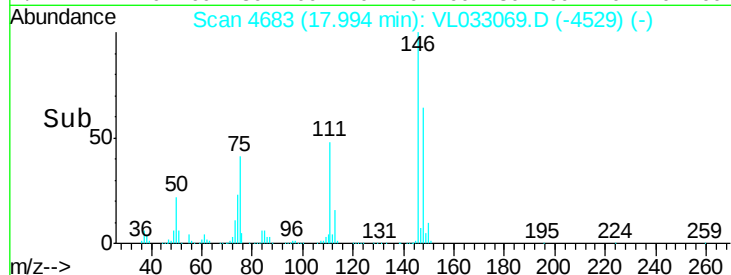
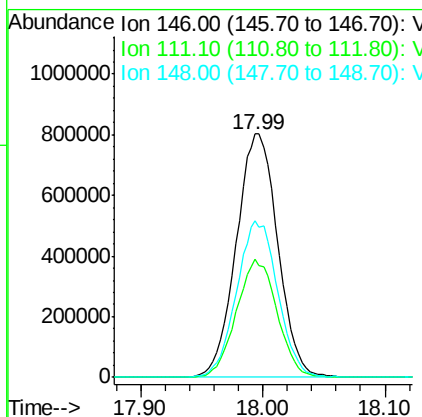
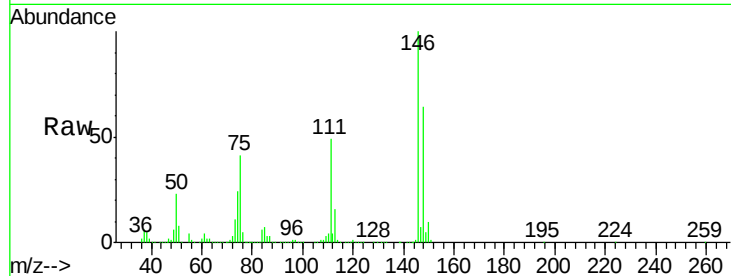
#77
 1,2-Dichlorobenzene
 Concen: 8.907 ppbv
 RT: 17.99 min Scan# 4683
 Delta R.T. -0.00 min
 Lab File: VL033069.D
 Acq: 4 Jan 2019 14:50

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL010419

Tot Ion:146 Resp: 1885945
 Ion Ratio Lower Upper
 146 100
 111 47.8 24.4 73.2
 148 63.8 32.3 96.9

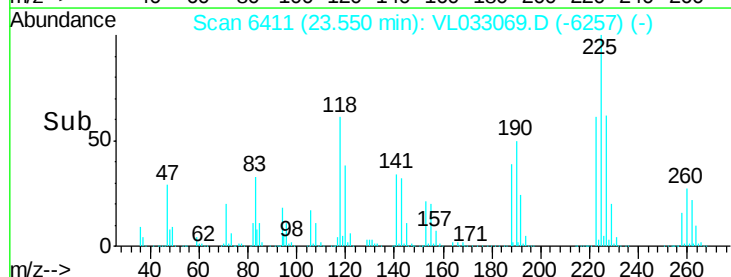
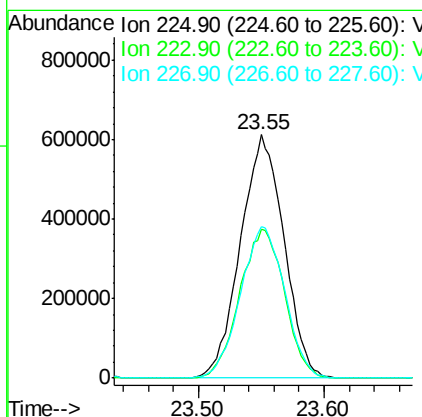
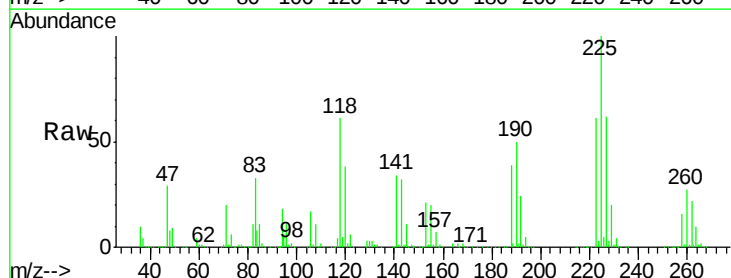
Manual Integrations
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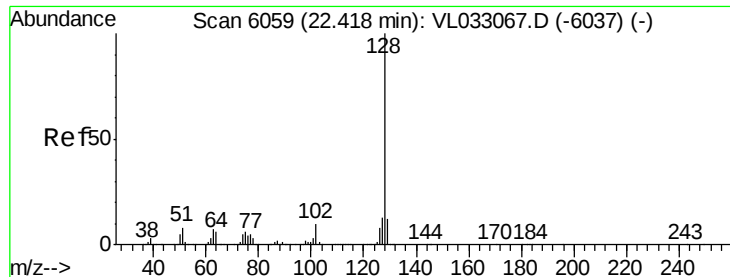
MMDadoda
 1/8/2019 12:01:14 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 9.020 ppbv
 RT: 23.55 min Scan# 6411
 Delta R.T. -0.00 min
 Lab File: VL033069.D
 Acq: 4 Jan 2019 14:50

Tgt Ion:225 Resp: 1467023
 Ion Ratio Lower Upper
 225 100
 223 63.3 51.0 76.6
 227 63.7 51.0 76.4





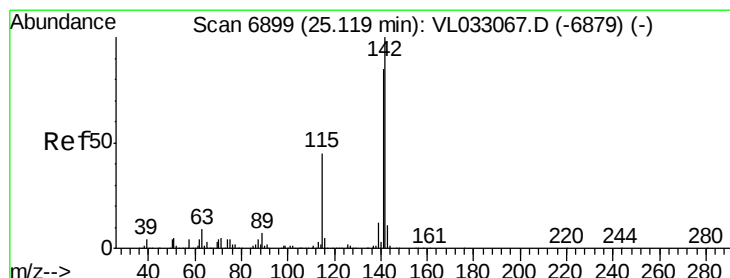
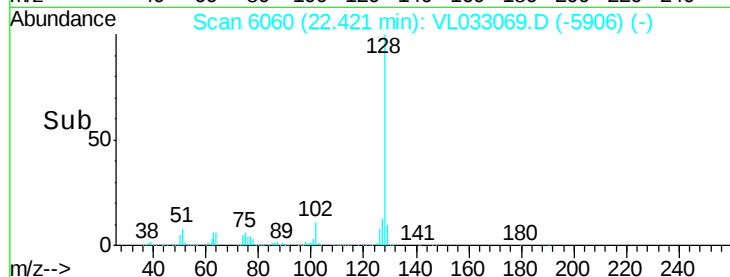
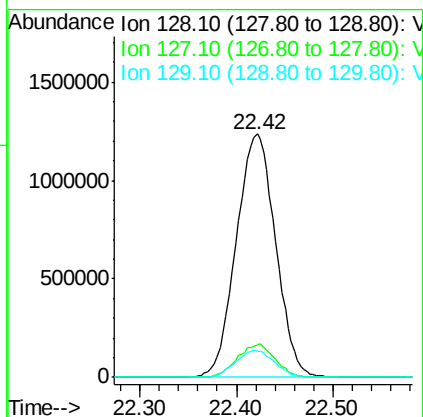
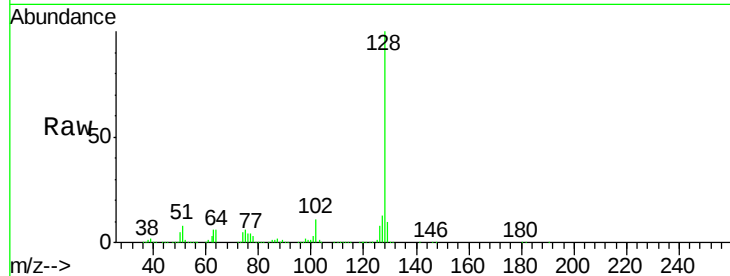
#79
Naphthalene
Concen: 10.346 ppbv
RT: 22.42 min Scan# 6060
Delta R.T. -0.00 min
Lab File: VL033069.D
Acq: 4 Jan 2019 14:50

Instrument :
MSVOA_L
ClientSampleId :
ICVVL010419

Tot Ion:128 Resp: 3481142
Ion Ratio Lower Upper
128 100
127 13.1 11.0 16.6
129 10.5 9.4 14.0

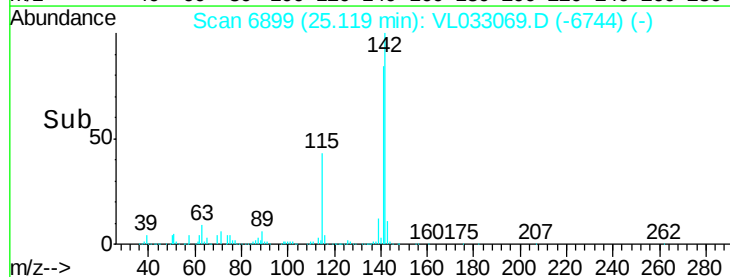
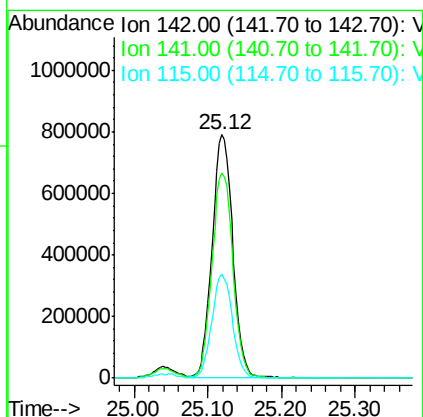
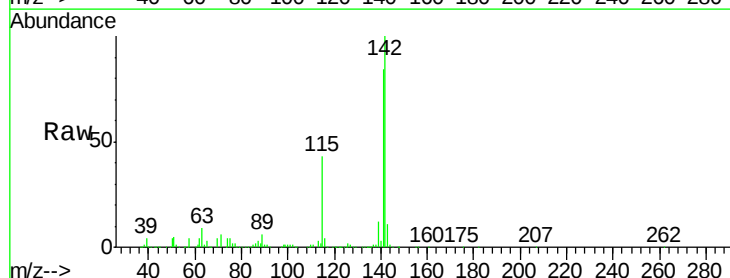
Manual Integrations
APPROVED

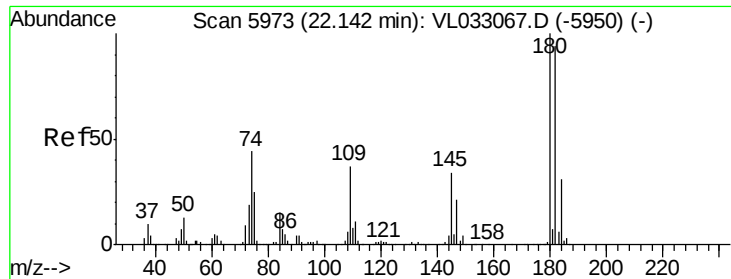
MMDadoda
1/8/2019 12:01:14 AM



#80
Naphthalene,2-methyl-
Concen: 15.161 ppbv
RT: 25.12 min Scan# 6899
Delta R.T. -0.00 min
Lab File: VL033069.D
Acq: 4 Jan 2019 14:50

Tgt Ion:142 Resp: 1547973
Ion Ratio Lower Upper
142 100
141 85.5 68.6 103.0
115 42.4 35.6 53.4





#81
 1,2,4-Trichlorobenzene
 Concen: 10.048 ppbv
 RT: 22.14 min Scan# 5973
 Delta R.T. -0.00 min
 Lab File: VL033069.D
 Acq: 4 Jan 2019 14:50

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL010419

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.3	76.1	114.1
184	30.4	24.6	37.0

Manual Integrations
 APPROVED

MMDadoda
 1/8/2019 12:01:14 AM

