

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061319\
 Data File : VL033901.D
 Acq On : 13 Jun 2019 17:11
 Operator : SY/AP
 Sample : VL0613ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0613ABS01

Manual Integrations
 APPROVED

MMDadoda
 6/17/2019 12:37:04 AM

Quant Time: Jun 14 06:54:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 0
 QLast Update : Fri Jun 07 08:53:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.75	49	1059525	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2294715	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2553257m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.56	95	1972500	9.41	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.10%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.07	85	1298159	7.551	ppbv 98
3) Chlorodifluoromethane	3.00	51	1026647	8.231	ppbv 99
4) Chloromethane	3.16	50	588004	8.265	ppbv 99
5) Vinyl Chloride	3.28	62	594781	9.010	ppbv 99
6) Bromomethane	3.50	94	380978	8.687	ppbv 95
7) Chloroethane	3.59	64	226338	8.669	ppbv 96
8) Dichlorotetrafluoroethane	3.21	85	1581865	8.609	ppbv 100
9) Propene	3.03	41	409579	8.776	ppbv 100
10) Heptane	8.24	43	1238774	10.501	ppbv 99
11) Trichlorofluoromethane	3.99	101	2122343	9.567	ppbv 96
12) 1,1,2-Trichlorotrifluoroet	4.54	101	1390786	9.276	ppbv 99
13) Ethanol	3.64	45	110362	7.268	ppbv 97
14) Bromoethene	3.78	108	508064	9.094	ppbv 98
15) Acetone	3.89	43	1286682	8.327	ppbv 100
16) 1,3-Butadiene	3.35	39	529457	9.002	ppbv 99
17) tert-Butyl alcohol	4.34	59	1239808	10.264	ppbv 100
18) 1,1-Dichloroethene	4.34	96	603948	9.537	ppbv 96
19) Isopropyl Alcohol	4.01	45	944734	10.702	ppbv 99
20) Methylene Chloride	4.40	84	508547	8.439	ppbv 100
21) Allyl Chloride	4.47	41	855962	9.751	ppbv 99
22) trans-1,2-Dichloroethene	4.95	96	628470	9.415	ppbv 99
23) Vinyl Acetate	5.15	43	1749357	9.740	ppbv 99
24) 1,1-Dichloroethane	5.08	63	1286081	9.206	ppbv 99
25) Ethyl Acetate	5.76	43	2347395	9.975	ppbv 100
26) Hexane	5.77	57	1049092	9.791	ppbv 98
27) Carbon Disulfide	4.61	76	1539376	10.341	ppbv 99
28) Methyl tert-Butyl Ether	5.10	73	1637281	10.105	ppbv 100
29) Chloroform	5.84	83	1828150	9.962	ppbv 100
30) Cyclohexane	7.23	84	810088	10.700	ppbv 99
31) cis-1,2-Dichloroethene	5.63	61	1053128	11.208	ppbv 99
32) 1,1,1-Trichloroethane	6.61	97	1842323	10.407	ppbv 99
34) 2-Butanone	5.32	43	1407017	10.869	ppbv 99
35) Carbon Tetrachloride	7.12	117	1967631	11.098	ppbv 99
36) Benzene	6.99	78	1977814	11.283	ppbv 98
37) 1,2-Dichloroethane	6.40	62	1404935	10.837	ppbv 100
38) Trichloroethene	7.95	130	827866	12.130	ppbv 92
39) 1,2-Dichloropropane	7.72	63	755870	11.173	ppbv 96
40) 1,4-Dioxane	7.94	88	335305	12.152	ppbv # 1
41) Tetrahydrofuran	6.13	42	804390	12.242	ppbv 99
42) Bromodichloromethane	7.90	83	1894414	10.935	ppbv 99
43) Methyl Methacrylate	8.12	69	800143	12.205	ppbv 99

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Manual Integrations
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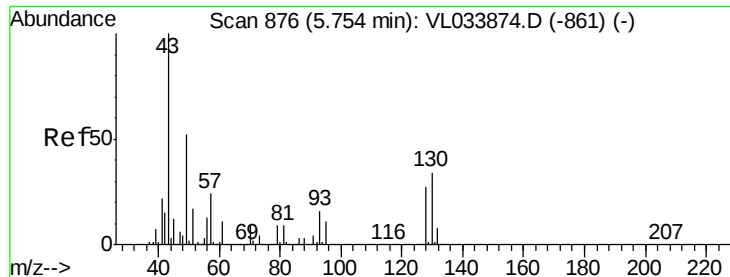
MMDadoda
 6/17/2019 12:37:04 AM

Quant Time: Jun 14 06:54:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 0
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 Response via : Initial Calibration

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

44) 2,2,4-Trimethylpentane	7.98	57	3444765	11.051	ppbv	99
45) t-1,3-Dichloropropene	9.40	75	1111812	12.925	ppbv	99
46) cis-1,3-Dichloropropene	8.82	75	1233792	12.519	ppbv	98
47) 1,1,2-Trichloroethane	9.61	97	859539	10.658	ppbv	98
48) Dibromochloromethane	10.44	129	1693758	11.686	ppbv	99
49) Bromoform	13.19	173	1524184	11.913	ppbv	100
50) 4-Methyl-2-Pentanone	8.86	43	2181160	11.299	ppbv	100
51) 2-Hexanone	10.26	43	1810522	12.011	ppbv #	100
52) Tetrachloroethene	11.36	164	813237	13.185	ppbv	96
53) Toluene	9.94	91	2353824	12.134	ppbv	99
54) 1,2-Dibromoethane	10.75	107	1361721	11.201	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.27	131	1125886	10.094	ppbv	97
57) Chlorobenzene	12.29	112	1876278	9.812	ppbv	100
58) Ethyl Benzene	12.85	91	3338750	11.598	ppbv	99
59) m/p-Xylene	13.13	91	5677703m	21.689	ppbv	
60) o-Xylene	13.84	91	2917509	10.794	ppbv	100
61) Styrene	13.67	104	2098633	11.998	ppbv	100
62) Isopropylbenzene	14.81	105	3878453	10.647	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.82	83	2074872	10.198	ppbv	99
64) n-propylbenzene	15.71	120	1024764	10.985	ppbv	96
65) tert-Butylbenzene	16.90	119	3685020	10.933	ppbv	100
66) Benzyl Chloride	17.15	91	1996594	11.689	ppbv	100
67) sec-Butylbenzene	17.45	105	5158832	10.910	ppbv	100
69) p-Isopropyltoluene	17.80	119	4279168	10.876	ppbv	100
70) n-Butylbenzene	18.70	91	4445252	10.315	ppbv	100
71) 2-Chlorotoluene	15.60	91	2964303	11.046	ppbv	99
72) 4-Ethyltoluene	15.99	105	3454652	11.232	ppbv	99
73) 1,3,5-Trimethylbenzene	16.15	105	3317343	10.950	ppbv	98
74) 1,2,4-Trimethylbenzene	16.91	105	3563807	10.206	ppbv	97
75) 1,3-Dichlorobenzene	17.15	146	2096018	9.585	ppbv	100
76) 1,4-Dichlorobenzene	17.30	146	2039804	10.159	ppbv	100
77) 1,2-Dichlorobenzene	17.97	146	1964974	9.737	ppbv	100
78) Hexachloro-1,3-Butadiene	23.53	225	1461195	9.270	ppbv	99
79) Naphthalene	22.39	128	2653781	9.508	ppbv	99
80) Naphthalene, 2-methyl-	25.10	142	1014086	9.106	ppbv #	95
81) 1,2,4-Trichlorobenzene	22.12	180	1605429	9.111	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 876

Delta R.T. -0.00 min

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VL0613ABS01

Tot Ion: 49 Resp: 1059525

Ion Ratio Lower Upper

49 100

128 50.7 25.5 76.5

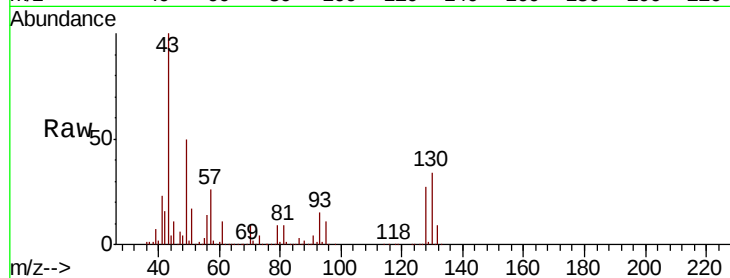
130 65.2 32.5 97.4

Manual Integrations

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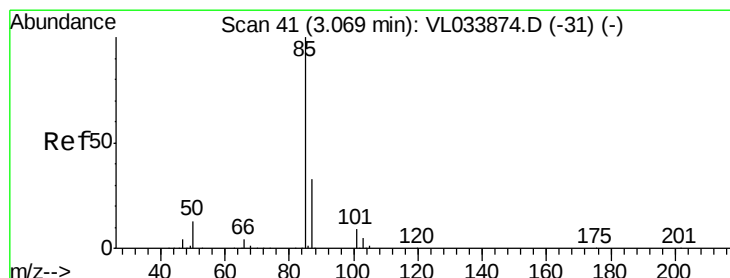
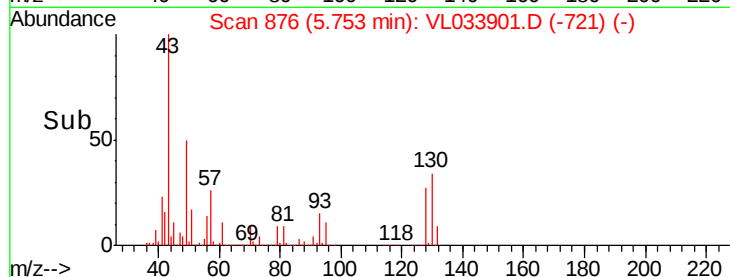
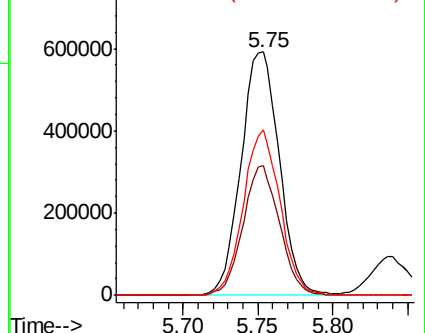
6/17/2019 12:37:04 AM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 7.551 ppbv

RT: 3.07 min Scan# 41

Delta R.T. -0.00 min

Lab File: VL033901.D

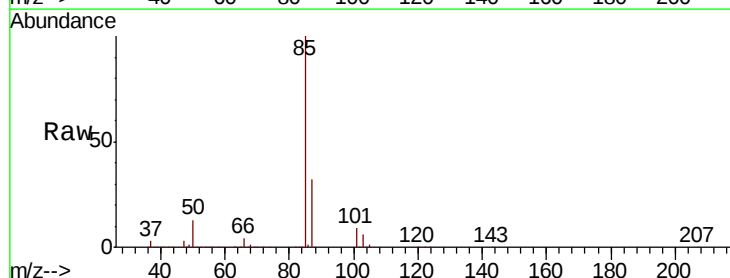
Acq: 13 Jun 2019 17:11

Tgt Ion: 85 Resp: 1298159

Ion Ratio Lower Upper

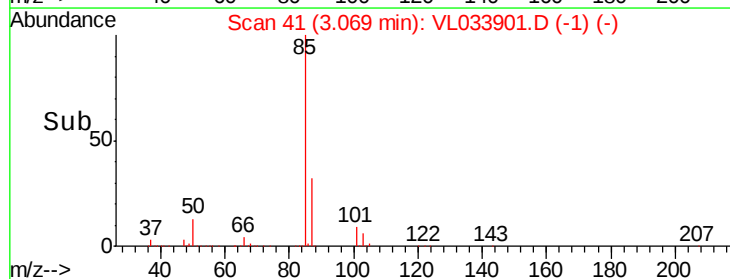
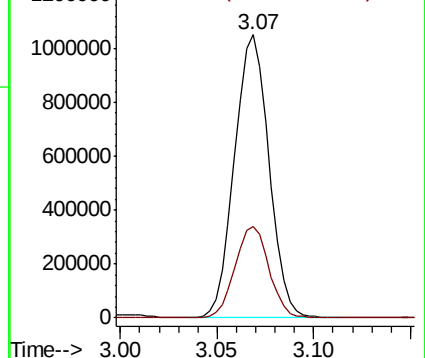
85 100

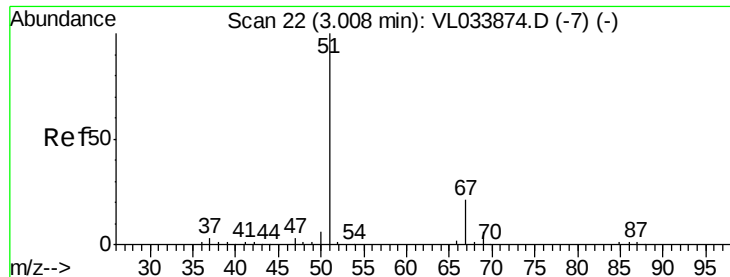
87 32.1 26.6 40.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 8.231 ppbv

RT: 3.00 min Scan# 21

Delta R.T. -0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

Tot Ion: 51 Resp: 1026647

Ion Ratio Lower Upper

51 100

67 21.1 16.4 24.6

Instrument :

MSVOA_L

ClientSampleId :

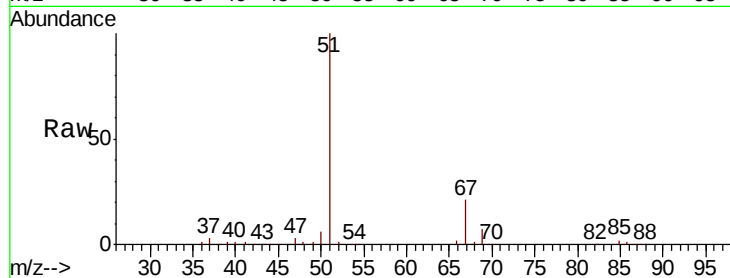
VL0613ABS01

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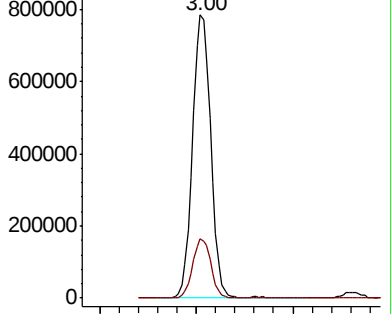
MMDadoda

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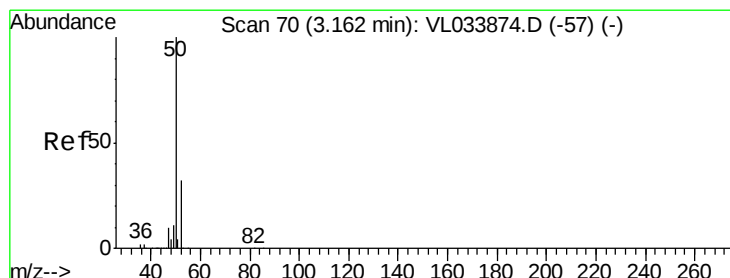
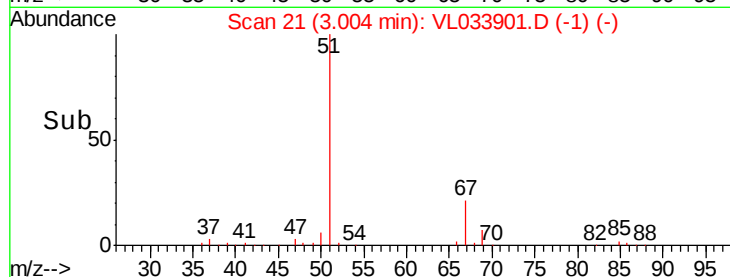


Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



Time-->



#4

Chloromethane

Concen: 8.265 ppbv

RT: 3.16 min Scan# 70

Delta R.T. -0.00 min

Lab File: VL033901.D

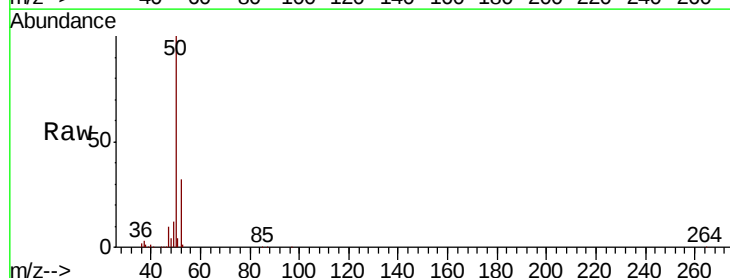
Acq: 13 Jun 2019 17:11

Tgt Ion: 50 Resp: 588004

Ion Ratio Lower Upper

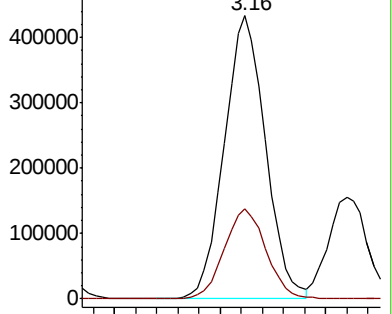
50 100

52 32.1 25.4 38.0

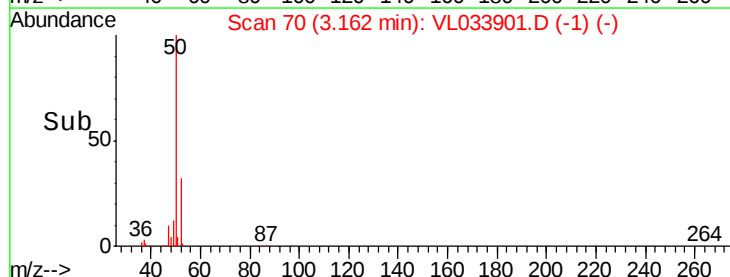


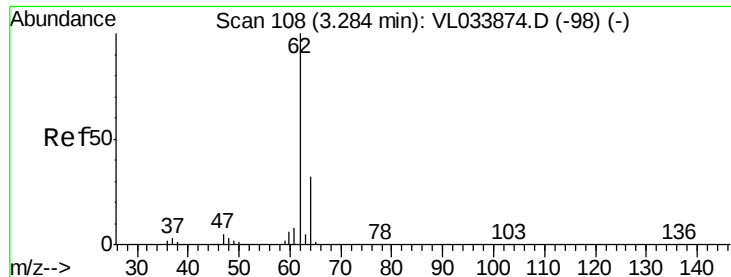
Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



Time-->





#5

Vinyl Chloride

Concen: 9.010 ppbv

RT: 3.28 min Scan# 107

Delta R.T. -0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

Instrument :

MSVOA_L

ClientSampleID :

VL0613ABS01

Tot Ion: 62 Resp: 594781

Ion Ratio Lower Upper

62 100

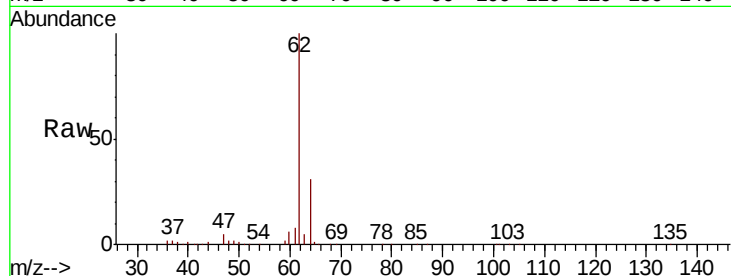
64 30.9 25.2 37.8

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.28

400000

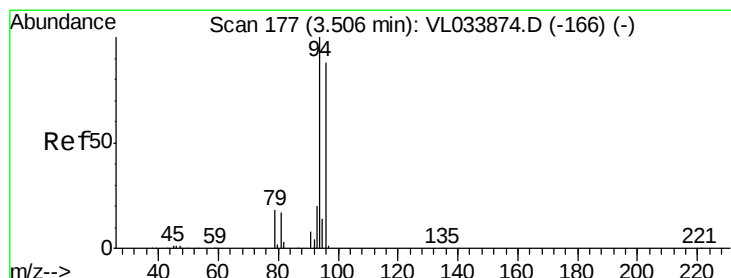
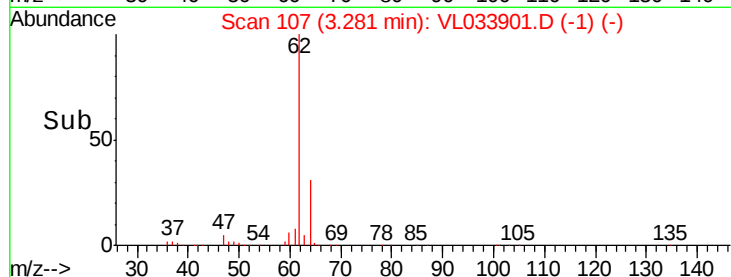
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 8.687 ppbv

RT: 3.50 min Scan# 176

Delta R.T. -0.00 min

Lab File: VL033901.D

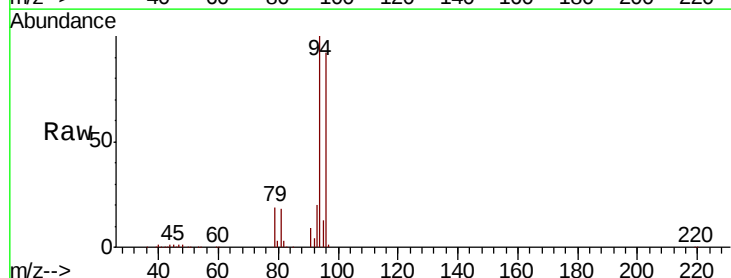
Acq: 13 Jun 2019 17:11

Tgt Ion: 94 Resp: 380978

Ion Ratio Lower Upper

94 100

96 92.2 70.2 105.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.50

300000

250000

200000

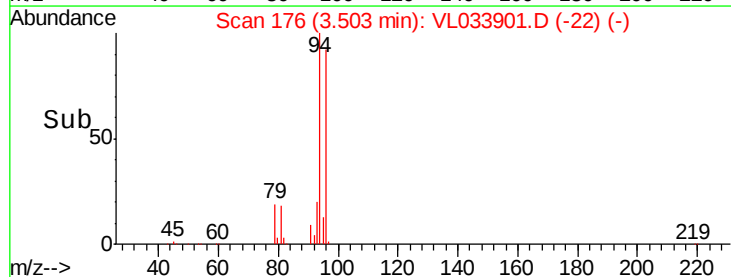
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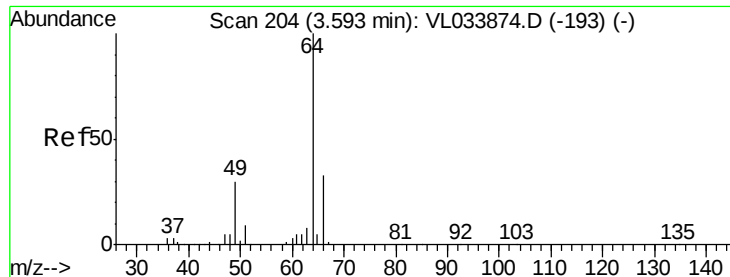
100000

50000

0

Time-->





#7

Chloroethane

Concen: 8.669 ppbv

RT: 3.59 min Scan# 204

Delta R.T. -0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

Instrument :

MSVOA_L

ClientSampleId :

VL0613ABS01

Tot Ion: 64 Resp: 226338

Ion Ratio Lower Upper

64 100

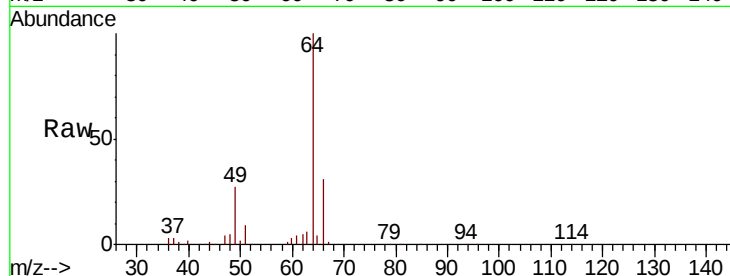
66 31.4 26.7 40.1

Manual Integrations

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.59

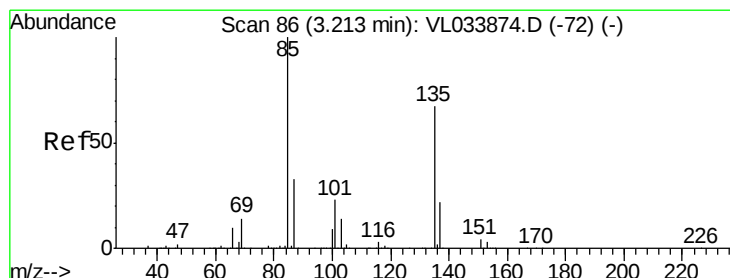
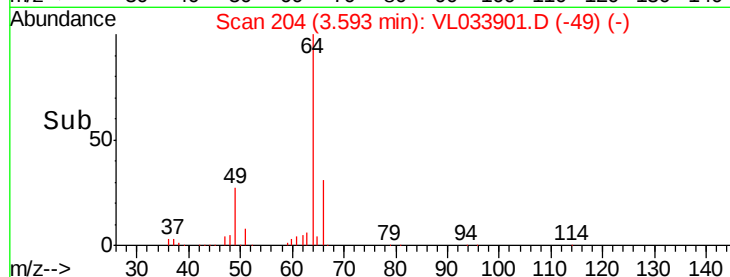
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 8.609 ppbv

RT: 3.21 min Scan# 85

Delta R.T. -0.00 min

Lab File: VL033901.D

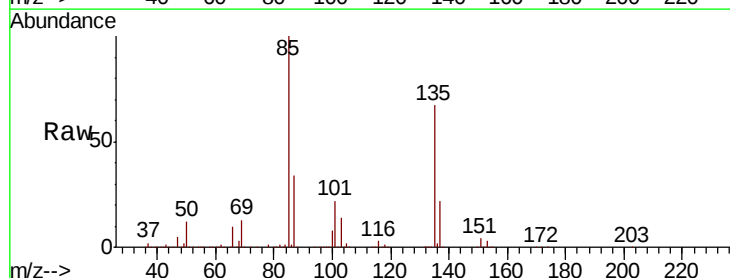
Acq: 13 Jun 2019 17:11

Tgt Ion: 85 Resp: 1581865

Ion Ratio Lower Upper

85 100

135 67.0 53.7 80.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

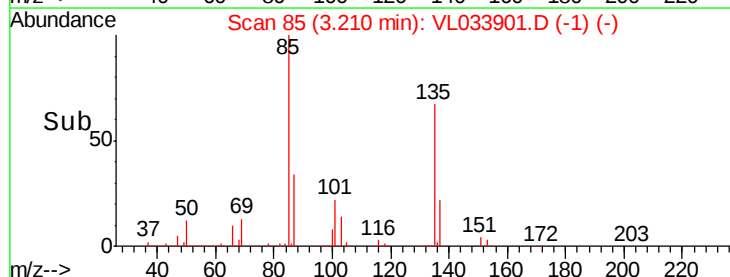
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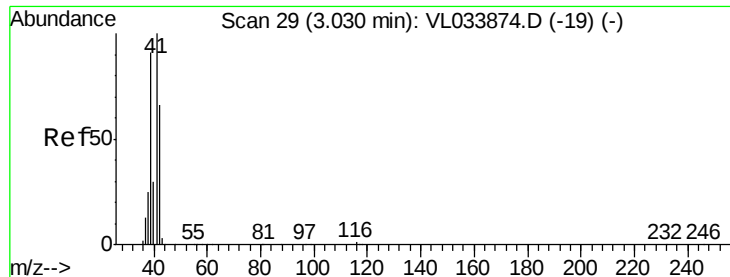
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500000

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Time-->





#9

Propene

Concen: 8.776 ppbv

RT: 3.03 min Scan# 28

Delta R.T. -0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

Instrument :

MSVOA_L

ClientSampleId :

VL0613ABS01

Tot Ion: 41 Resp: 409579

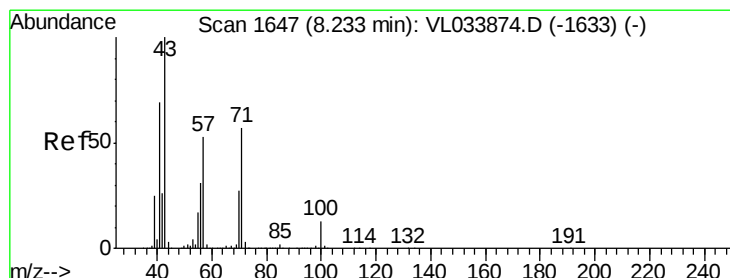
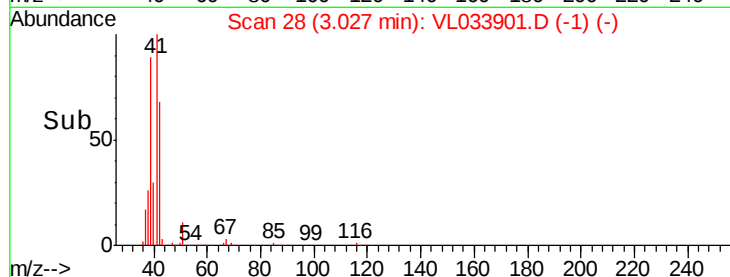
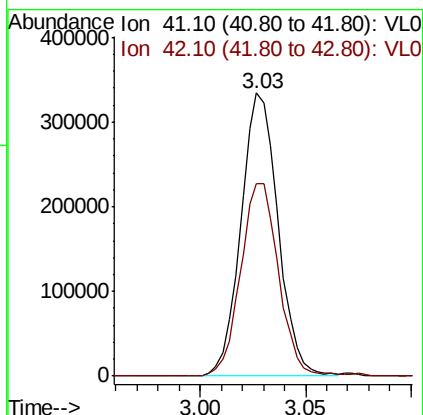
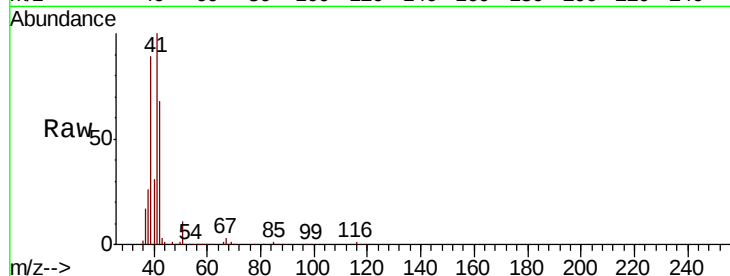
Ion Ratio Lower Upper

41 100

42 70.1 56.3 84.5

Manual Integrations
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#10

Heptane

Concen: 10.501 ppbv

RT: 8.24 min Scan# 1648

Delta R.T. 0.00 min

Lab File: VL033901.D

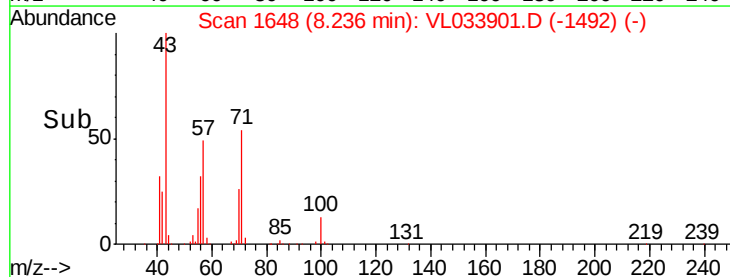
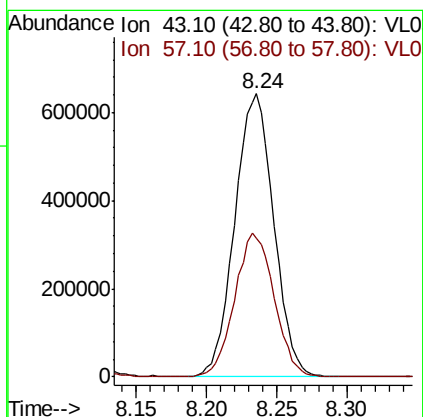
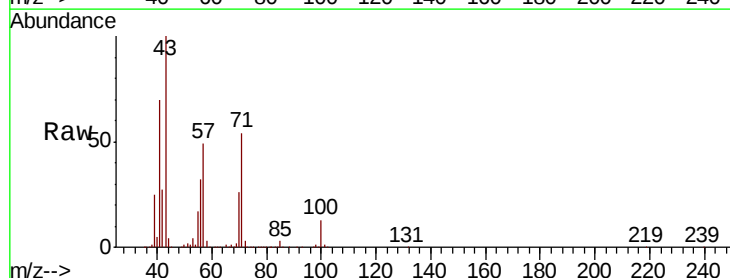
Acq: 13 Jun 2019 17:11

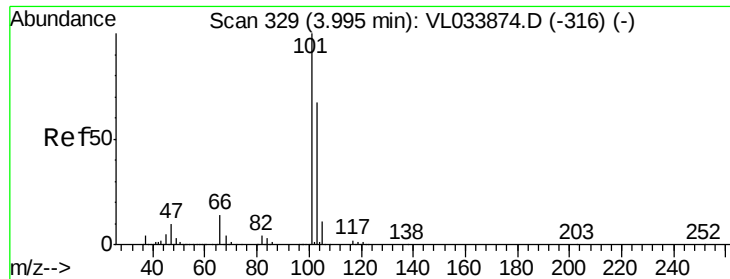
Tgt Ion: 43 Resp: 1238774

Ion Ratio Lower Upper

43 100

57 51.6 41.7 62.5





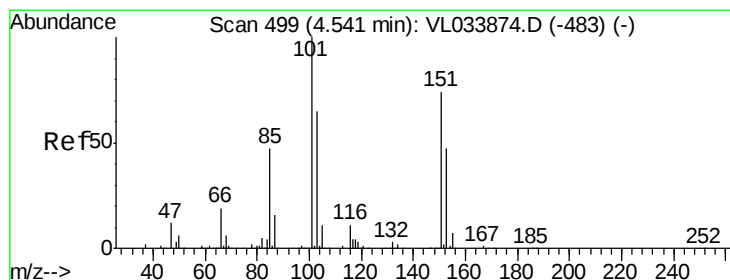
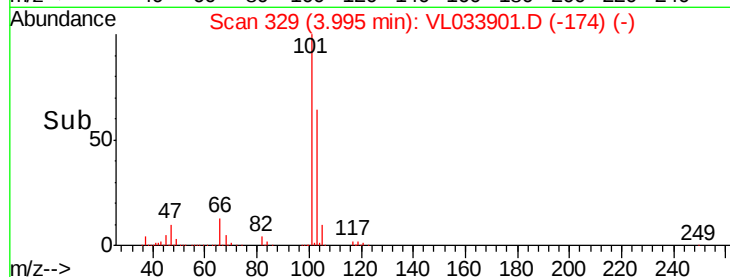
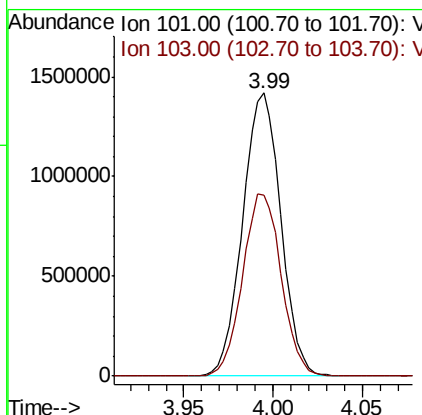
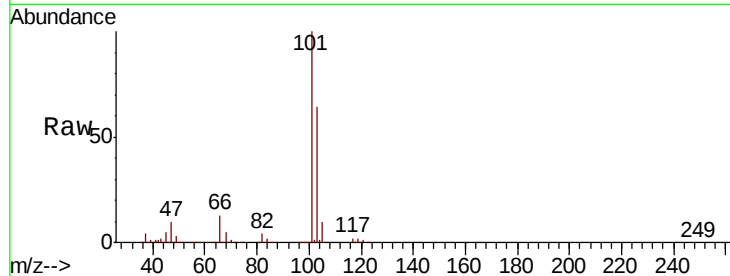
#11
 Trichlorofluoromethane
 Concen: 9.567 ppbv
 RT: 3.99 min Scan# 329
 Delta R.T. -0.00 min
 Lab File: VL033901.D
 Acq: 13 Jun 2019 17:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0613ABS01

Tot Ion:101 Resp: 2122343
 Ion Ratio Lower Upper
 101 100
 103 64.1 53.6 80.4

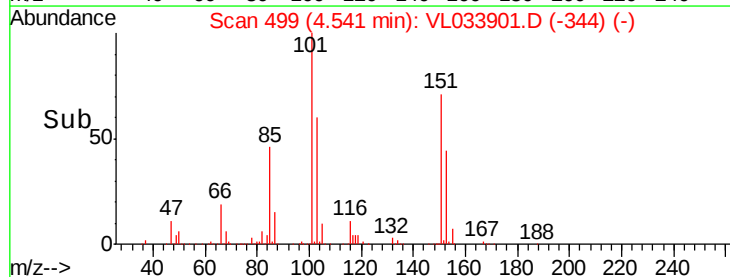
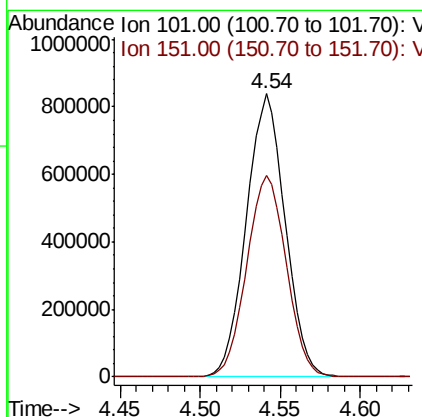
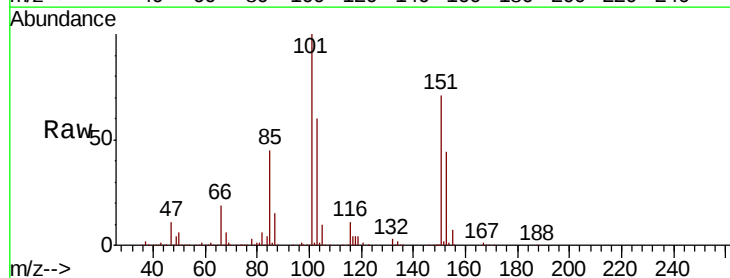
Manual Integrations
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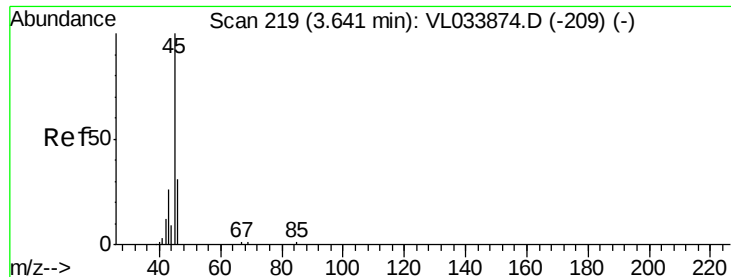
MMDadoda
 6/17/2019 12:37:04 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.276 ppbv
 RT: 4.54 min Scan# 499
 Delta R.T. -0.00 min
 Lab File: VL033901.D
 Acq: 13 Jun 2019 17:11

Tgt Ion:101 Resp: 1390786
 Ion Ratio Lower Upper
 101 100
 151 72.6 58.6 87.8





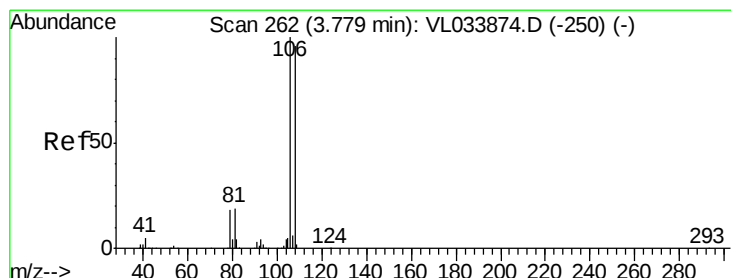
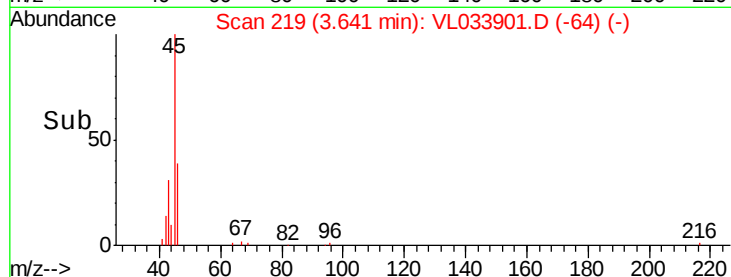
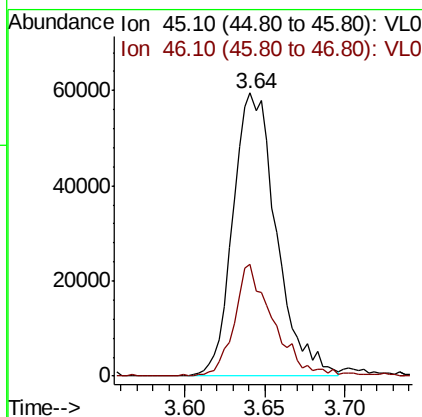
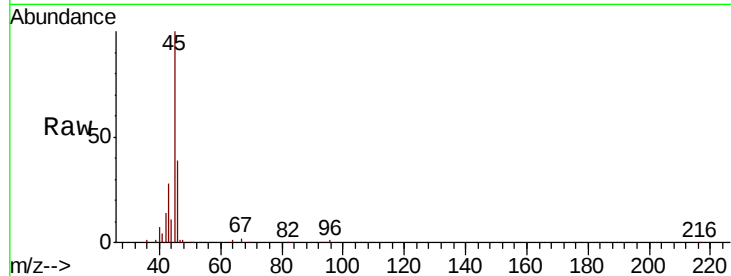
#13
Ethanol
Concen: 7.268 ppbv
RT: 3.64 min Scan# 219
Delta R.T. -0.00 min
Lab File: VL033901.D
Acq: 13 Jun 2019 17:11

Instrument :
MSVOA_L
ClientSampleId :
VL0613ABS01

Tot Ion	45	Resp	110362
Ion Ratio	100	Lower	Upper
46	36.1	15.3	61.1

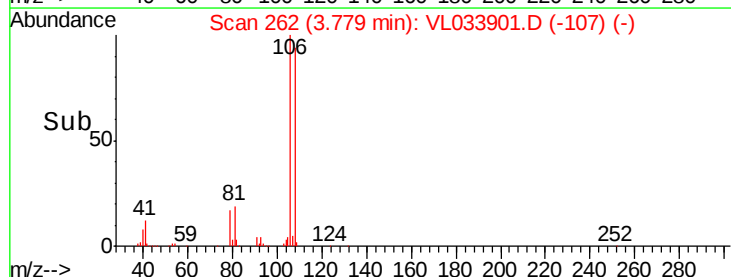
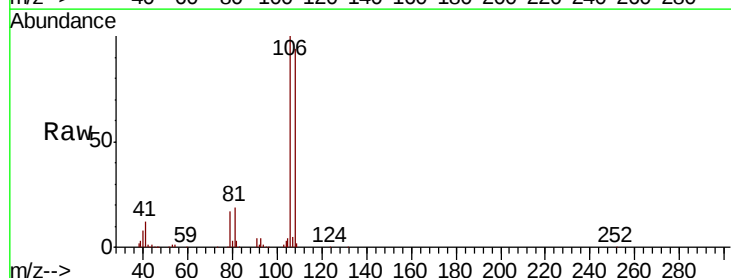
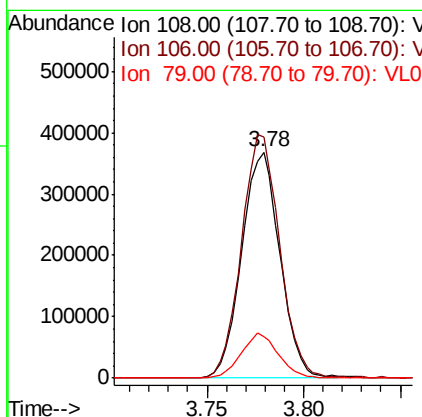
Manual Integrations
APPROVED

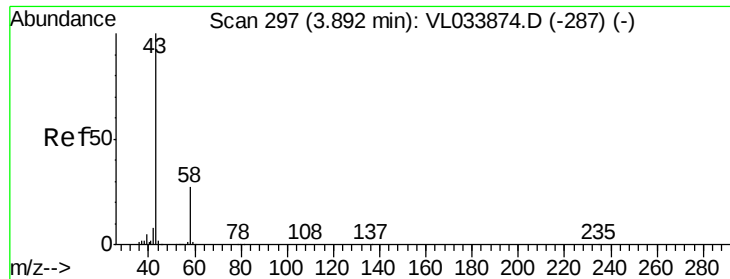
MMDadoda
6/17/2019 12:37:04 AM



#14
Bromoethene
Concen: 9.094 ppbv
RT: 3.78 min Scan# 262
Delta R.T. -0.00 min
Lab File: VL033901.D
Acq: 13 Jun 2019 17:11

Tgt Ion	108	Resp	508064
Ion Ratio	100	Lower	Upper
106	108.3	84.9	127.3
79	19.4	15.4	23.0





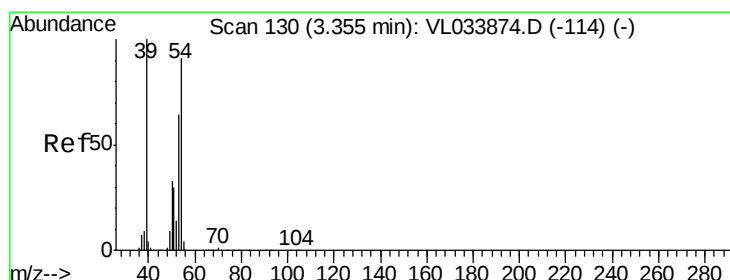
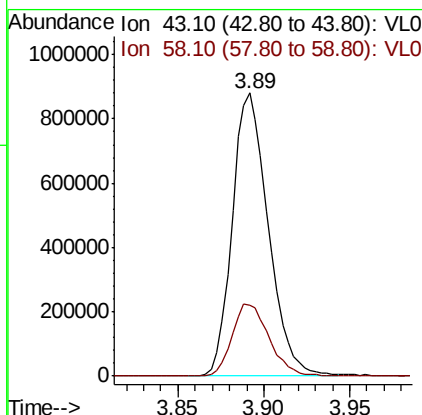
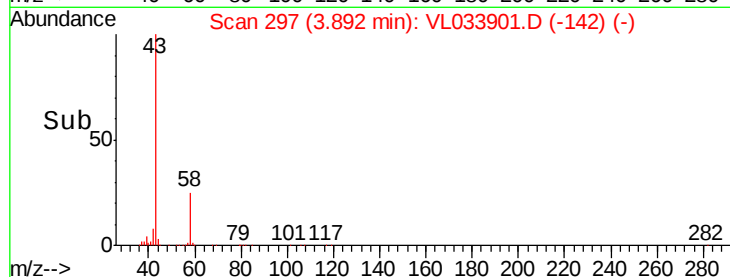
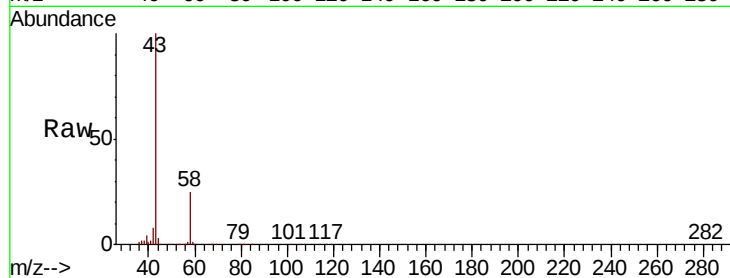
#15
Acetone
Concen: 8.327 ppbv
RT: 3.89 min Scan# 297
Delta R.T. -0.00 min
Lab File: VL033901.D
Acq: 13 Jun 2019 17:11

Instrument :
MSVOA_L
ClientSampleId :
VL0613ABS01

Tot Ion: 43 Resp: 1286682
Ion Ratio Lower Upper
43 100
58 26.4 21.3 31.9

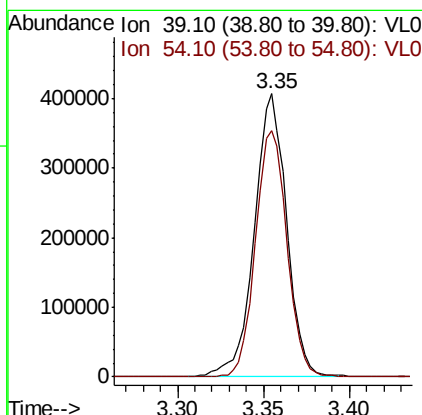
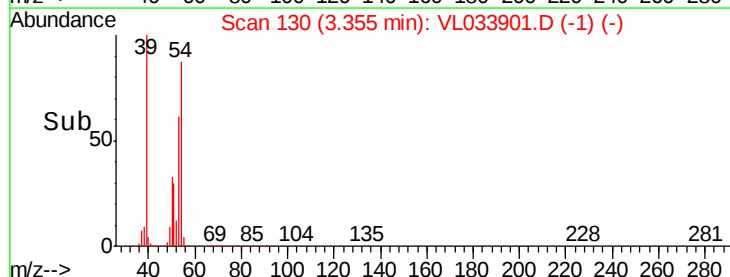
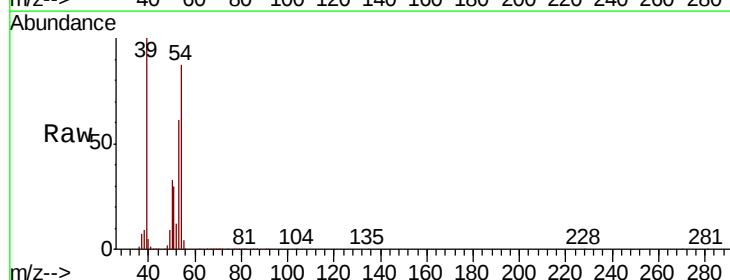
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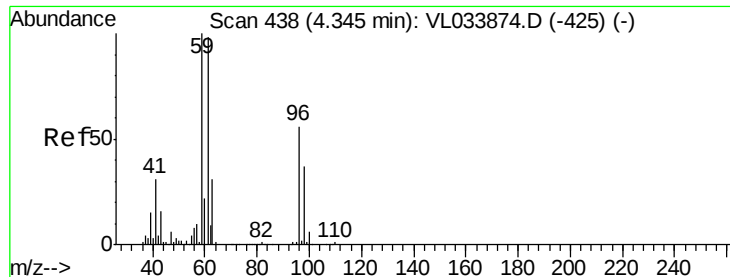
MMDadoda
6/17/2019 12:37:04 AM



#16
1,3-Butadiene
Concen: 9.002 ppbv
RT: 3.35 min Scan# 130
Delta R.T. -0.00 min
Lab File: VL033901.D
Acq: 13 Jun 2019 17:11

Tgt Ion: 39 Resp: 529457
Ion Ratio Lower Upper
39 100
54 85.0 68.6 103.0





#17

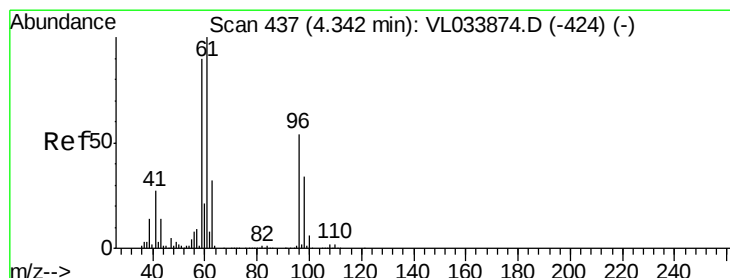
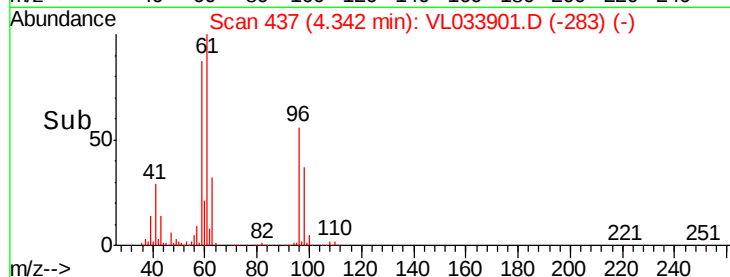
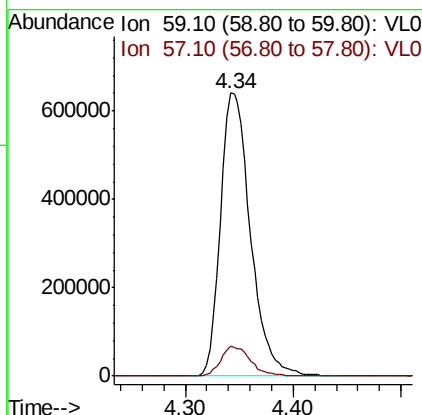
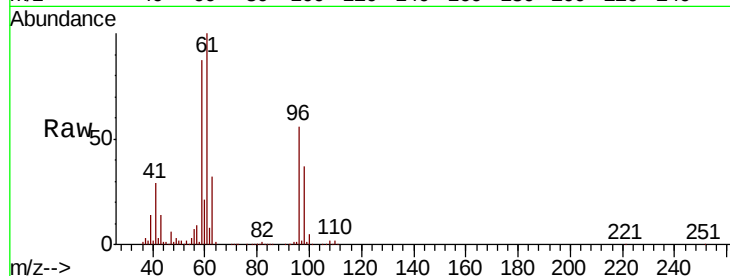
tert-Butyl alcohol
Concen: 10.264 ppbv
RT: 4.34 min Scan# 437
Delta R.T. -0.00 min
Lab File: VL033901.D
Acq: 13 Jun 2019 17:11

Instrument :
MSVOA_L
ClientSampleId :
VL0613ABS01

Tot Ion: 59 Resp: 1239808
Ion Ratio Lower Upper
59 100
57 10.5 8.4 12.6

Manual Integrations
APPROVED

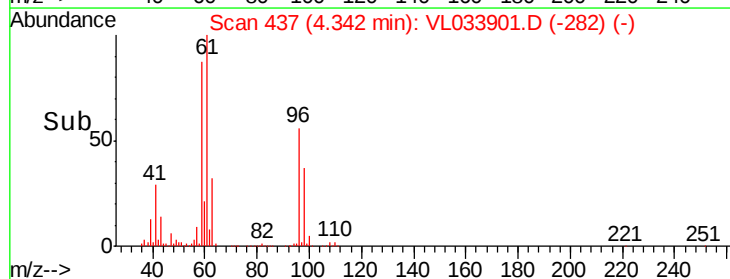
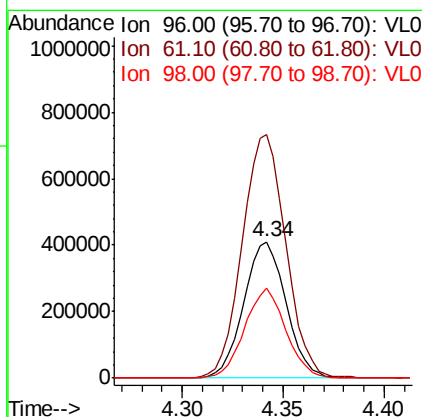
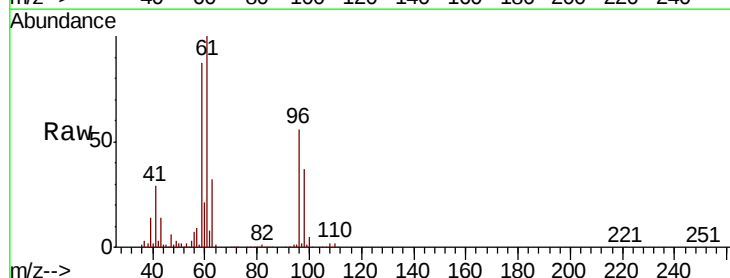
MMDadoda
6/17/2019 12:37:04 AM

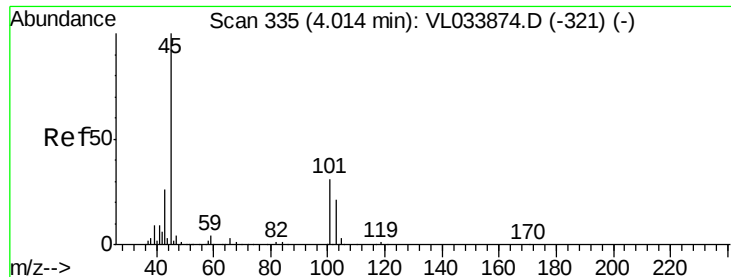


#18

1,1-Dichloroethene
Concen: 9.537 ppbv
RT: 4.34 min Scan# 437
Delta R.T. -0.00 min
Lab File: VL033901.D
Acq: 13 Jun 2019 17:11

Tgt Ion: 96 Resp: 603948
Ion Ratio Lower Upper
96 100
61 178.3 147.0 220.6
98 65.9 49.4 74.0





#19

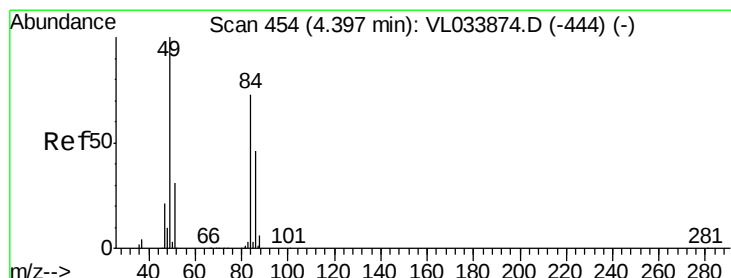
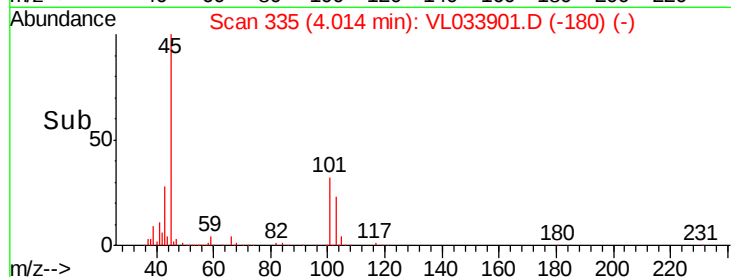
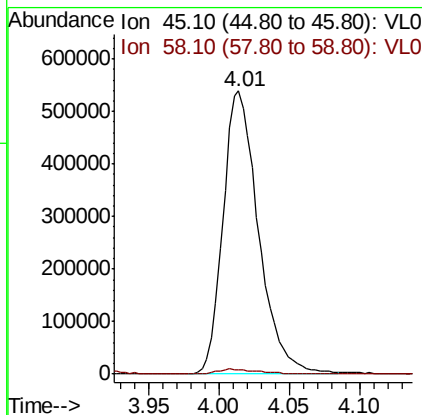
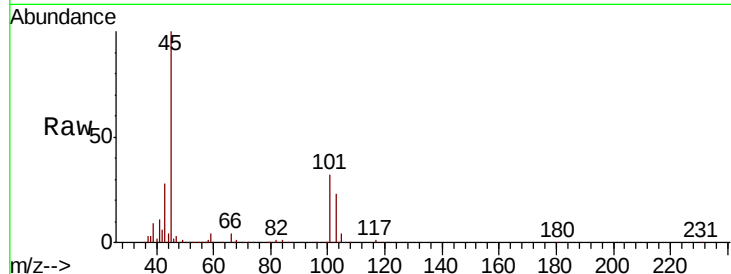
Isopropyl Alcohol
 Concen: 10.702 ppbv
 RT: 4.01 min Scan# 335
 Delta R.T. -0.00 min
 Lab File: VL033901.D
 Acq: 13 Jun 2019 17:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0613ABS01

Tot Ion	Ratio	Lower	Upper
45	100		
58	2.4	1.8	2.6

Manual Integrations
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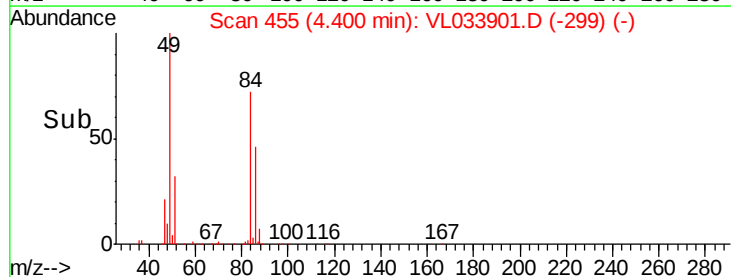
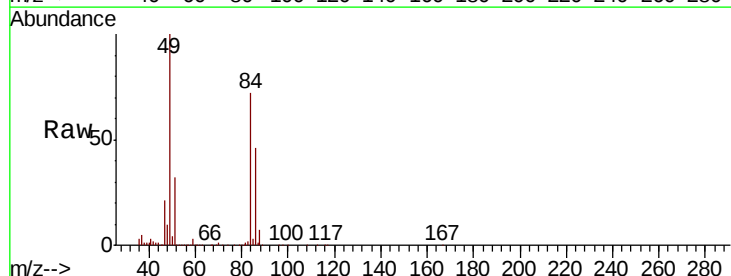
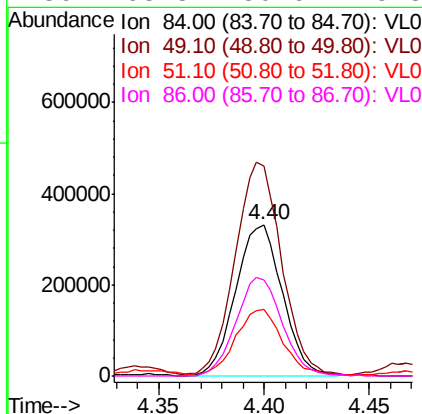
MMDadoda
 6/17/2019 12:37:04 AM

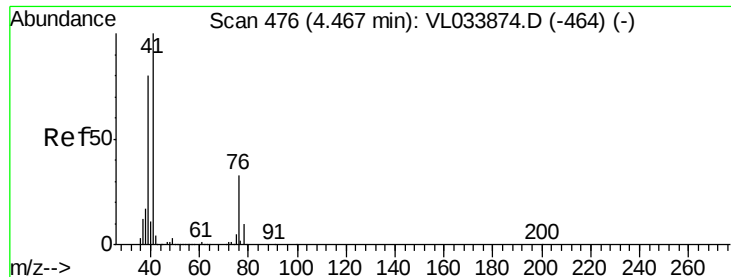


#20

Methylene Chloride
 Concen: 8.439 ppbv
 RT: 4.40 min Scan# 455
 Delta R.T. 0.00 min
 Lab File: VL033901.D
 Acq: 13 Jun 2019 17:11

Tgt Ion	Ratio	Lower	Upper
84	100		
49	137.3	110.0	165.0
51	43.7	34.6	51.8
86	63.8	50.6	75.8





#21

Allvl Chloride

Concen: 9.751 ppbv

RT: 4.47 min Scan# 476

Delta R.T. -0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

Instrument :

MSVOA_L

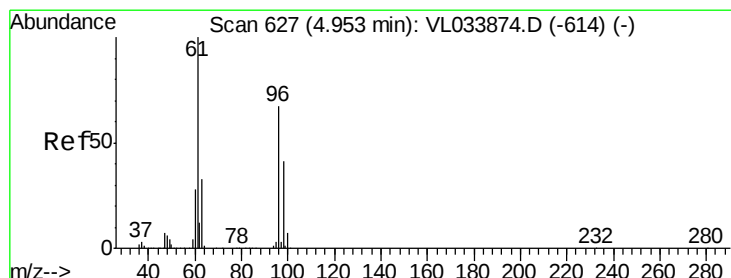
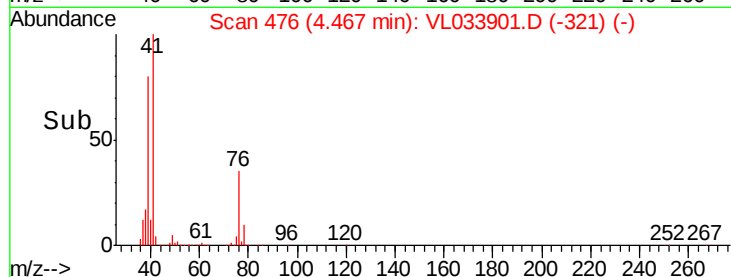
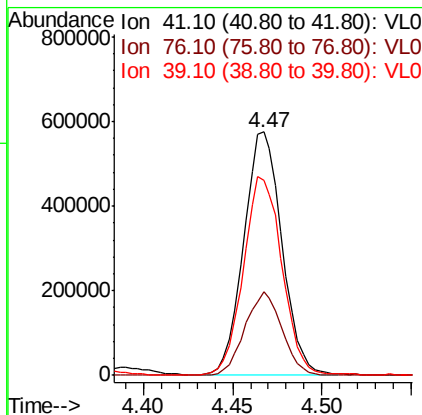
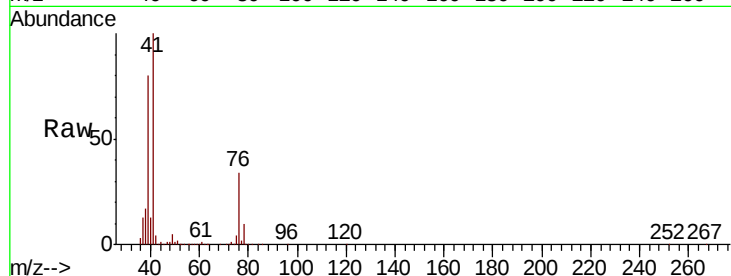
ClientSampleId :

VL0613ABS01

Tot Ion:	41	Resp:	855962
Ion Ratio	Lower	Upper	
41	100		
76	33.5	26.6	39.8
39	82.5	65.2	97.8

Manual Integrations
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#22

trans-1,2-Dichloroethene

Concen: 9.415 ppbv

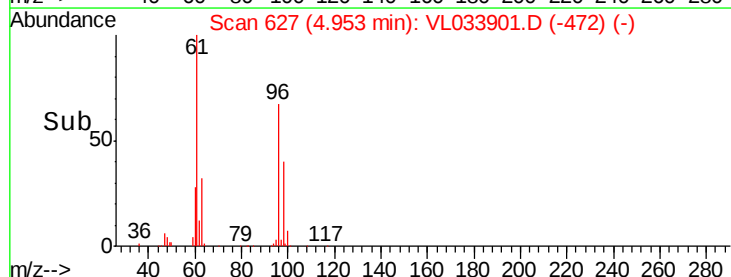
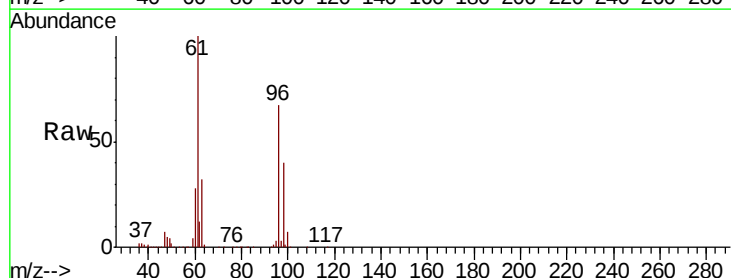
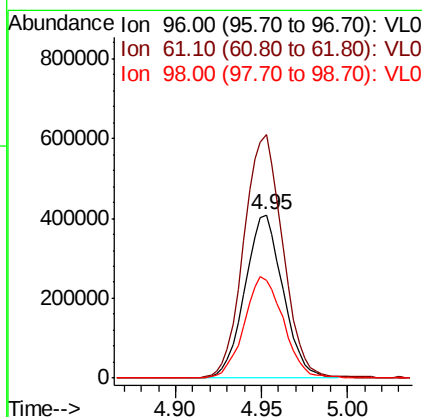
RT: 4.95 min Scan# 627

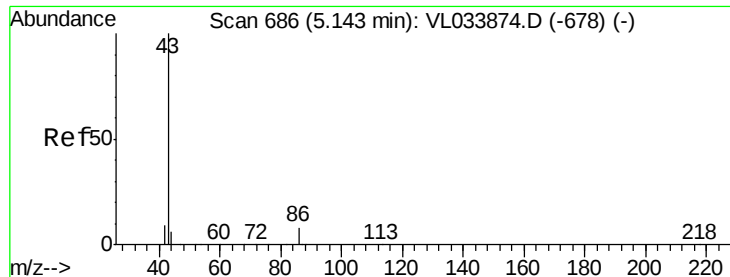
Delta R.T. -0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

Tgt Ion:	96	Resp:	628470
Ion Ratio	Lower	Upper	
96	100		
61	149.3	119.0	178.6
98	59.6	48.3	72.5





#23

Vinyl Acetate

Concen: 9.740 ppbv

RT: 5.15 min Scan# 687

Delta R.T. 0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

Instrument :

MSVOA_L

ClientSampleId :

VL0613ABS01

Tot Ion: 43 Resp: 1749357

Ion Ratio Lower Upper

43 100

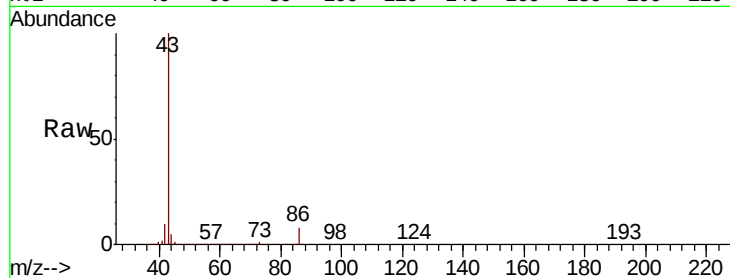
86 7.9 5.8 8.8

42 9.9 7.8 11.8

44 5.0 4.2 6.4

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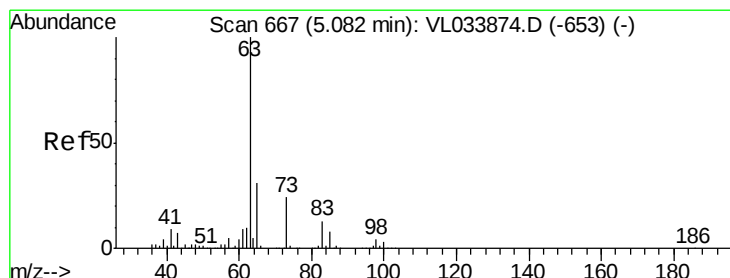
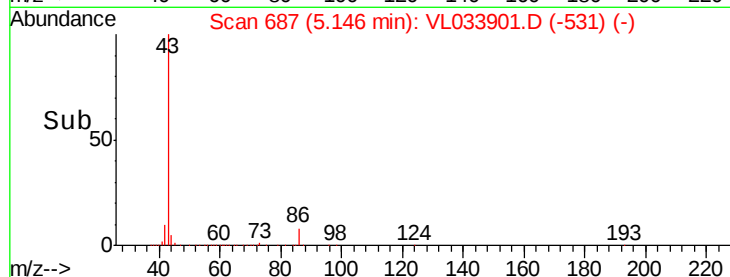
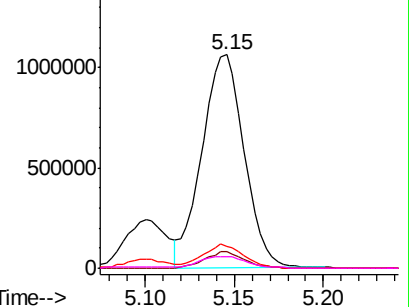


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.206 ppbv

RT: 5.08 min Scan# 667

Delta R.T. -0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

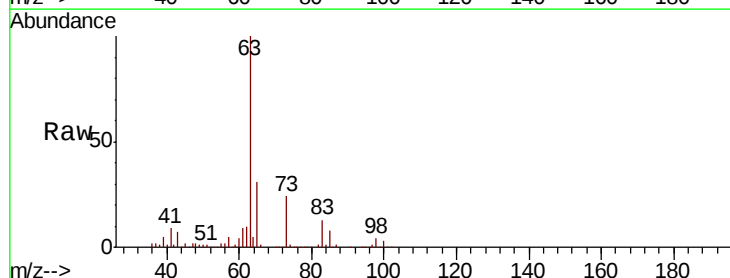
Tgt Ion: 63 Resp: 1286081

Ion Ratio Lower Upper

63 100

98 4.3 2.2 6.6

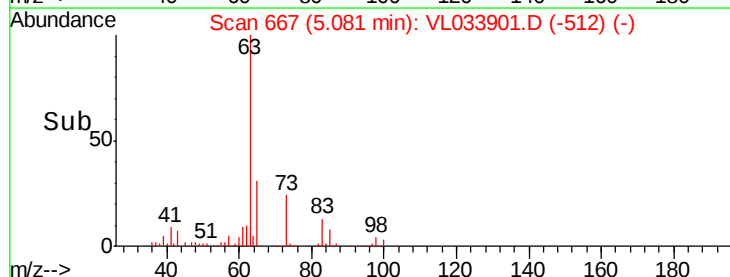
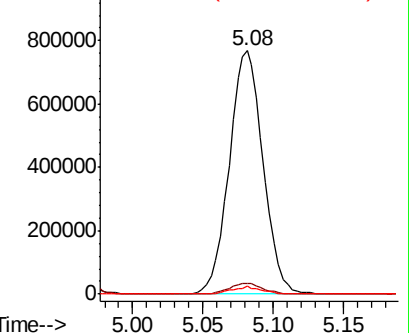
100 3.2 1.3 3.8

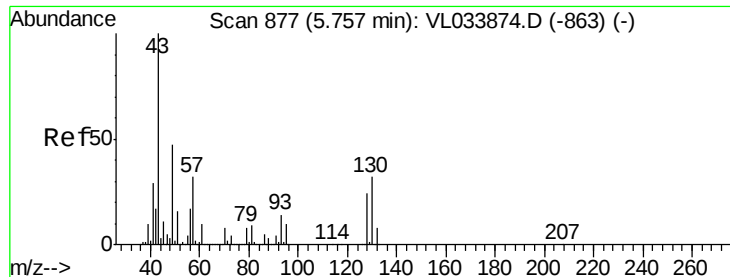


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





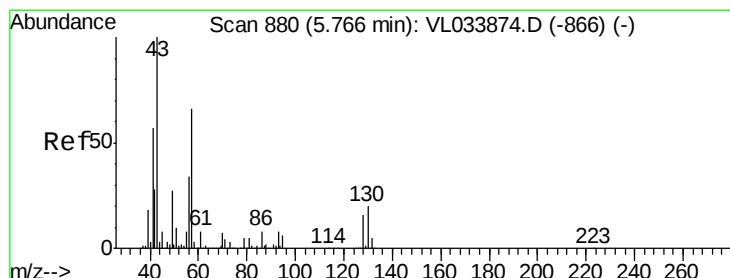
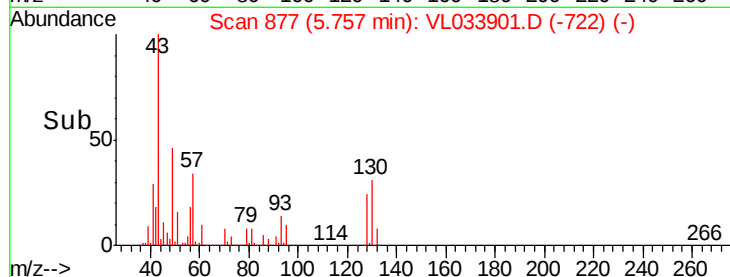
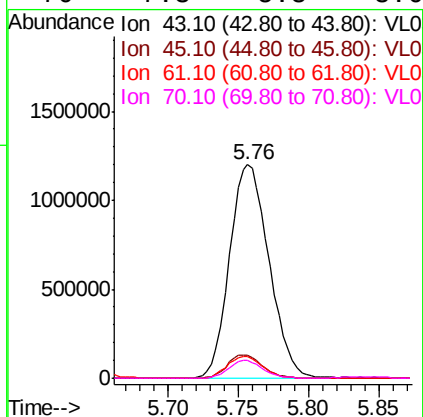
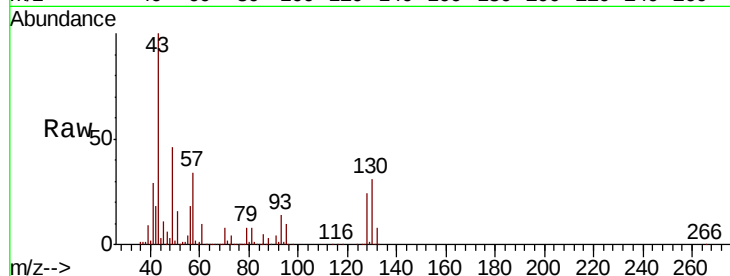
#25
Ethyl Acetate
Concen: 9.975 ppbv
RT: 5.76 min Scan# 877
Delta R.T. -0.00 min
Lab File: VL033901.D
Acq: 13 Jun 2019 17:11

Instrument :
MSVOA_L
ClientSampleId :
VL0613ABS01

Tot Ion	Ratio	Lower	Upper
43	100		
45	10.0	7.9	11.9
61	9.4	7.8	11.6
70	7.3	5.8	8.6

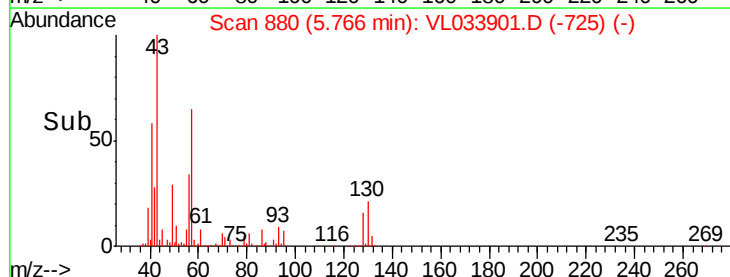
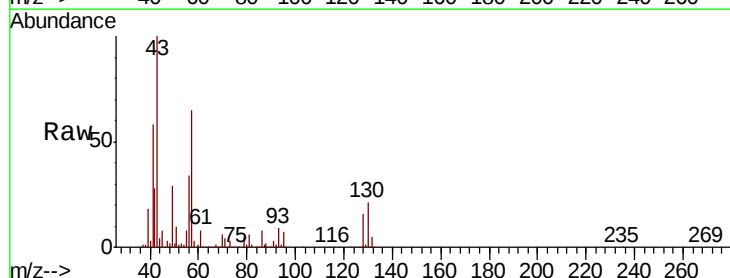
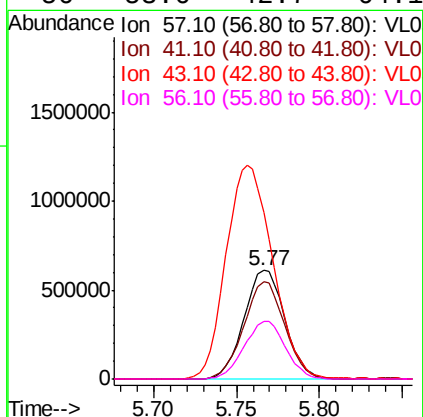
Manual Integrations
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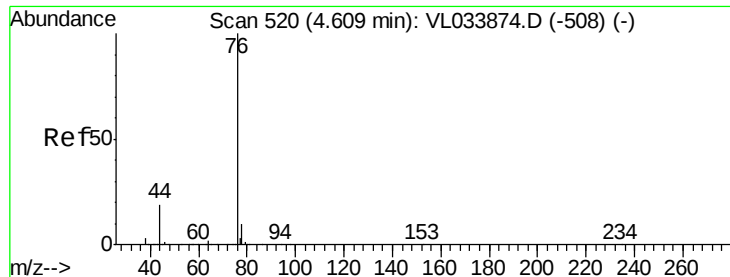
MMDadoda
6/17/2019 12:37:04 AM



#26
Hexane
Concen: 9.791 ppbv
RT: 5.77 min Scan# 880
Delta R.T. -0.00 min
Lab File: VL033901.D
Acq: 13 Jun 2019 17:11

Tgt Ion	Ratio	Lower	Upper
57	100		
41	89.9	71.4	107.2
43	225.2	183.7	275.5
56	53.6	42.7	64.1





#27

Carbon Disulfide

Concen: 10.341 ppbv

RT: 4.61 min Scan# 520

Delta R.T. -0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

Instrument :

MSVOA_L

ClientSampleId :

VL0613ABS01

Tot Ion: 76 Resp: 1539376

Ion Ratio Lower Upper

76 100

44 17.1 14.4 21.6

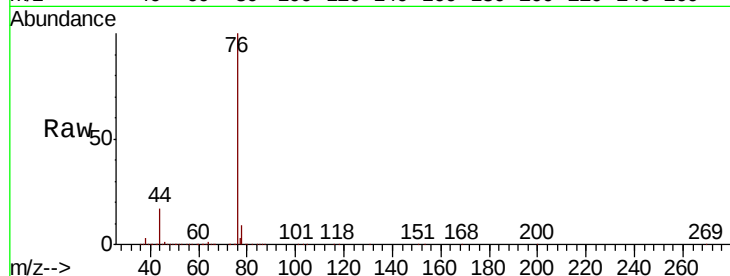
78 9.4 7.5 11.3

Manual Integrations

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MMDadoda

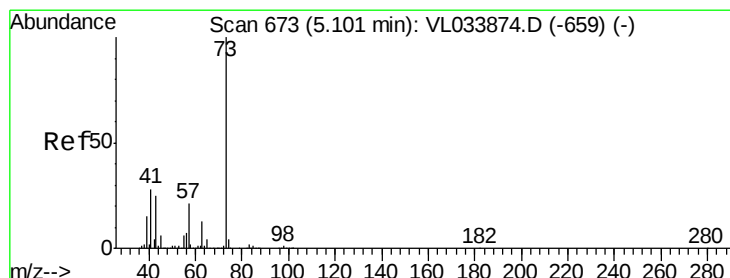
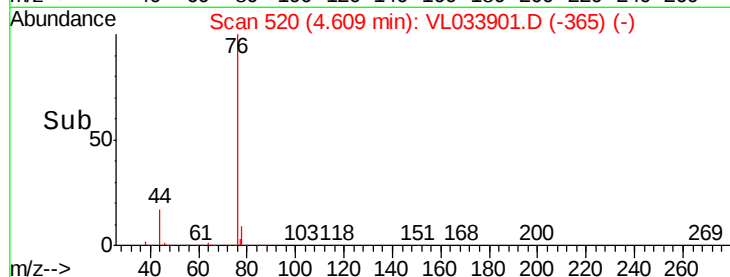
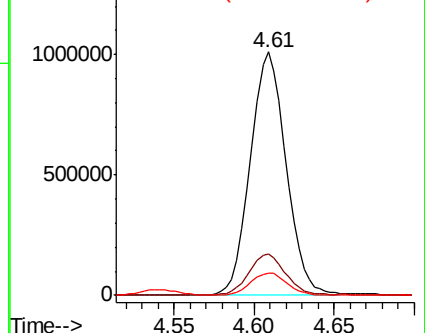
6/17/2019 12:37:04 AM



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 10.105 ppbv

RT: 5.10 min Scan# 673

Delta R.T. -0.00 min

Lab File: VL033901.D

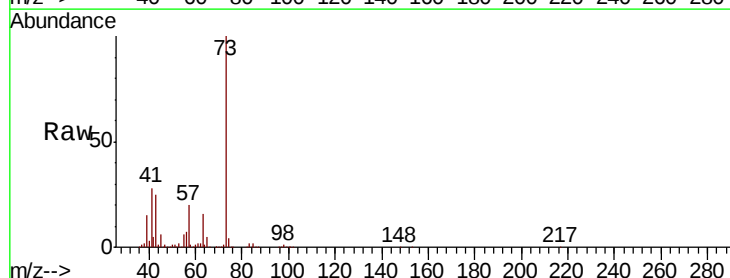
Acq: 13 Jun 2019 17:11

Tgt Ion: 73 Resp: 1637281

Ion Ratio Lower Upper

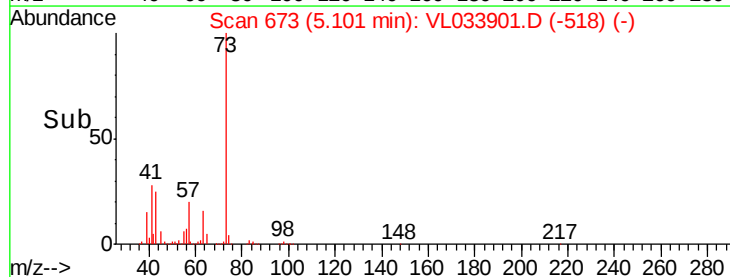
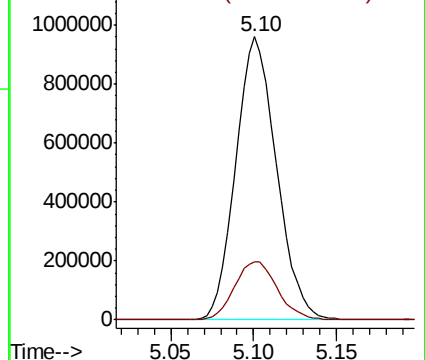
73 100

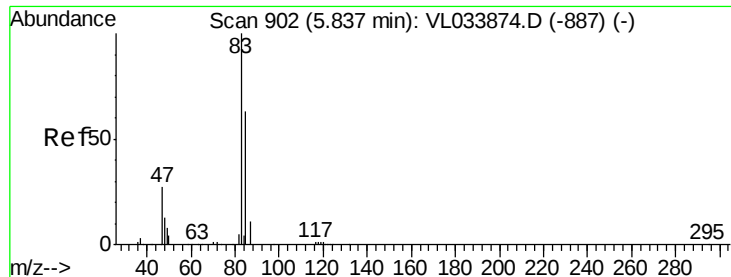
57 21.7 17.2 25.8



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





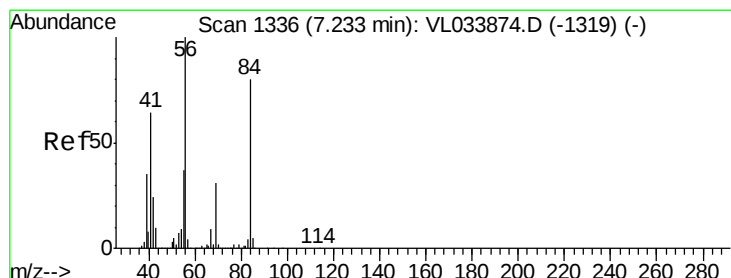
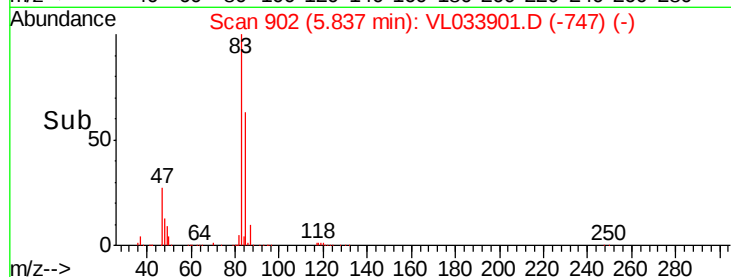
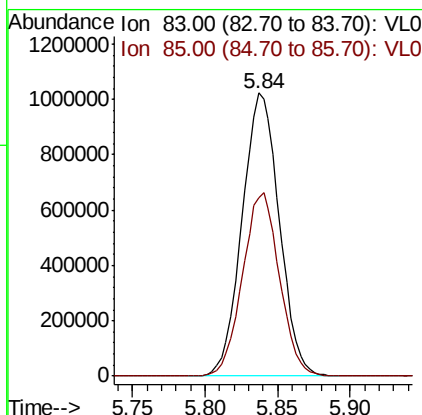
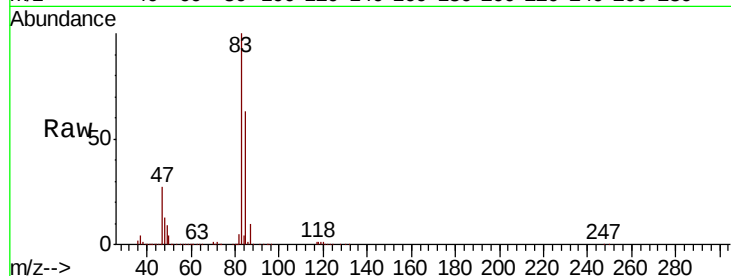
#29
Chloroform
Concen: 9.962 ppbv
RT: 5.84 min Scan# 902
Delta R.T. -0.00 min
Lab File: VL033901.D
Acq: 13 Jun 2019 17:11

Instrument :
MSVOA_L
ClientSampleId :
VL0613ABS01

Tot Ion: 83 Resp: 1828150
Ion Ratio Lower Upper
83 100
85 63.1 50.5 75.7

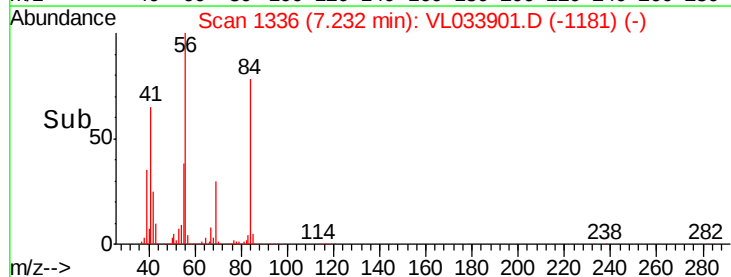
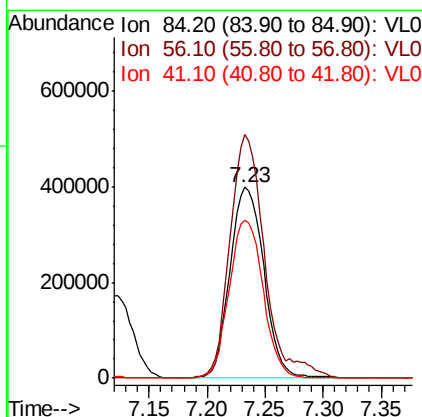
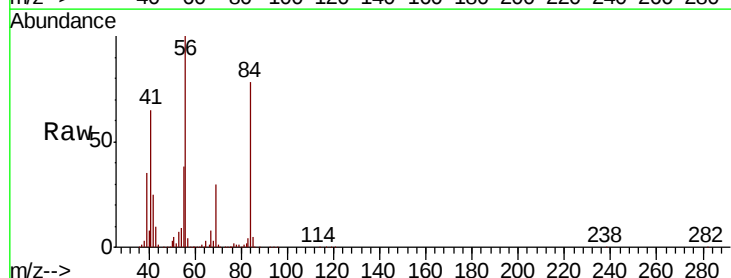
Manual Integrations
APPROVED

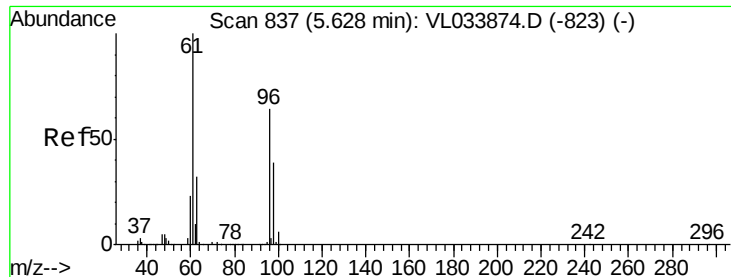
MMDadoda
6/17/2019 12:37:04 AM



#30
Cyclohexane
Concen: 10.700 ppbv
RT: 7.23 min Scan# 1336
Delta R.T. -0.00 min
Lab File: VL033901.D
Acq: 13 Jun 2019 17:11

Tgt Ion: 84 Resp: 810088
Ion Ratio Lower Upper
84 100
56 130.3 105.8 158.8
41 82.4 65.7 98.5





#31

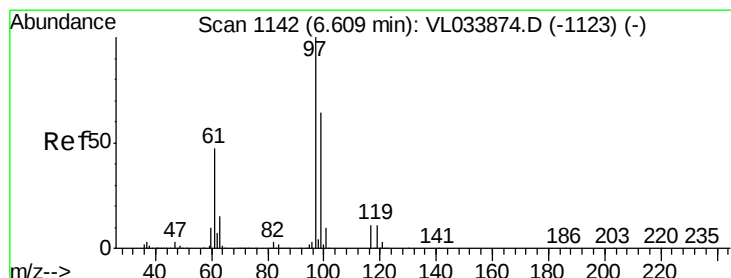
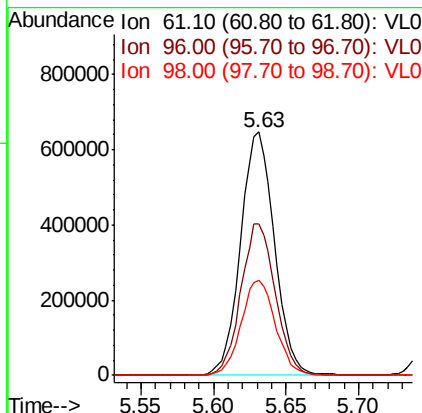
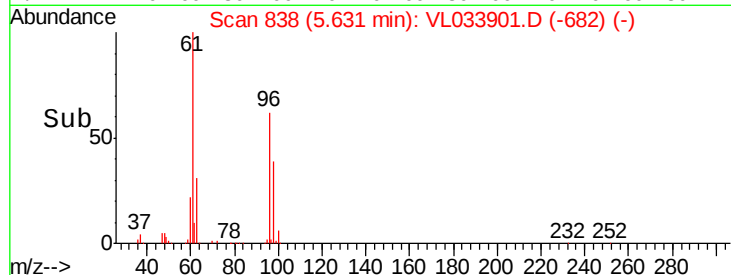
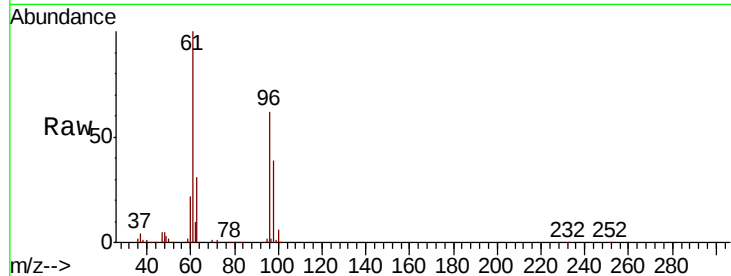
cis-1,2-Dichloroethene
Concen: 11.208 ppbv
RT: 5.63 min Scan# 838
Delta R.T. 0.00 min
Lab File: VL033901.D
Acq: 13 Jun 2019 17:11

Instrument :
MSVOA_L
ClientSampleId :
VL0613ABS01

Tot Ion	Ratio	Lower	Upper
61	100		
96	62.2	50.9	76.3
98	38.8	31.4	47.2

Manual Integrations
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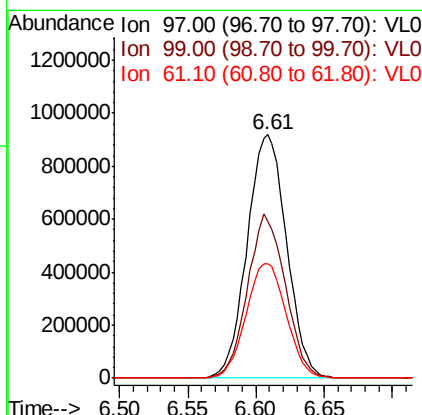
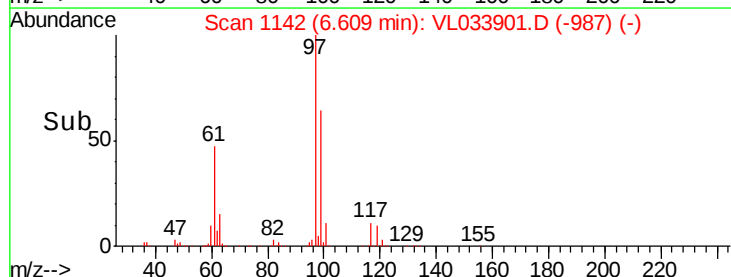
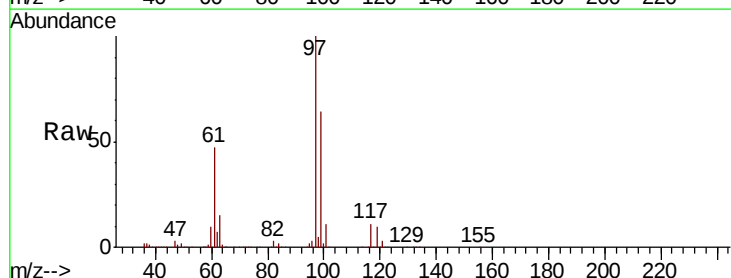
MMDadoda
6/17/2019 12:37:04 AM

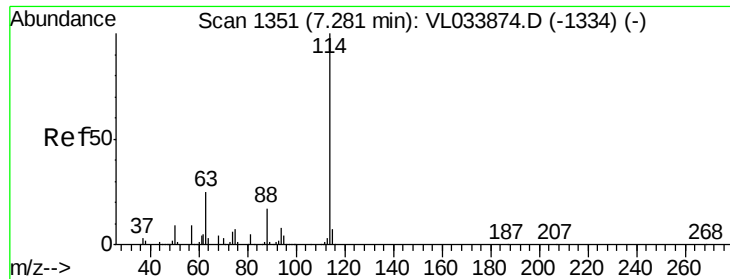


#32

1,1,1-Trichloroethane
Concen: 10.407 ppbv
RT: 6.61 min Scan# 1142
Delta R.T. -0.00 min
Lab File: VL033901.D
Acq: 13 Jun 2019 17:11

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.9	51.7	77.5
61	48.1	37.7	56.5





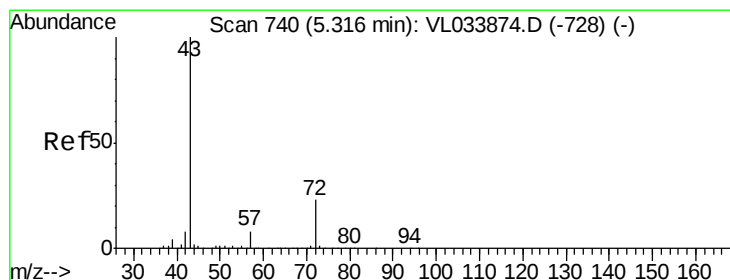
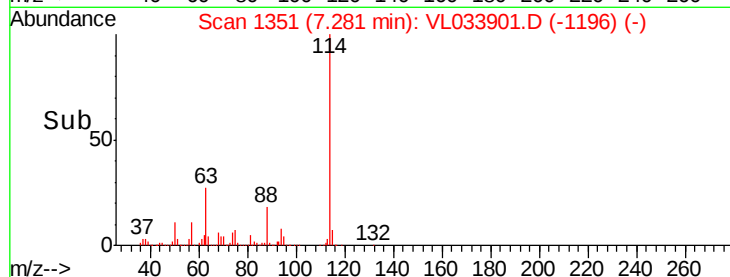
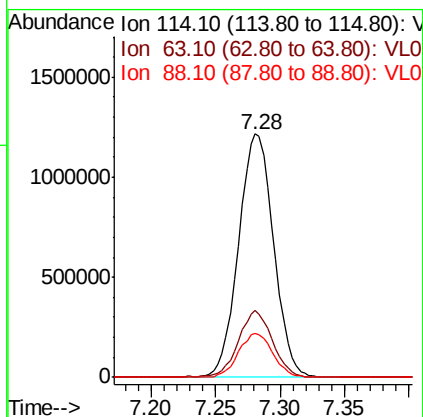
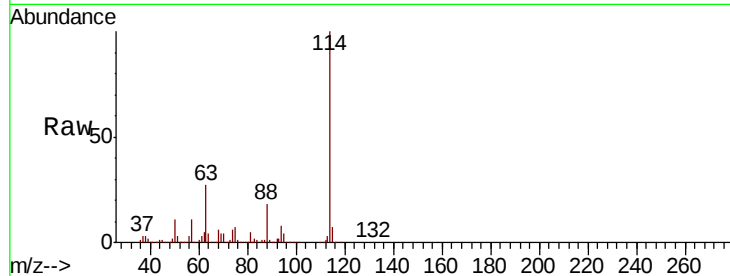
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.28 min Scan# 1351
 Delta R.T. -0.00 min
 Lab File: VL033901.D
 Acq: 13 Jun 2019 17:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0613ABS01

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.1	21.1	31.7
88	17.8	14.2	21.4

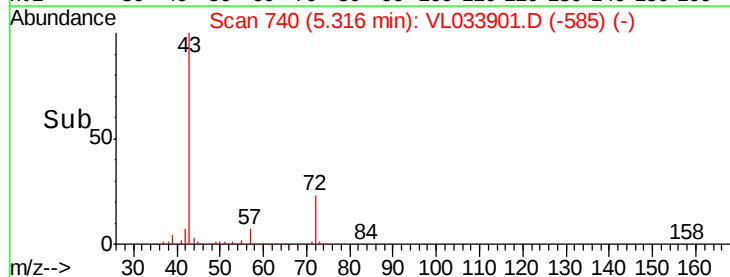
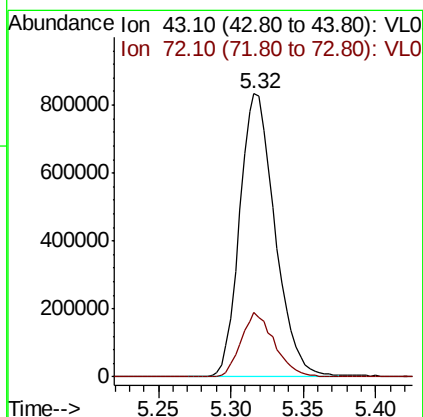
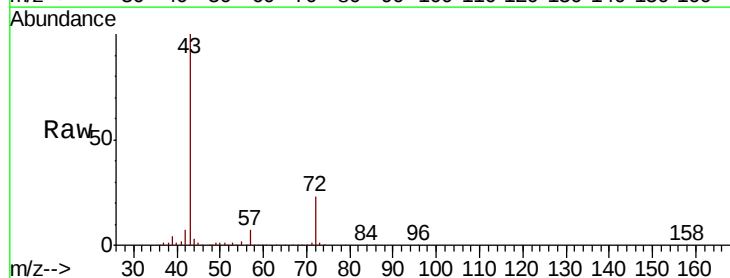
Manual Integrations
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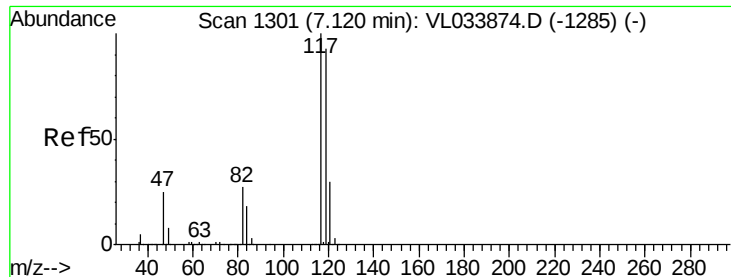
MMDadoda
 6/17/2019 12:37:04 AM



#34
 2-Butanone
 Concen: 10.869 ppbv
 RT: 5.32 min Scan# 740
 Delta R.T. -0.00 min
 Lab File: VL033901.D
 Acq: 13 Jun 2019 17:11

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.7	17.9	26.9





#35

Carbon Tetrachloride

Concen: 11.098 ppbv

RT: 7.12 min Scan# 1301

Delta R.T. -0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

Instrument :

MSVOA_L

ClientSampleId :

VL0613ABS01

Tot Ion:117 Resp: 1967631

Ion Ratio Lower Upper

117 100

119 92.5 74.6 111.8

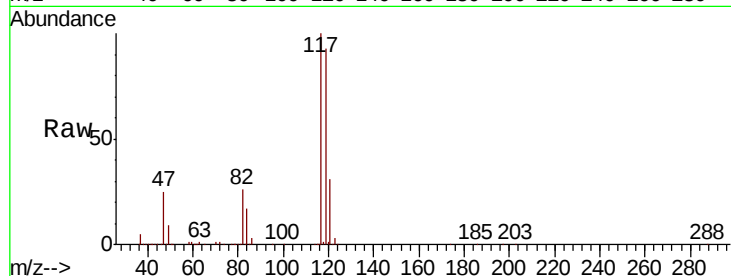
121 30.9 24.0 36.0

Manual Integrations

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MMDadoda

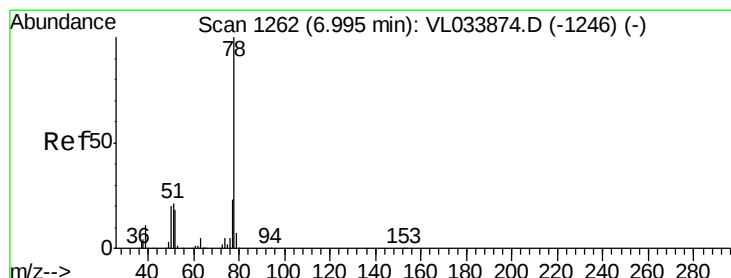
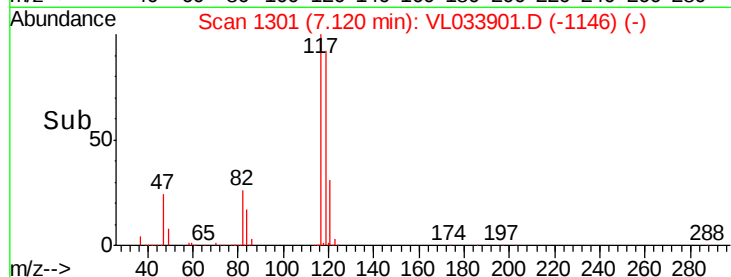
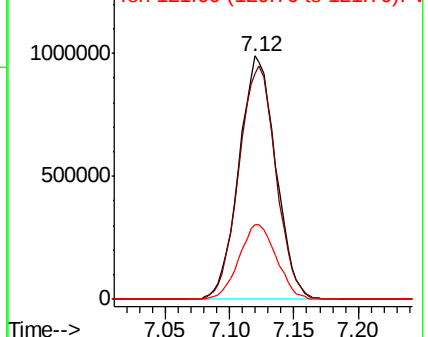
6/17/2019 12:37:04 AM



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 11.283 ppbv

RT: 6.99 min Scan# 1262

Delta R.T. -0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

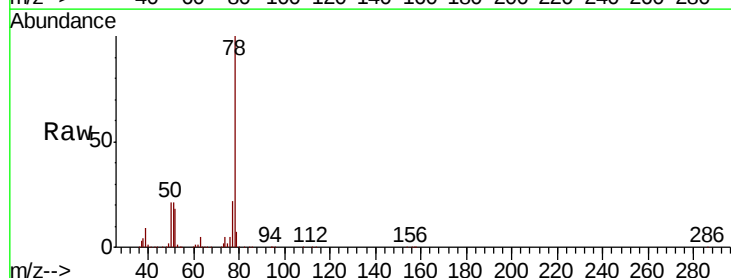
Tgt Ion: 78 Resp: 1977814

Ion Ratio Lower Upper

78 100

77 21.8 18.2 27.2

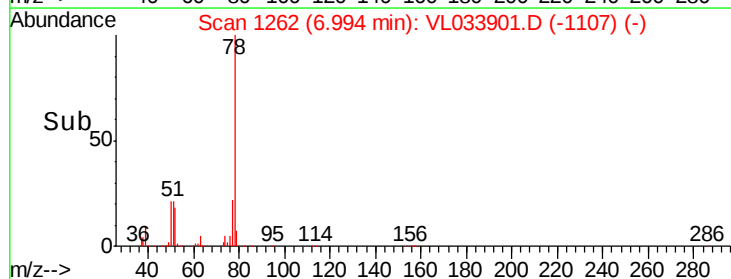
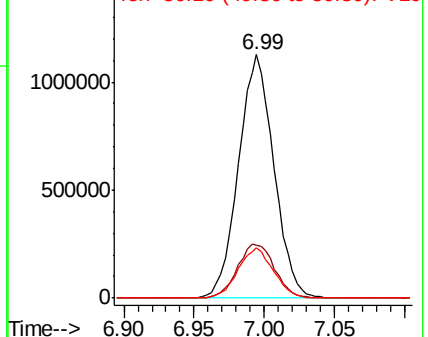
50 20.5 15.9 23.9

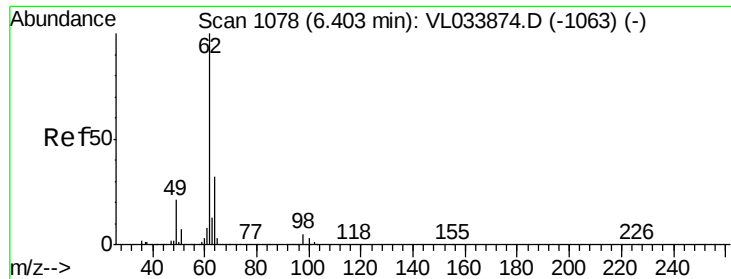


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





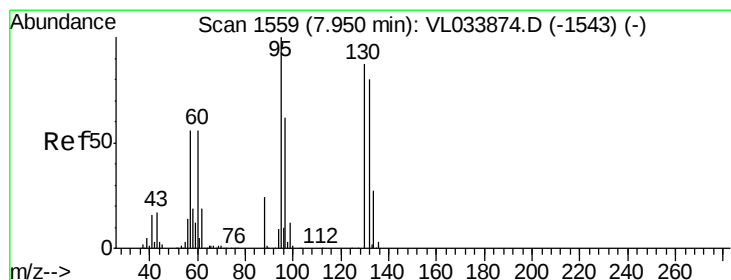
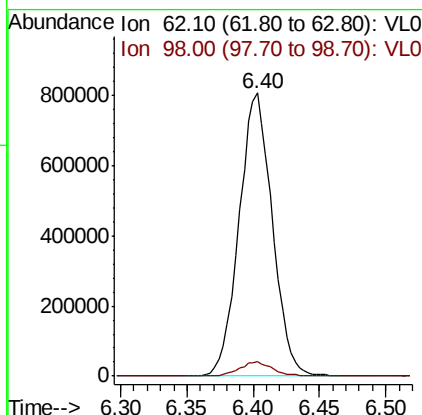
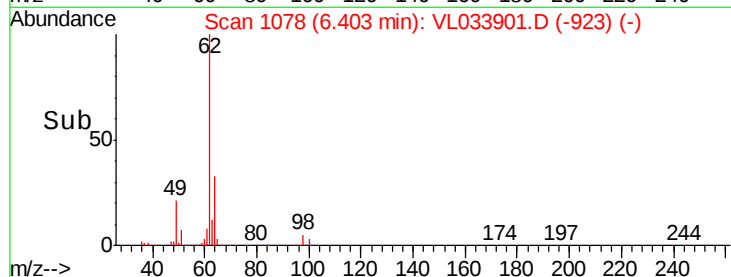
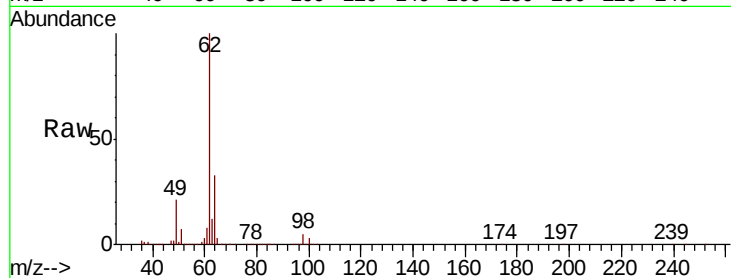
#37
1,2-Dichloroethane
Concen: 10.837 ppbv
RT: 6.40 min Scan# 1078
Delta R.T. -0.00 min
Lab File: VL033901.D
Acq: 13 Jun 2019 17:11

Instrument :
MSVOA_L
ClientSampleId :
VL0613ABS01

Tot Ion: 62 Resp: 1404935
Ion Ratio Lower Upper
62 100
98 5.0 4.0 6.0

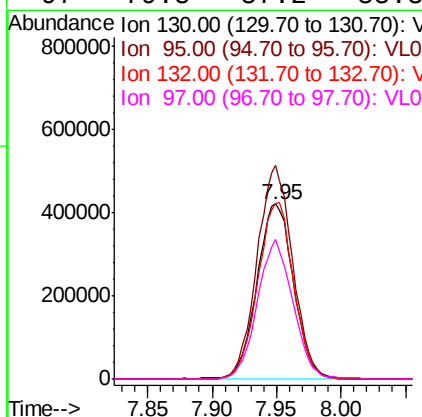
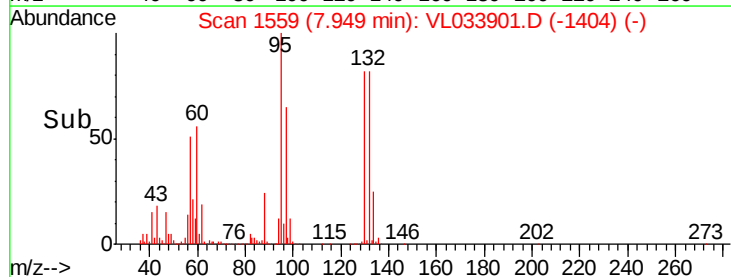
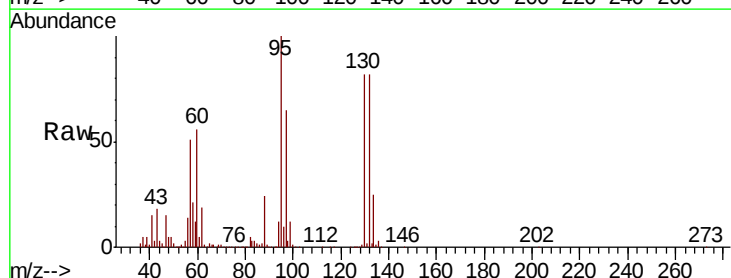
Manual Integrations
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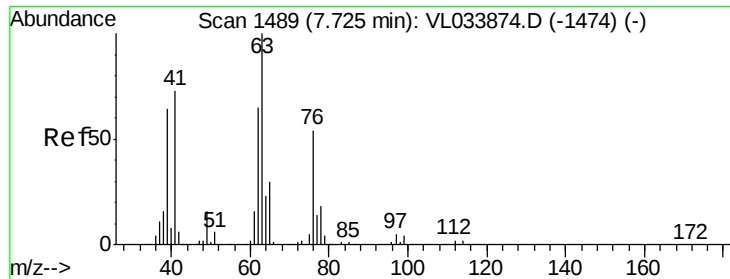
MMDadoda
6/17/2019 12:37:04 AM



#38
Trichloroethene
Concen: 12.130 ppbv
RT: 7.95 min Scan# 1559
Delta R.T. -0.00 min
Lab File: VL033901.D
Acq: 13 Jun 2019 17:11

Tgt Ion:130 Resp: 827866
Ion Ratio Lower Upper
130 100
95 122.2 92.0 138.0
132 100.4 73.8 110.8
97 79.5 57.2 85.8





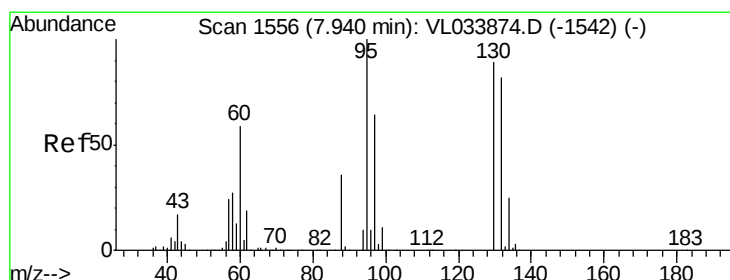
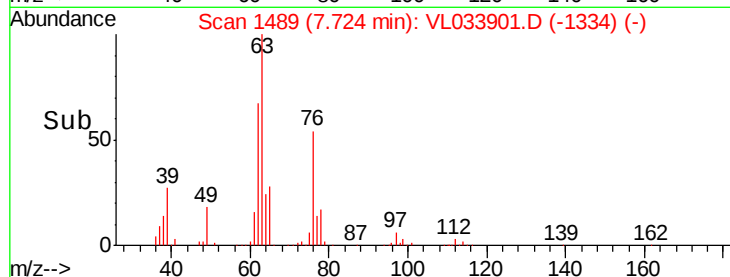
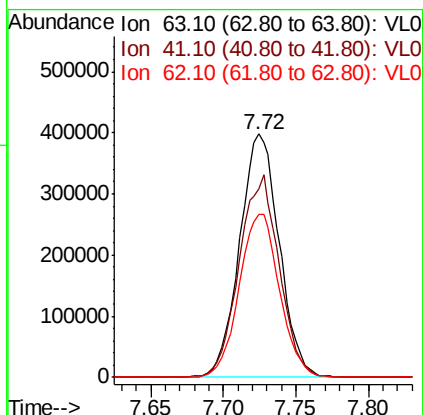
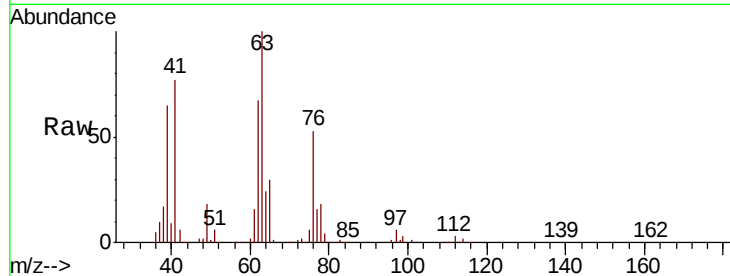
#39
 1,2-Dichloropropane
 Concen: 11.173 ppbv
 RT: 7.72 min Scan# 1489
 Delta R.T. -0.00 min
 Lab File: VL033901.D
 Acq: 13 Jun 2019 17:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0613ABS01

Tot Ion	Ratio	Lower	Upper
63	100		
41	77.2	58.7	88.1
62	66.9	51.9	77.9

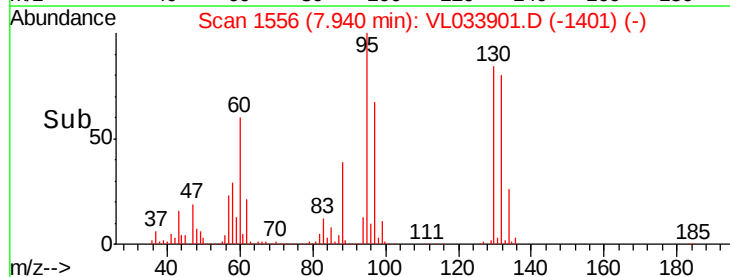
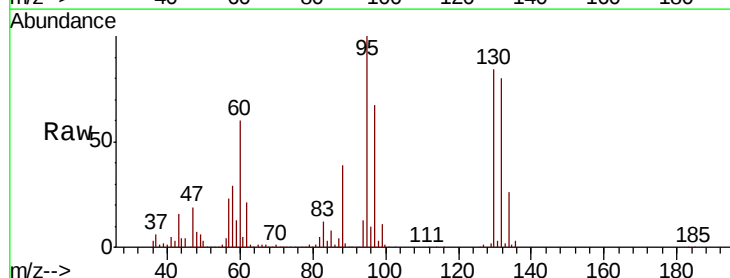
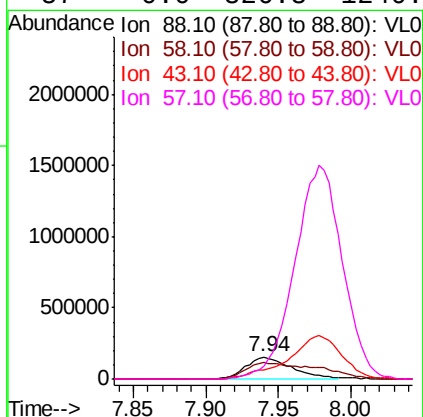
Manual Integrations
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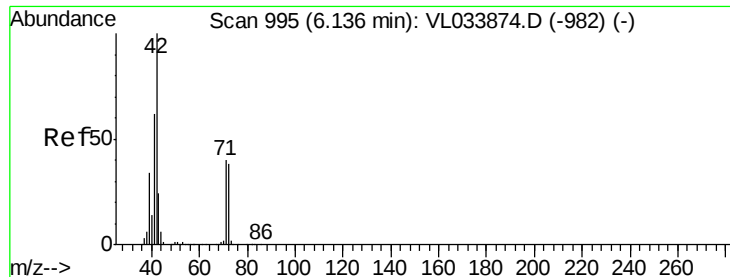
MMDadoda
 6/17/2019 12:37:04 AM



#40
 1,4-Dioxane
 Concen: 12.152 ppbv
 RT: 7.94 min Scan# 1556
 Delta R.T. -0.00 min
 Lab File: VL033901.D
 Acq: 13 Jun 2019 17:11

Tgt Ion	Ratio	Lower	Upper
88	100		
58	121.2	100.0	150.0
43	0.0	184.7	277.1#
57	0.0	826.8	1240.2#





#41

Tetrahydrofuran

Concen: 12.242 ppbv

RT: 6.13 min Scan# 994

Delta R.T. -0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

Instrument :

MSVOA_L

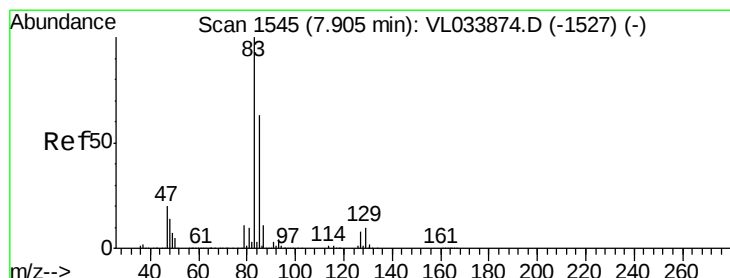
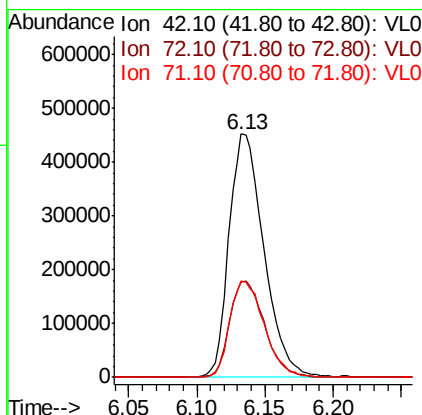
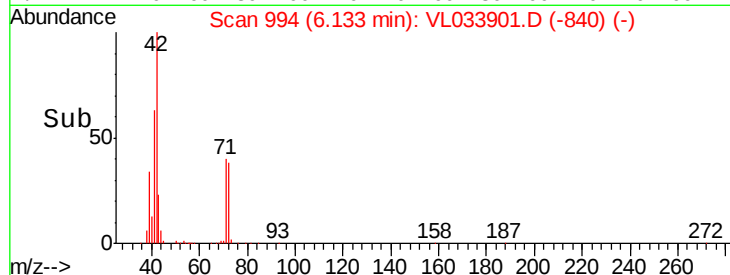
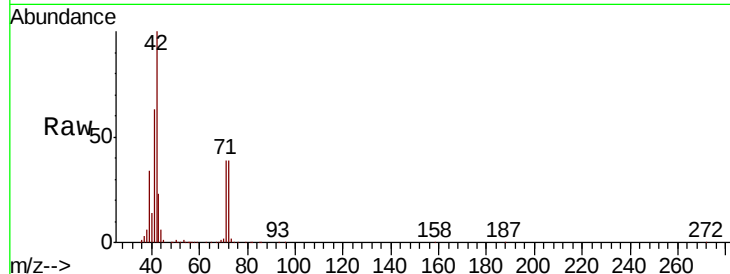
ClientSampleId :

VL0613ABS01

Tot Ion:	42	Resp:	804390
Ion Ratio		Lower	Upper
42	100		
72	39.9	32.2	48.4
71	39.2	31.7	47.5

Manual Integrations
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MMDadoda
6/17/2019 12:37:04 AM



#42

Bromodichloromethane

Concen: 10.935 ppbv

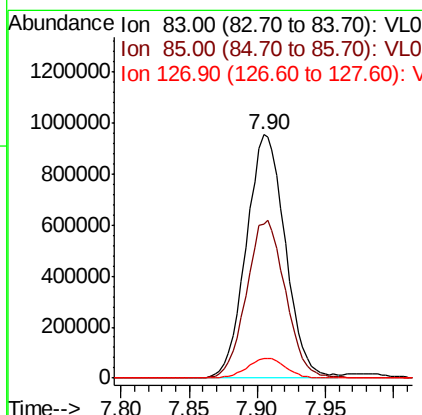
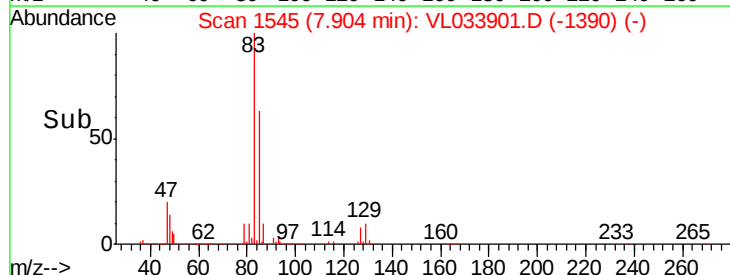
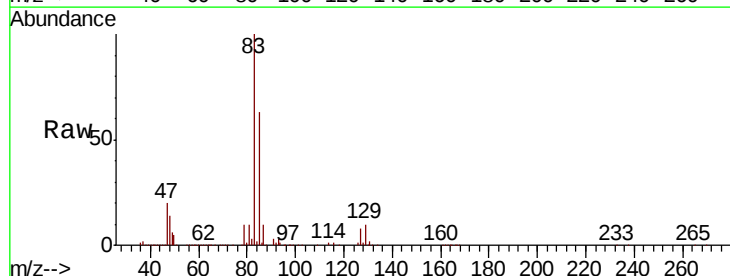
RT: 7.90 min Scan# 1545

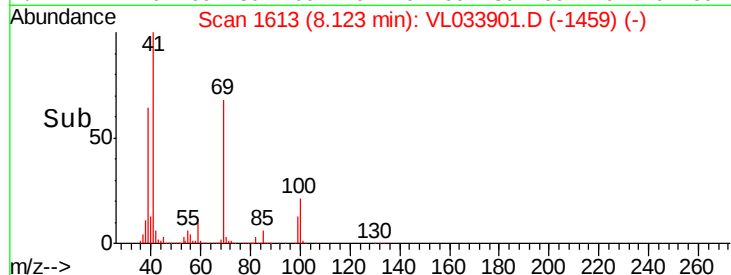
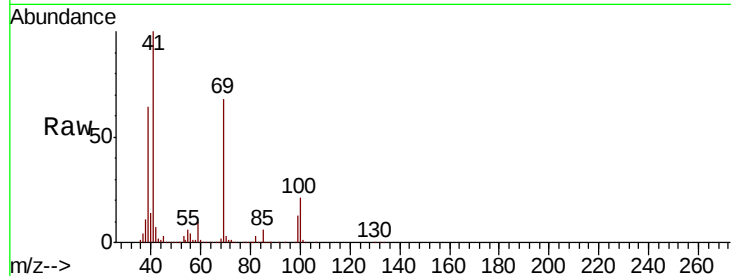
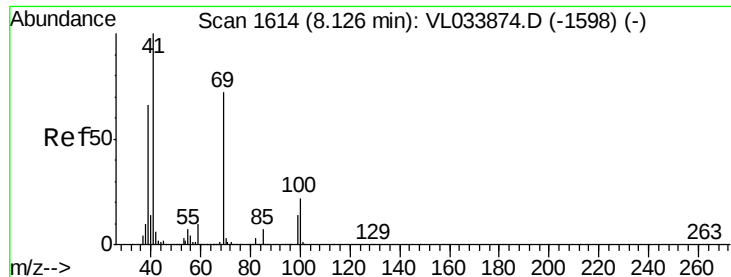
Delta R.T. -0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

Tgt Ion:	83	Resp:	1894414
Ion Ratio		Lower	Upper
83	100		
85	63.4	50.2	75.2
127	8.2	6.5	9.7





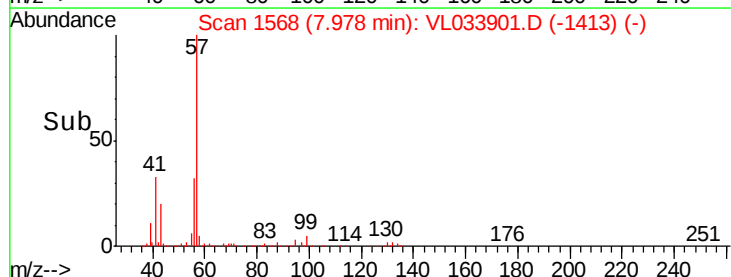
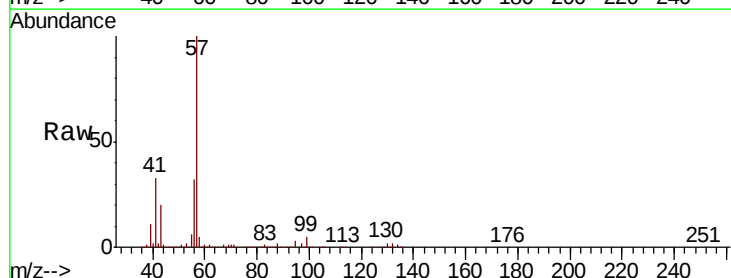
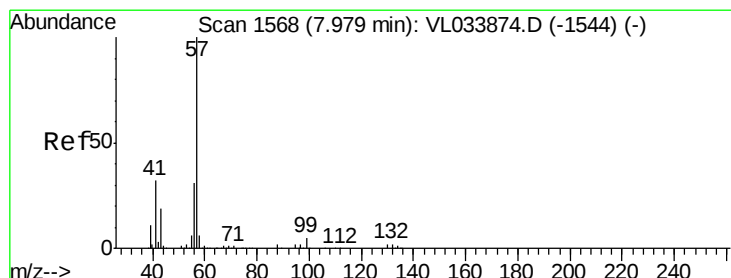
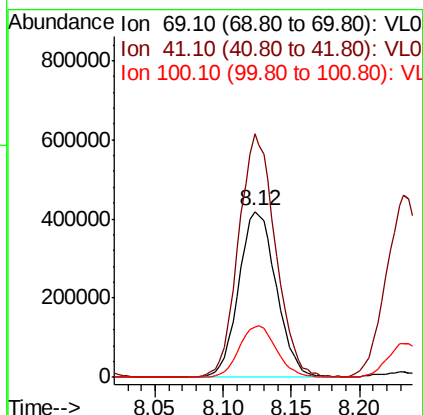
#43
Methvl Methacrvlate
Concen: 12.205 ppbv
RT: 8.12 min Scan# 1613
Delta R.T. -0.00 min
Lab File: VL033901.D
Acq: 13 Jun 2019 17:11

Tot Ion	Ratio	Lower	Upper
69	100		
41	144.0	114.3	171.5
100	30.9	24.8	37.2

Instrument :
MSVOA_L
ClientSampleId :
VL0613ABS01

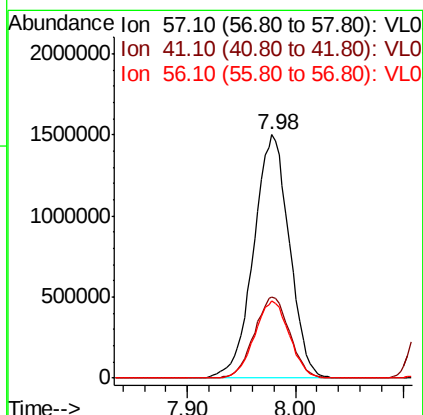
Manual Integrations
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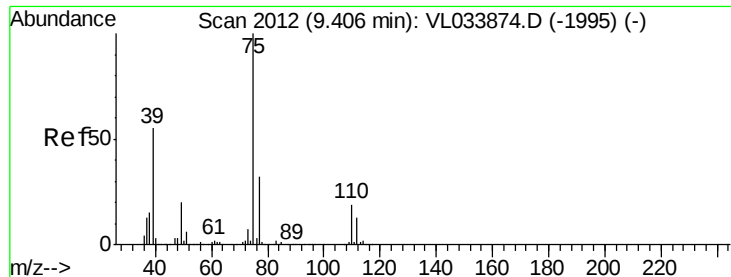
MMDadoda
6/17/2019 12:37:04 AM



#44
2,2,4-Trimethylpentane
Concen: 11.051 ppbv
RT: 7.98 min Scan# 1568
Delta R.T. -0.00 min
Lab File: VL033901.D
Acq: 13 Jun 2019 17:11

Tgt Ion	Ratio	Lower	Upper
57	100		
41	33.0	26.1	39.1
56	31.0	24.6	36.8





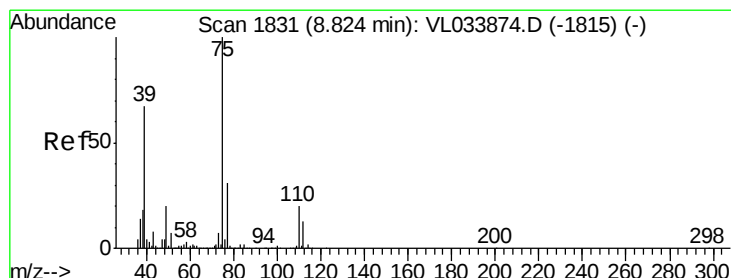
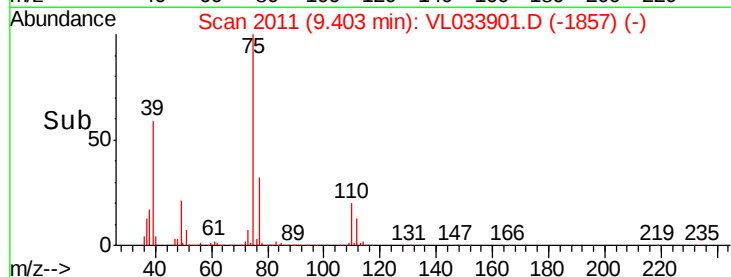
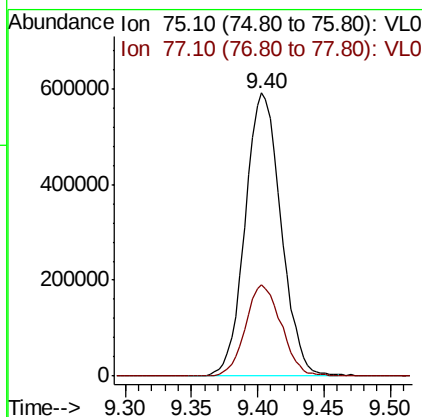
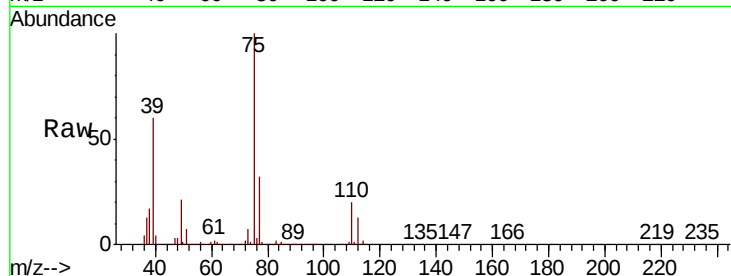
#45
 t-1,3-Dichloropropene
 Concen: 12.925 ppbv
 RT: 9.40 min Scan# 2011
 Delta R.T. -0.00 min
 Lab File: VL033901.D
 Acq: 13 Jun 2019 17:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0613ABS01

Tot Ion: 75 Resp: 1111812
 Ion Ratio Lower Upper
 75 100
 77 32.2 25.4 38.2

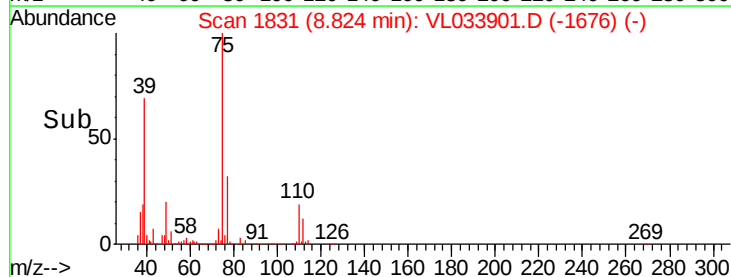
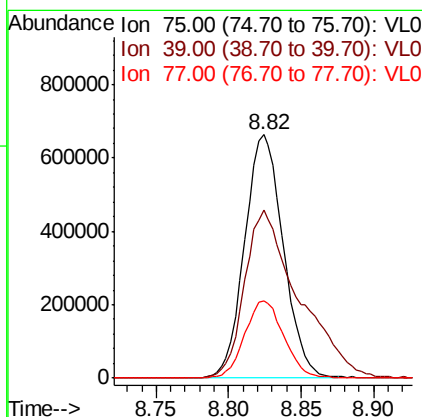
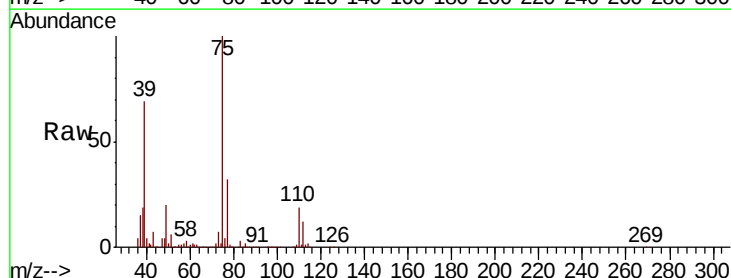
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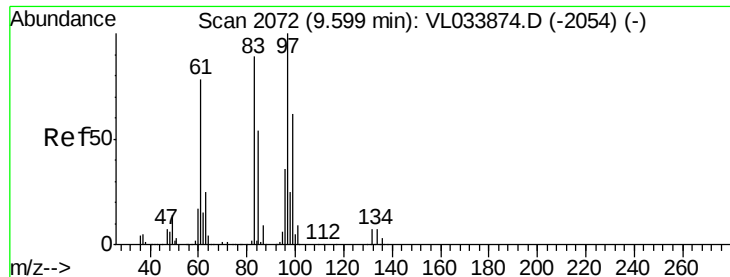
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 6/17/2019 12:37:04 AM



#46
 cis-1,3-Dichloropropene
 Concen: 12.519 ppbv
 RT: 8.82 min Scan# 1831
 Delta R.T. -0.00 min
 Lab File: VL033901.D
 Acq: 13 Jun 2019 17:11

Tgt Ion: 75 Resp: 1233792
 Ion Ratio Lower Upper
 75 100
 39 69.1 53.8 80.8
 77 31.9 24.6 36.8





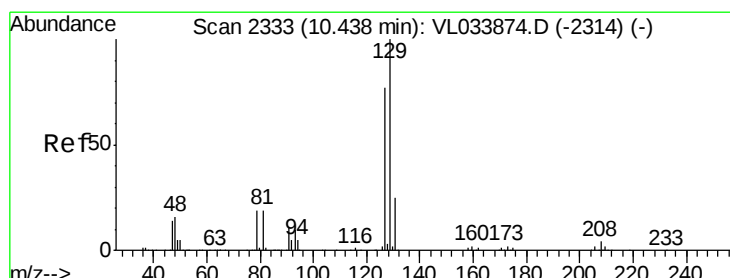
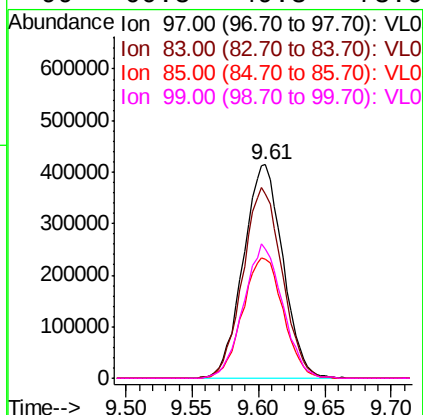
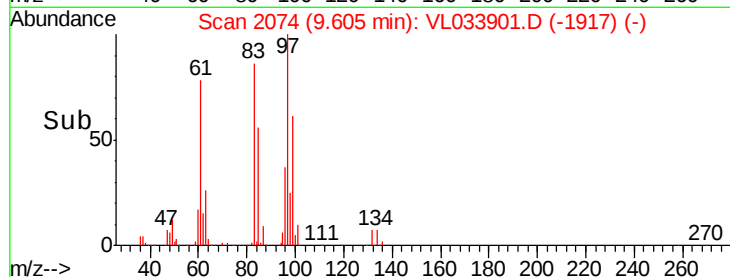
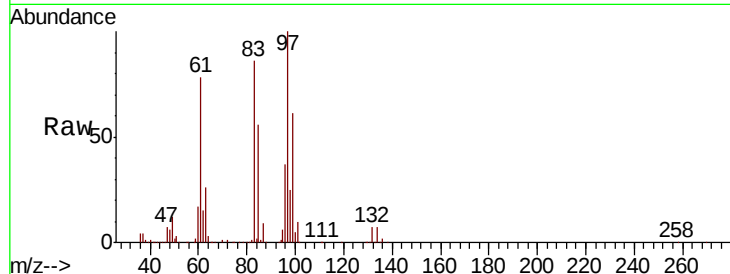
#47
 1,1,2-Trichloroethane
 Concen: 10.658 ppbv
 RT: 9.61 min Scan# 2074
 Delta R.T. 0.01 min
 Lab File: VL033901.D
 Acq: 13 Jun 2019 17:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0613ABS01

Tot Ion	Ratio	Lower	Upper
97	100		
83	86.3	70.9	106.3
85	55.4	43.0	64.6
99	60.8	49.3	73.9

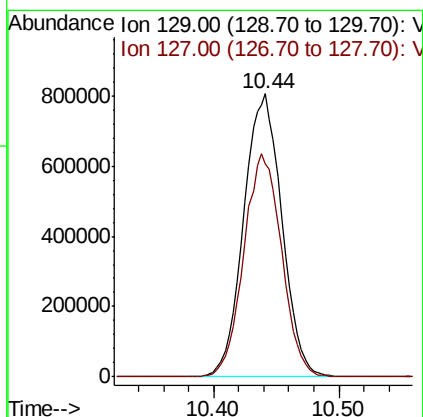
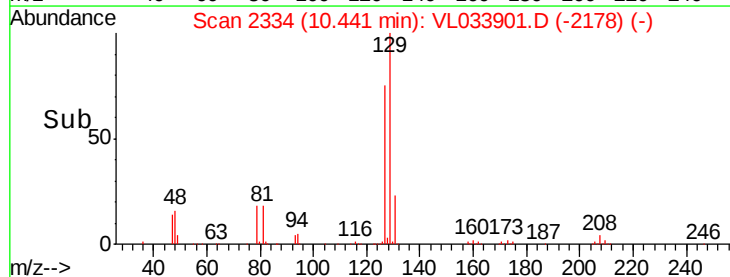
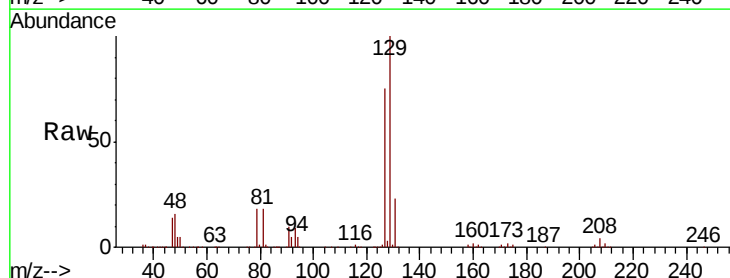
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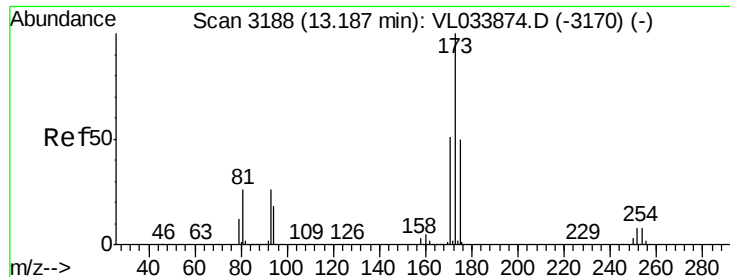
MMDadoda
 6/17/2019 12:37:04 AM



#48
 Dibromochloromethane
 Concen: 11.686 ppbv
 RT: 10.44 min Scan# 2334
 Delta R.T. 0.00 min
 Lab File: VL033901.D
 Acq: 13 Jun 2019 17:11

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.2	38.6	115.7





#49

Bromoform

Concen: 11.913 ppbv

RT: 13.19 min Scan# 3189

Delta R.T. 0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

Instrument :

MSVOA_L

ClientSampleId :

VL0613ABS01

Tot Ion:173 Resp: 1524184

Ion Ratio Lower Upper

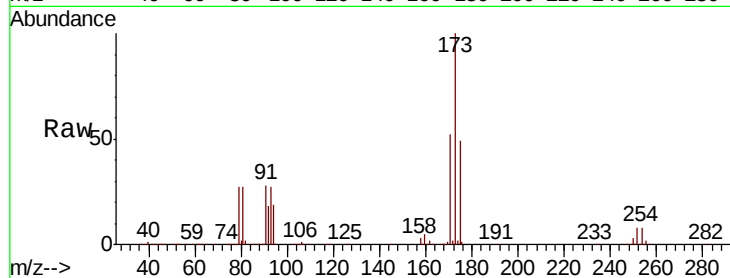
173 100

175 49.6 39.6 59.4

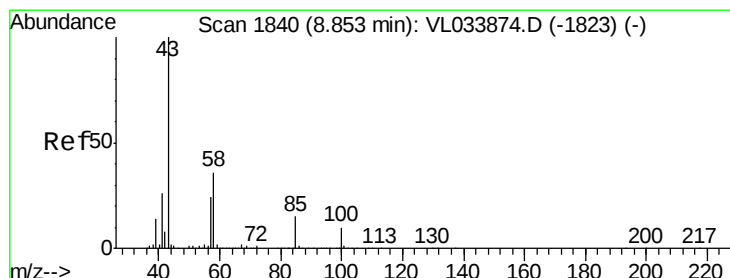
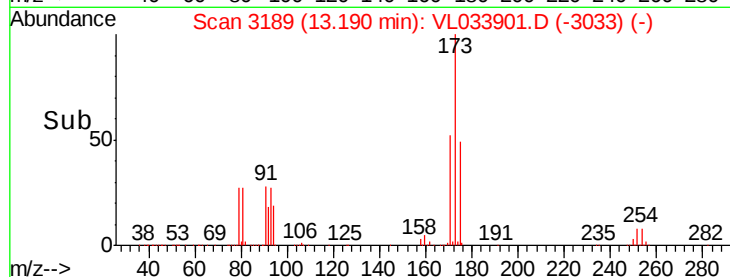
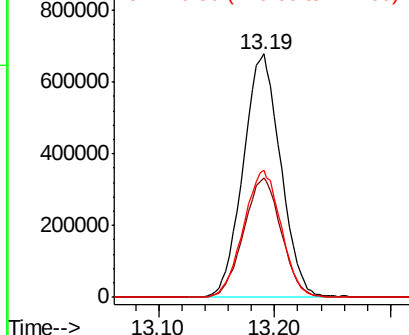
171 52.7 41.8 62.8

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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: 11.299 ppbv

RT: 8.86 min Scan# 1841

Delta R.T. 0.00 min

Lab File: VL033901.D

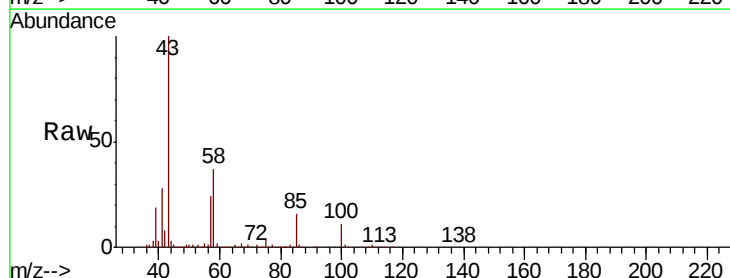
Acq: 13 Jun 2019 17:11

Tgt Ion: 43 Resp: 2181160

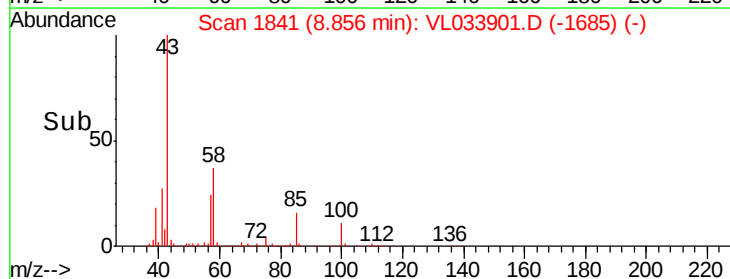
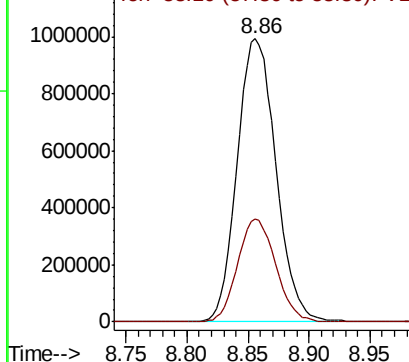
Ion Ratio Lower Upper

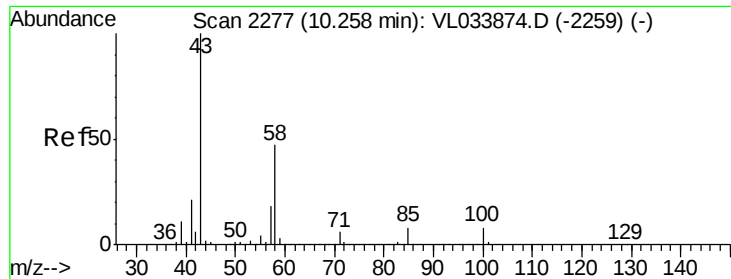
43 100

58 35.8 28.6 42.8



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





#51

2-Hexanone

Concen: 12.011 ppbv

RT: 10.26 min Scan# 2277

Delta R.T. -0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

Instrument :

MSVOA_L

ClientSampled :

VL0613ABS01

Tot Ion: 43 Resp: 1810522

Ion Ratio Lower Upper

43 100

58 47.5 38.2 57.4

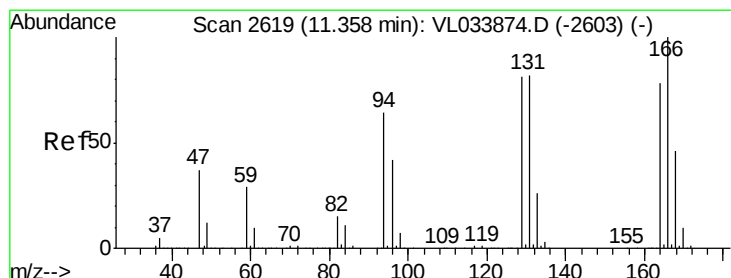
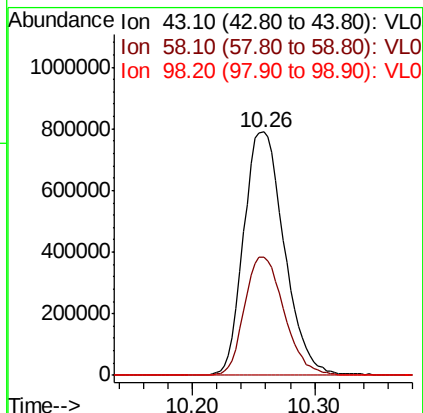
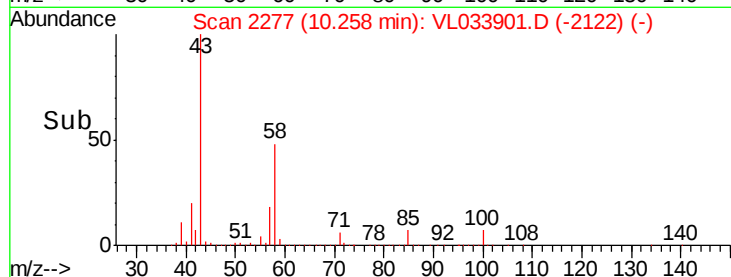
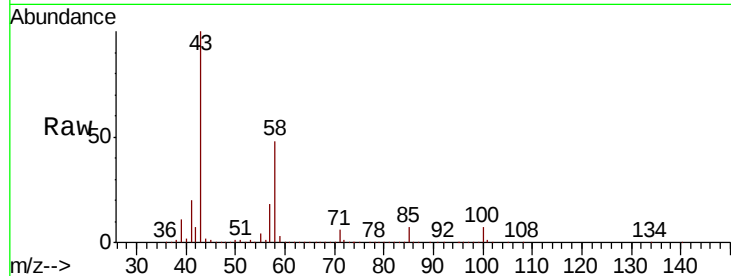
98 0.5 0.2 0.2#

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#52

Tetrachloroethene

Concen: 13.185 ppbv

RT: 11.36 min Scan# 2620

Delta R.T. 0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

Tgt Ion: 164 Resp: 813237

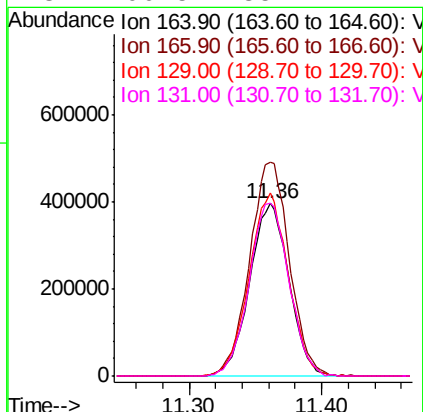
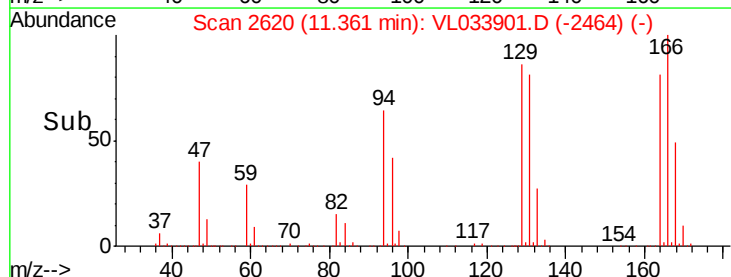
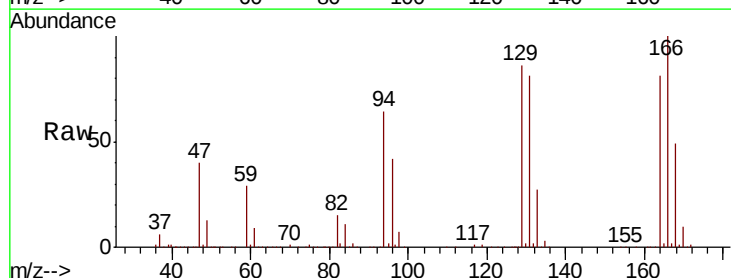
Ion Ratio Lower Upper

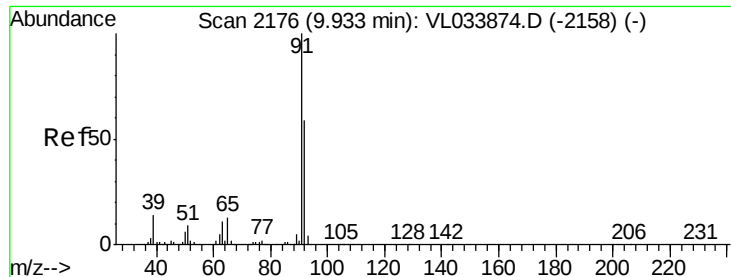
164 100

166 123.7 103.1 154.7

129 105.9 83.9 125.9

131 100.5 85.1 127.7





#53

Toluene

Concen: 12.134 ppbv

RT: 9.94 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

Instrument :

MSVOA_L

ClientSampleId :

VL0613ABS01

Tot Ion: 91 Resp: 2353824

Ion Ratio Lower Upper

91 100

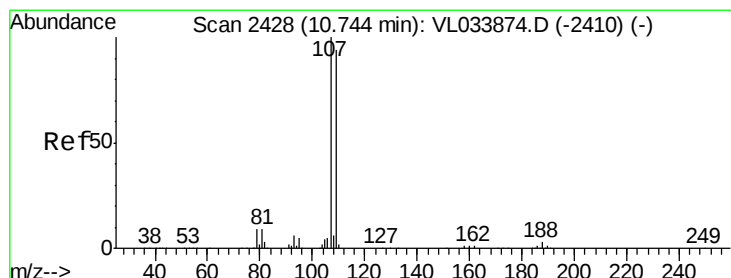
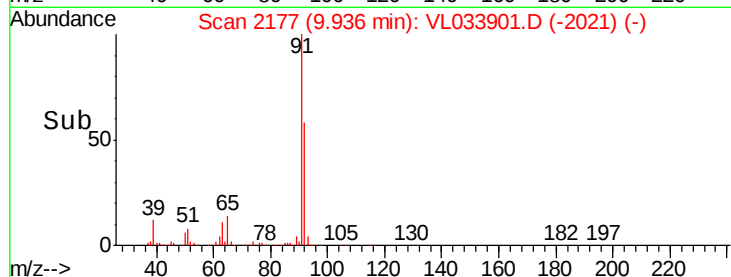
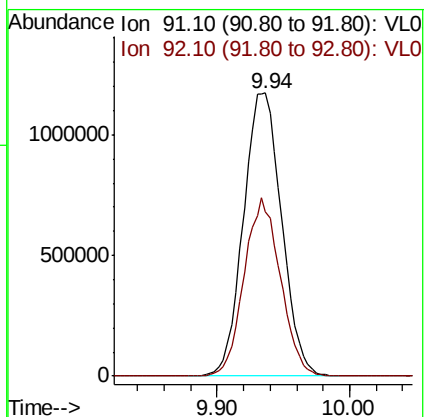
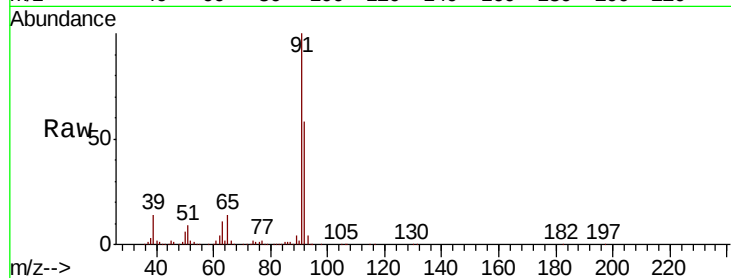
92 59.7 47.0 70.6

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#54

1,2-Dibromoethane

Concen: 11.201 ppbv

RT: 10.75 min Scan# 2430

Delta R.T. 0.01 min

Lab File: VL033901.D

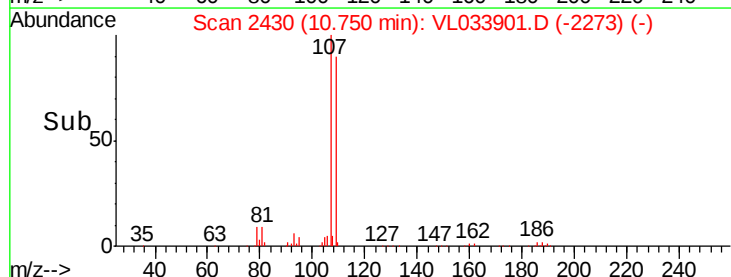
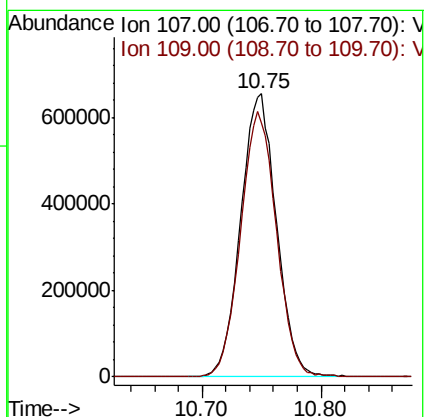
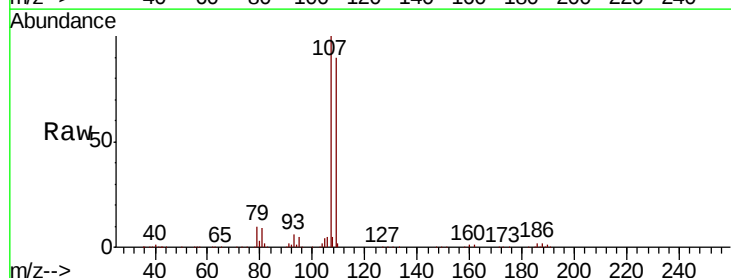
Acq: 13 Jun 2019 17:11

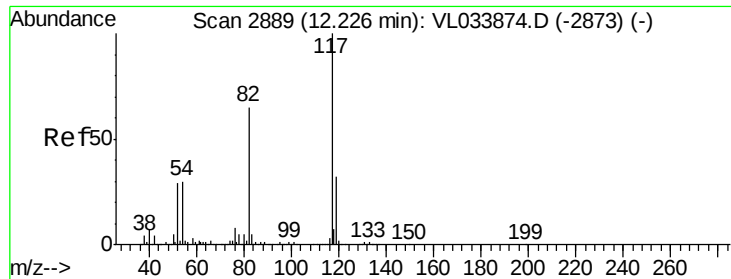
Tgt Ion: 107 Resp: 1361721

Ion Ratio Lower Upper

107 100

109 89.8 74.9 112.3





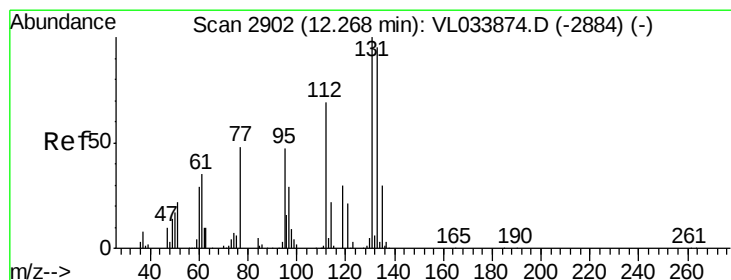
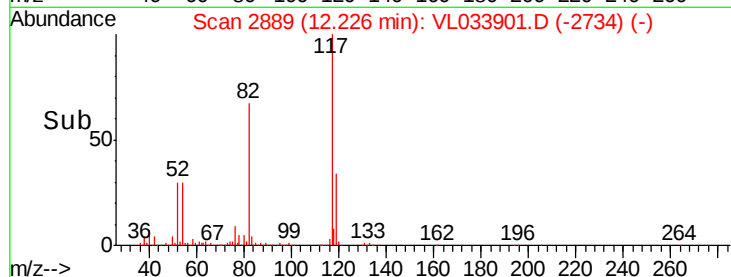
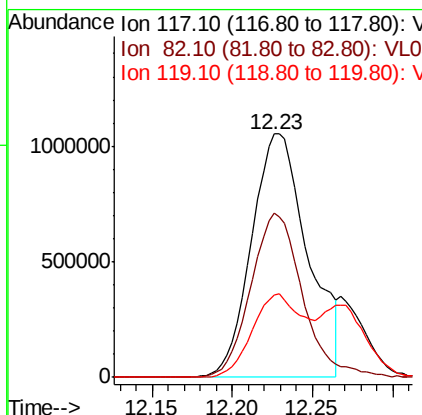
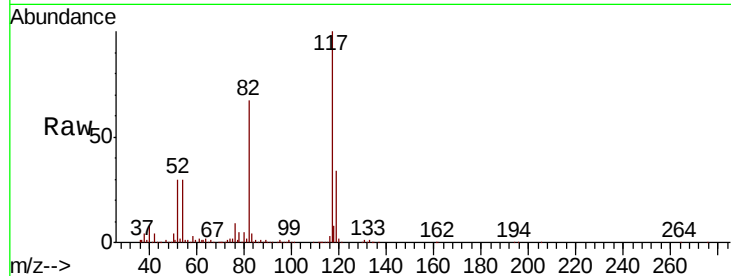
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.23 min Scan# 2889
Delta R.T. -0.00 min
Lab File: VL033901.D
Acq: 13 Jun 2019 17:11

Instrument :
MSVOA_L
ClientSampleId :
VL0613ABS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	62.1	50.2	75.2
119	33.9	24.8	37.2

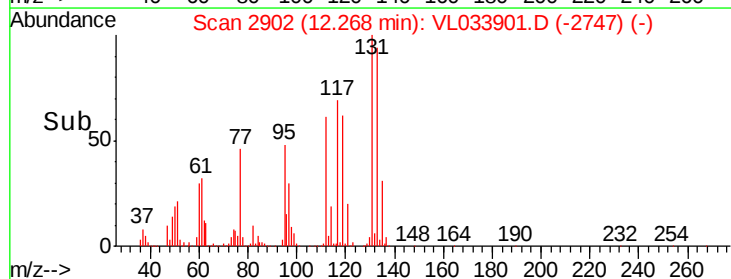
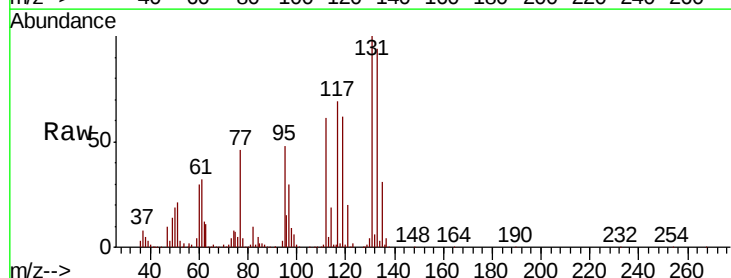
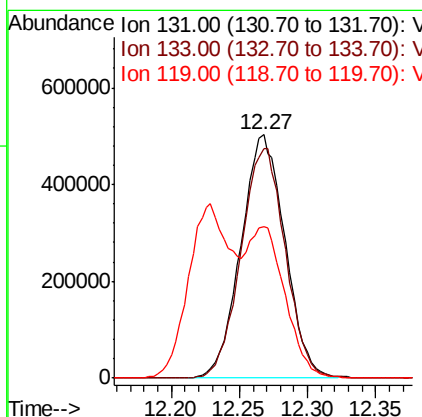
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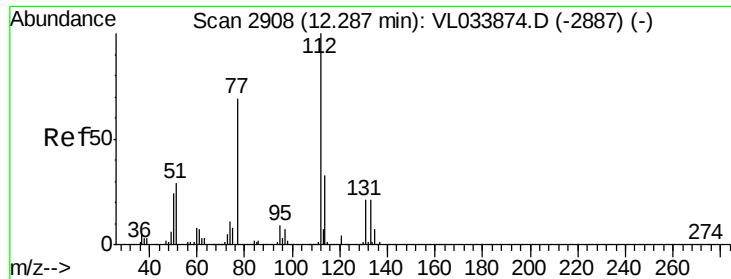
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#56
1,1,1,2-Tetrachloroethane
Concen: 10.094 ppbv
RT: 12.27 min Scan# 2902
Delta R.T. -0.00 min
Lab File: VL033901.D
Acq: 13 Jun 2019 17:11

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.0	76.5	114.7
119	57.9	42.6	64.0





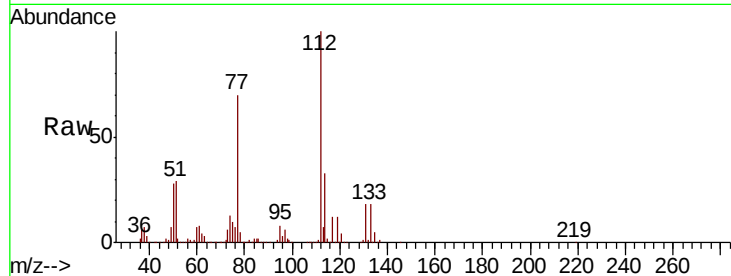
#57
Chlorobenzene
Concen: 9.812 ppbv
RT: 12.29 min Scan# 2909
Delta R.T. 0.00 min
Lab File: VL033901.D
Acq: 13 Jun 2019 17:11

Instrument :
MSVOA_L
ClientSampleId :
VL0613ABS01

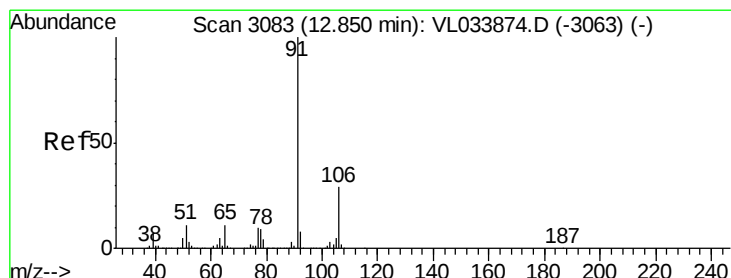
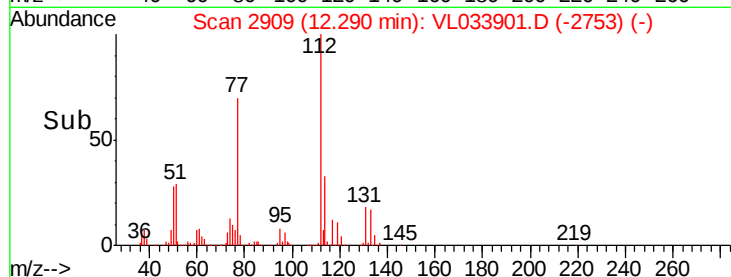
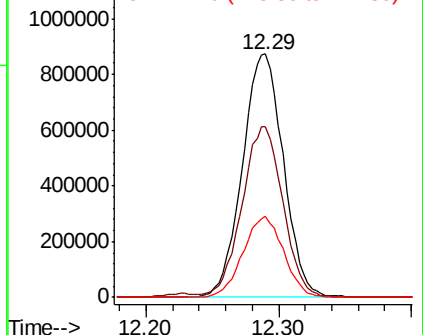
Tot Ion	Ratio	Lower	Upper
112	100		
77	69.7	55.8	83.6
114	33.2	29.8	36.4

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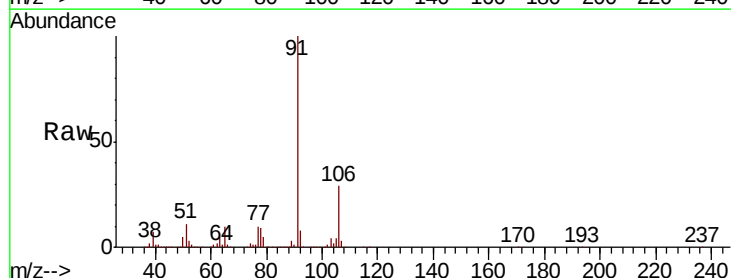


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V

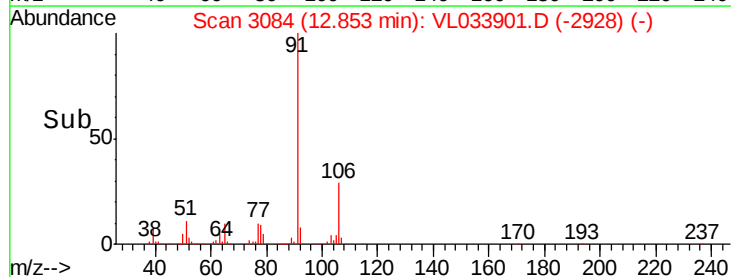
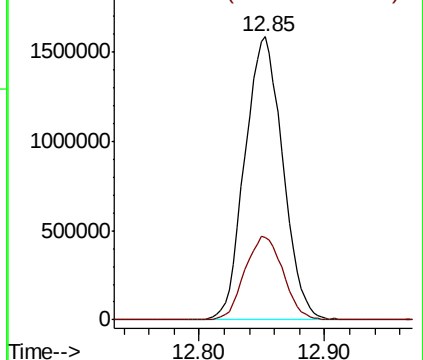


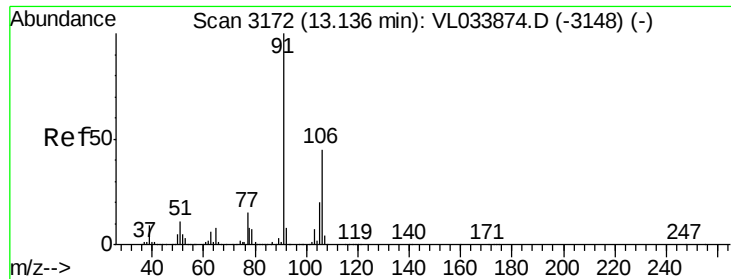
#58
Ethyl Benzene
Concen: 11.598 ppbv
RT: 12.85 min Scan# 3084
Delta R.T. 0.00 min
Lab File: VL033901.D
Acq: 13 Jun 2019 17:11

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.2	23.0	34.6



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





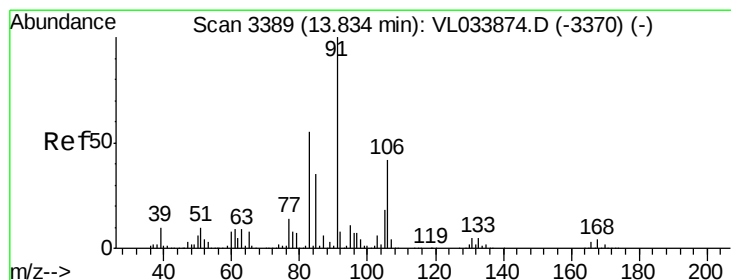
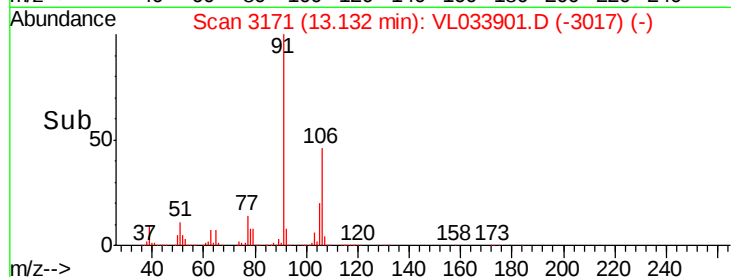
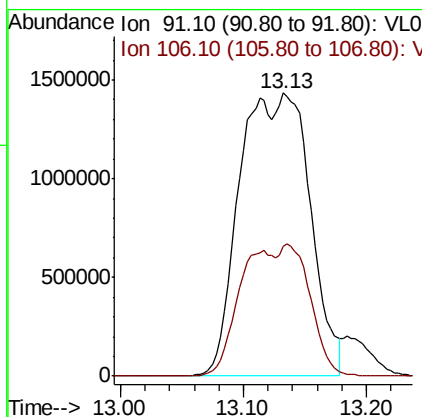
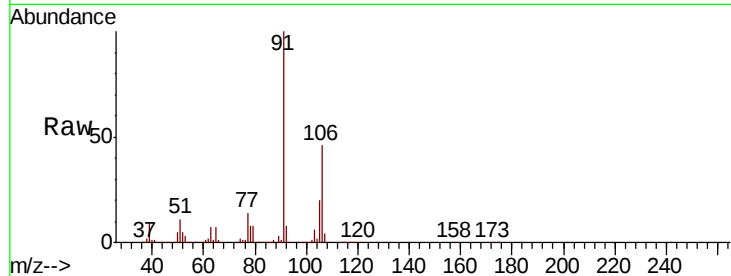
#59
m/p-Xylene
Concen: 21.689 ppbv m
RT: 13.13 min Scan# 3171
Delta R.T. -0.00 min
Lab File: VL033901.D
Acq: 13 Jun 2019 17:11

Instrument :
MSVOA_L
ClientSampleId :
VL0613ABS01

Tot Ion: 91 Resp: 5677703
Ion Ratio Lower Upper
91 100
106 45.0 35.8 53.8

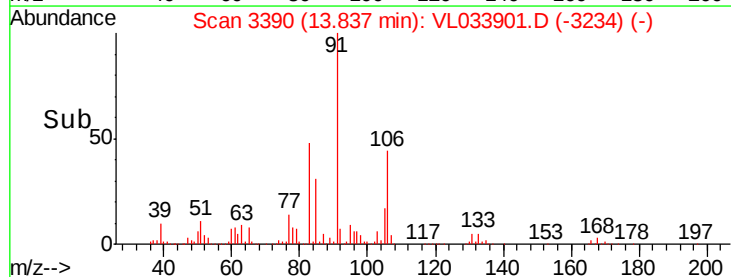
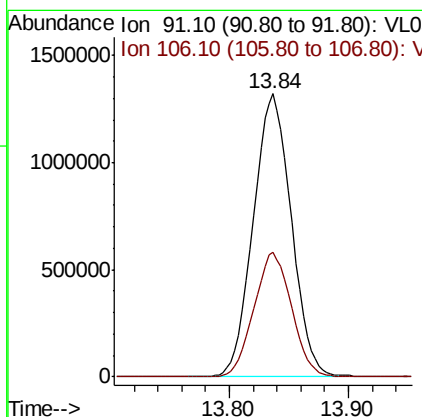
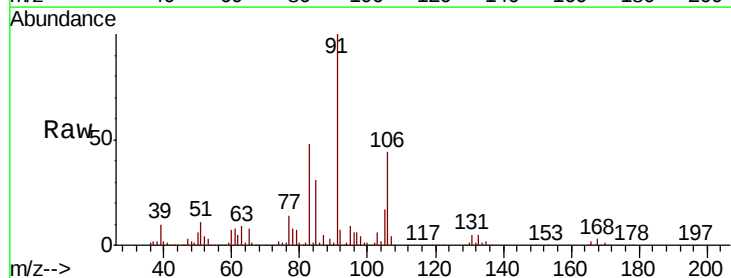
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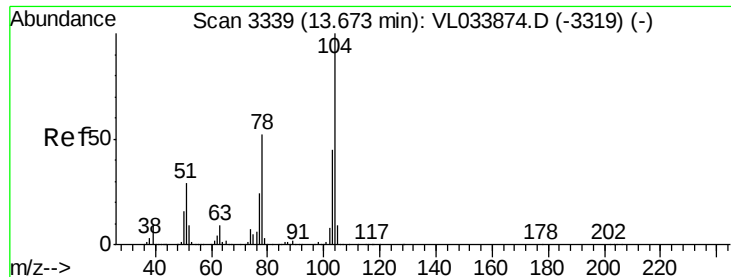
MMDadoda
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#60
o-Xylene
Concen: 10.794 ppbv
RT: 13.84 min Scan# 3390
Delta R.T. 0.00 min
Lab File: VL033901.D
Acq: 13 Jun 2019 17:11

Tgt Ion: 91 Resp: 2917509
Ion Ratio Lower Upper
91 100
106 43.6 21.7 65.1





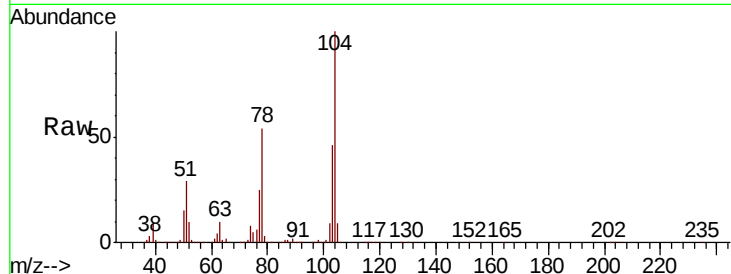
#61
Stvrene
Concen: 11.998 ppbv
RT: 13.67 min Scan# 3339
Delta R.T. -0.00 min
Lab File: VL033901.D
Acq: 13 Jun 2019 17:11

Instrument :
MSVOA_L
ClientSampled :
VL0613ABS01

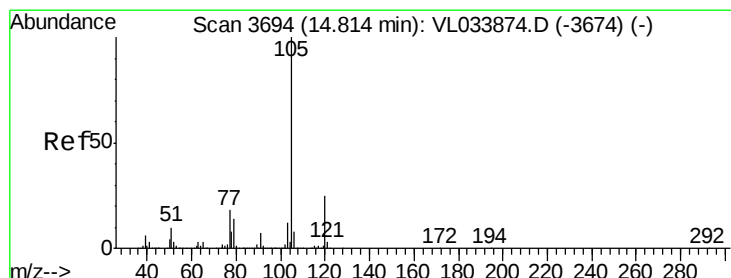
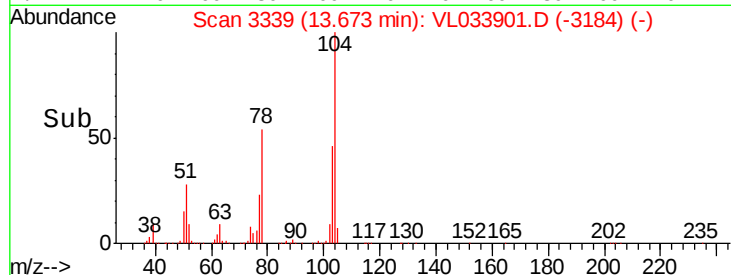
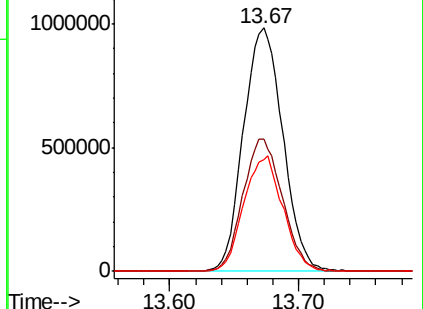
Tot Ion	Ratio	Lower	Upper
104	100		
78	54.5	43.4	65.0
103	47.2	37.6	56.4

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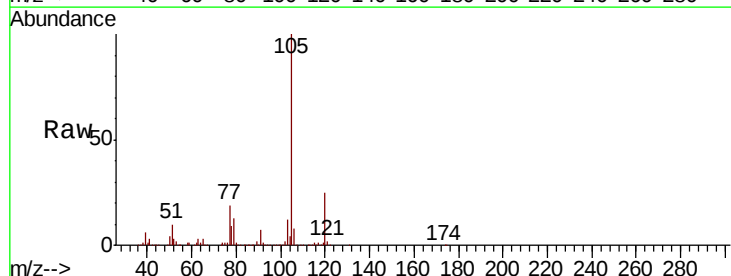


Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VL0
Ion 103.10 (102.80 to 103.80): V

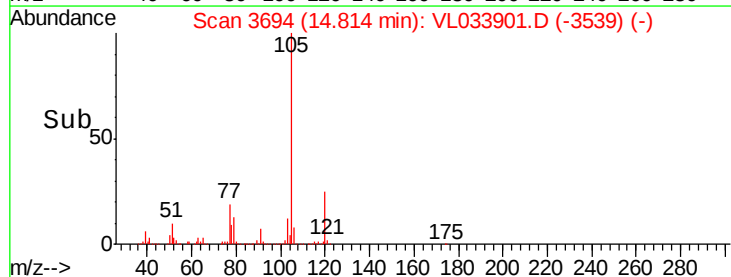
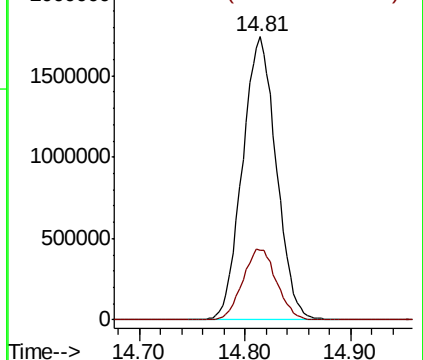


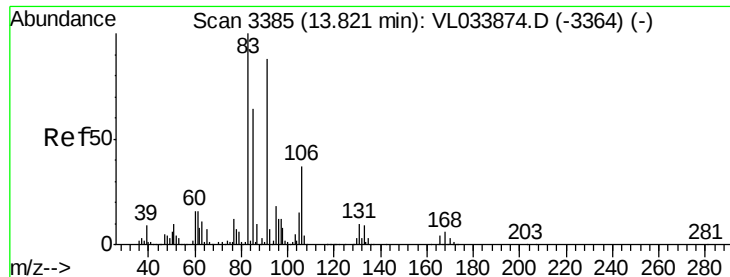
#62
Isopropylbenzene
Concen: 10.647 ppbv
RT: 14.81 min Scan# 3694
Delta R.T. -0.00 min
Lab File: VL033901.D
Acq: 13 Jun 2019 17:11

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.3	20.3	30.5



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: 10.198 ppbv

RT: 13.82 min Scan# 3386

Delta R.T. 0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

Instrument :

MSVOA_L

ClientSampleId :

VL0613ABS01

Tot Ion: 83 Resp: 2074872

Ion Ratio Lower Upper

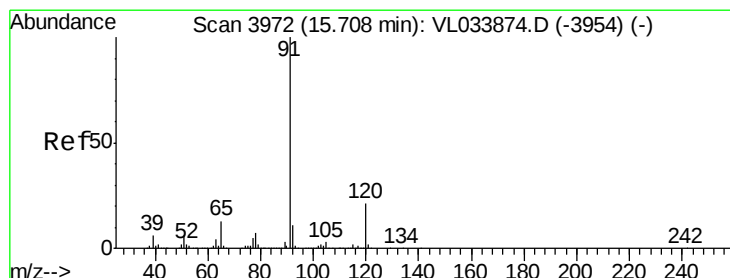
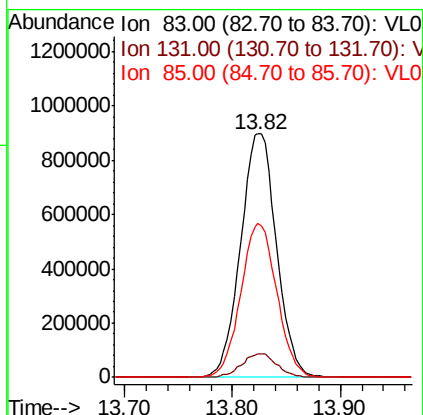
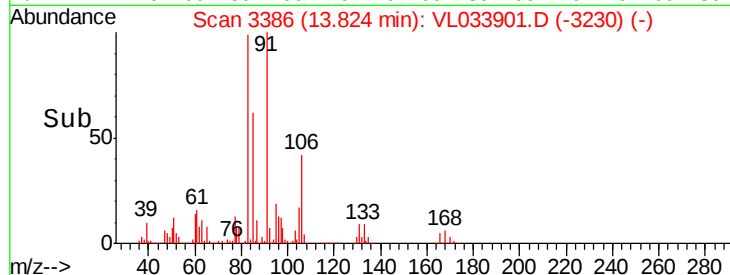
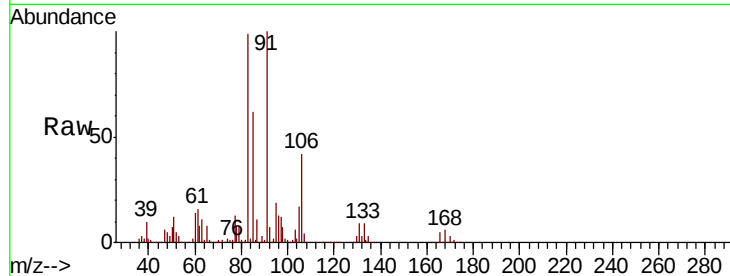
83 100

131 9.6 4.8 14.4

85 63.7 32.1 96.3

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#64

n-propylbenzene

Concen: 10.985 ppbv

RT: 15.71 min Scan# 3973

Delta R.T. 0.00 min

Lab File: VL033901.D

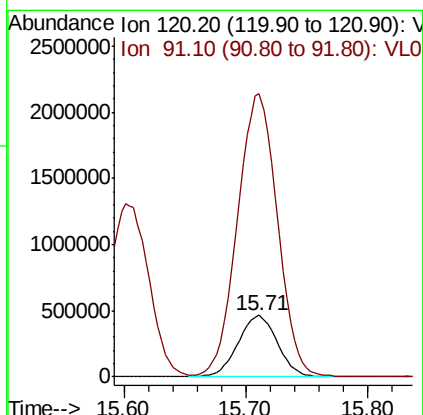
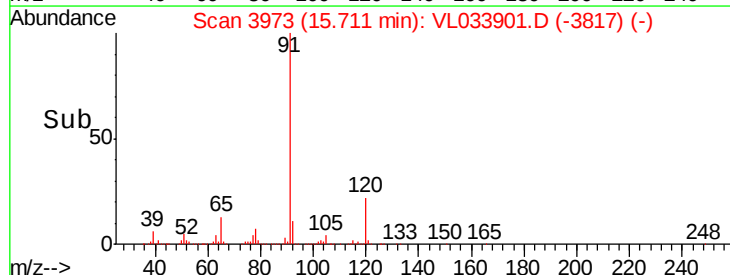
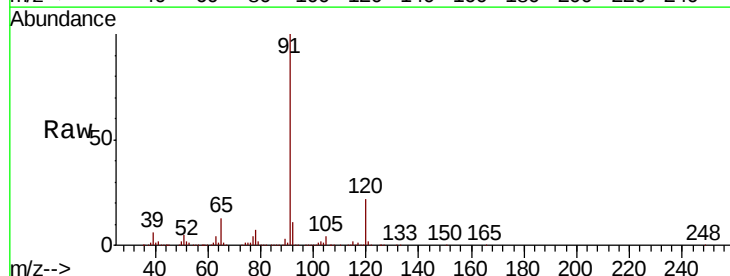
Acq: 13 Jun 2019 17:11

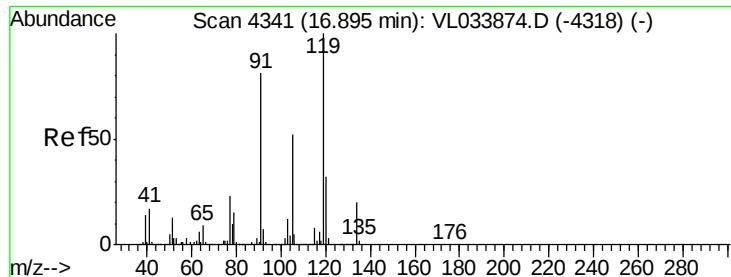
Tgt Ion:120 Resp: 1024764

Ion Ratio Lower Upper

120 100

91 474.2 387.0 580.6





#65

tert-Butylbenzene

Concen: 10.933 ppbv

RT: 16.90 min Scan# 4342

Delta R.T. 0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

Instrument :

MSVOA_L

ClientSampleId :

VL0613ABS01

Tot Ion:119 Resp: 3685020

Ion Ratio Lower Upper

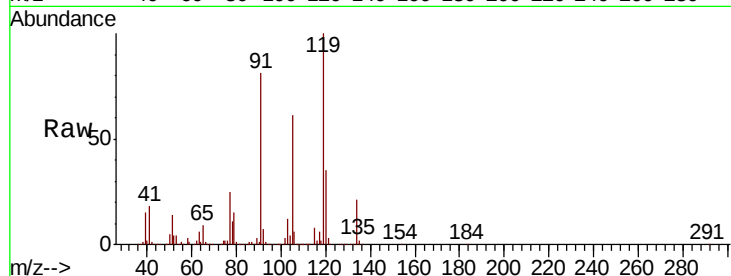
119 100

91 83.8 66.6 100.0

134 19.5 15.5 23.3

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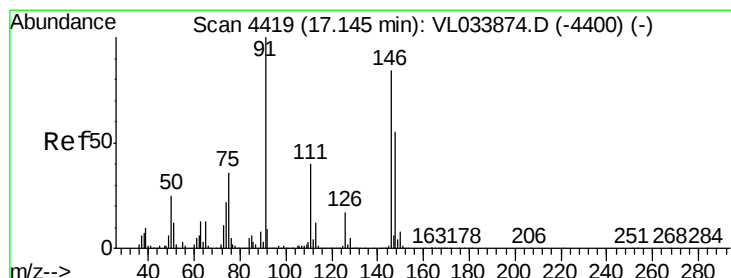
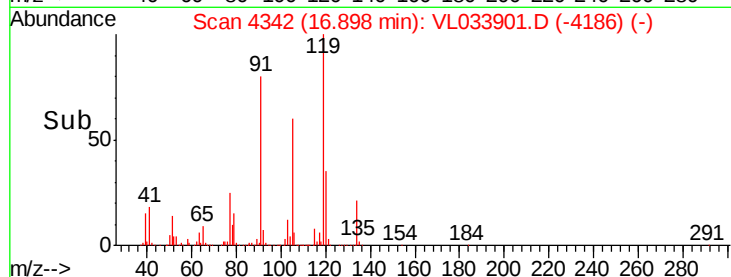
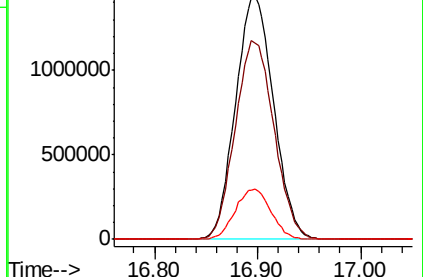
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Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 11.689 ppbv

RT: 17.15 min Scan# 4419

Delta R.T. -0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

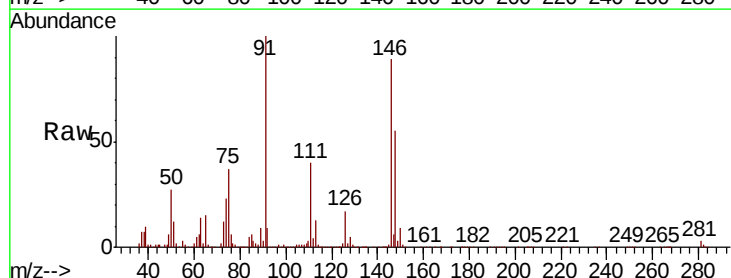
Tgt Ion: 91 Resp: 1996594

Ion Ratio Lower Upper

91 100

126 17.1 13.8 20.6

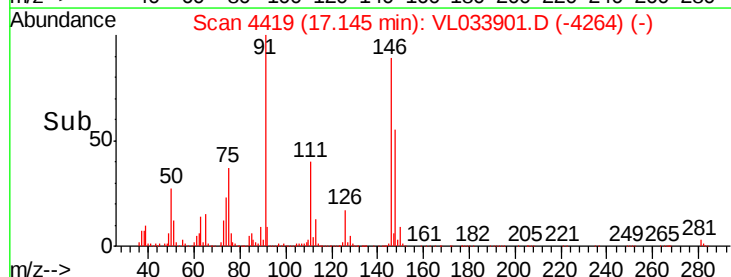
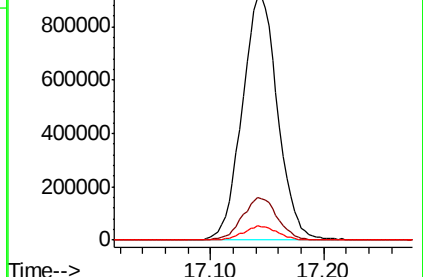
128 5.5 4.4 6.6

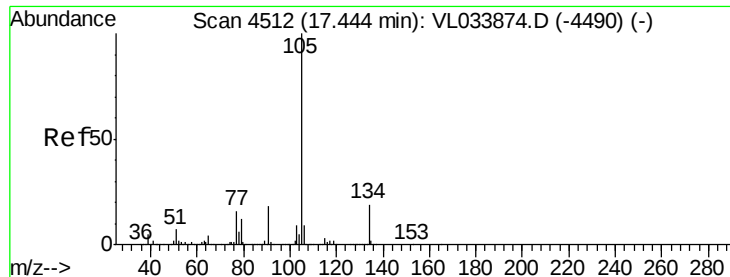


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 10.910 ppbv

RT: 17.45 min Scan# 4513

Delta R.T. 0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

Instrument :

MSVOA_L

ClientSampleId :

VL0613ABS01

Tot Ion: 105 Resp: 5158832

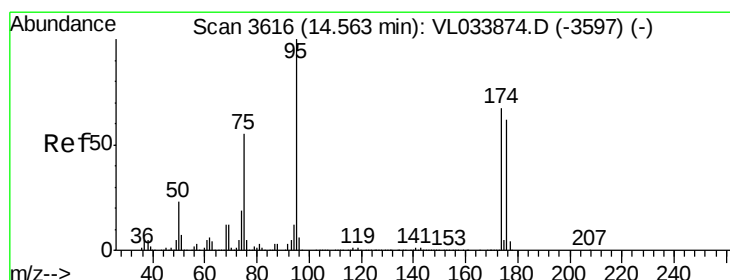
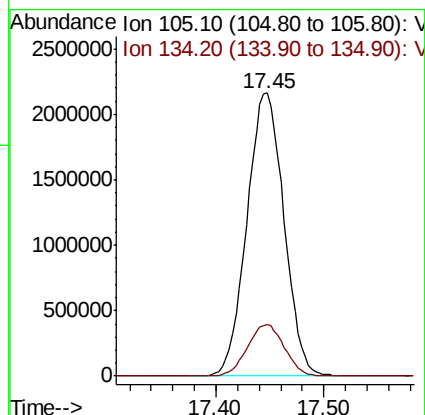
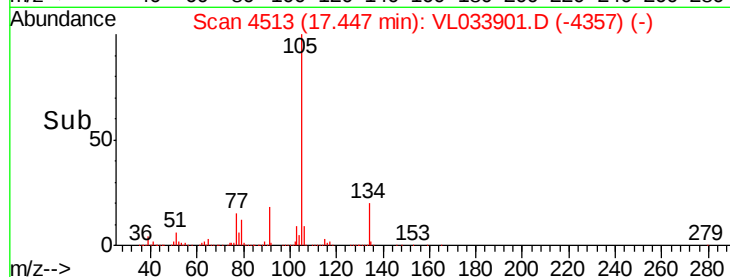
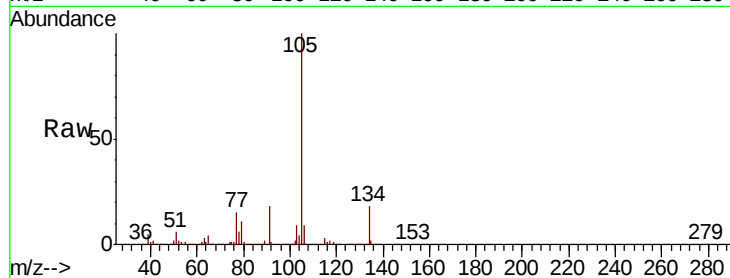
Ion Ratio Lower Upper

105 100

134 18.3 14.6 22.0

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#68

1-Bromo-4-Fluorobenzene

Concen: 9.405 ppbv

RT: 14.56 min Scan# 3616

Delta R.T. -0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

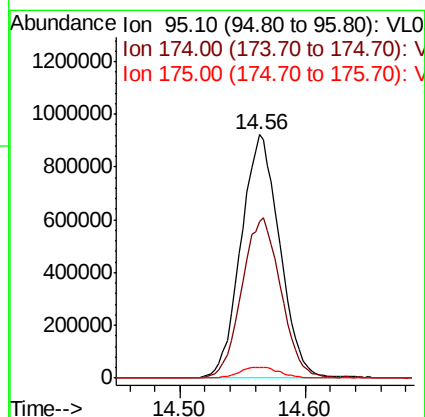
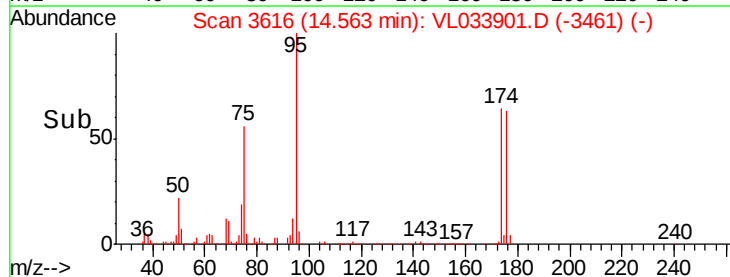
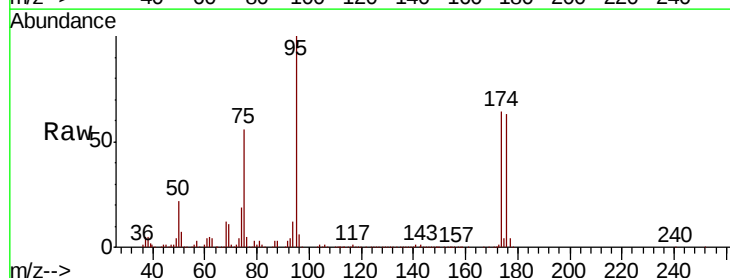
Tgt Ion: 95 Resp: 1972500

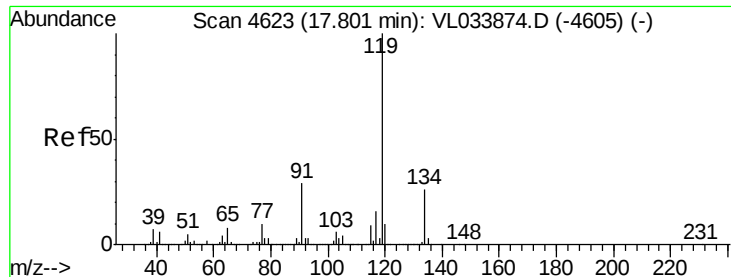
Ion Ratio Lower Upper

95 100

174 67.0 54.0 81.0

175 4.8 3.8 5.8





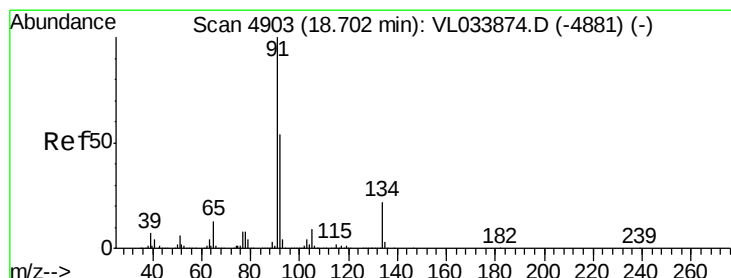
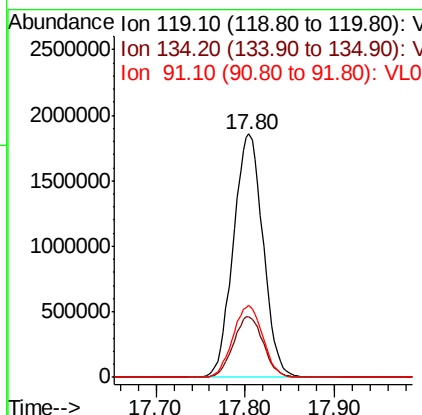
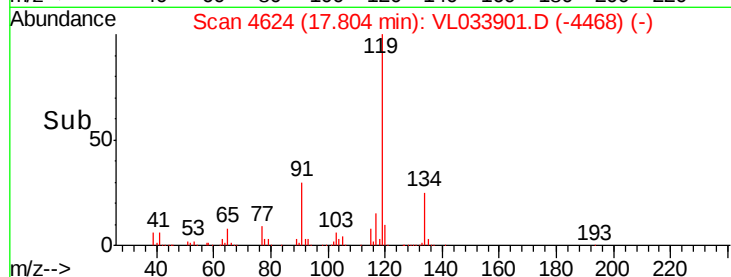
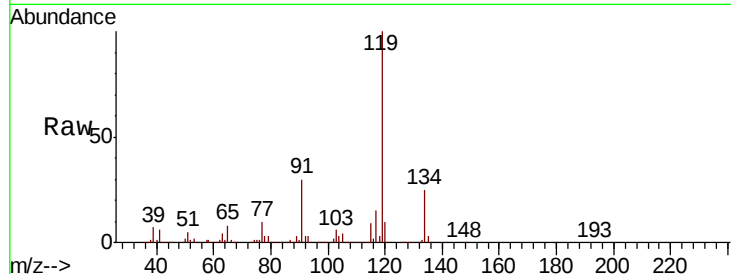
#69
 p-Isopropyltoluene
 Concen: 10.876 ppbv
 RT: 17.80 min Scan# 4624
 Delta R.T. 0.00 min
 Lab File: VL033901.D
 Acq: 13 Jun 2019 17:11

Instrument :
 MSVOA_L
 ClientSampleID :
 VL0613ABS01

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.1	20.3	30.5
91	29.8	23.8	35.6

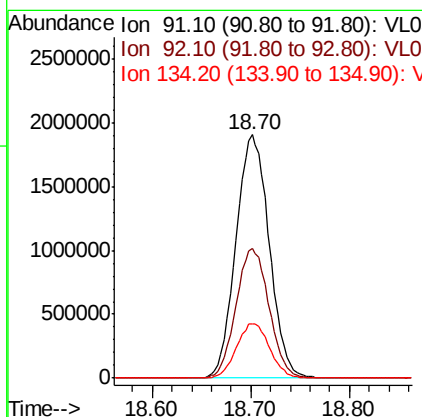
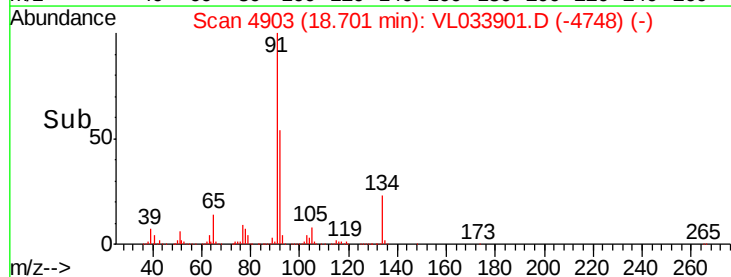
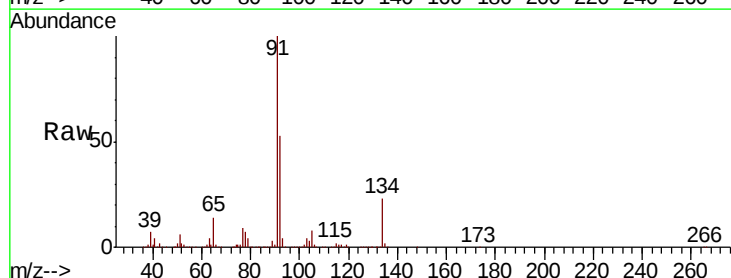
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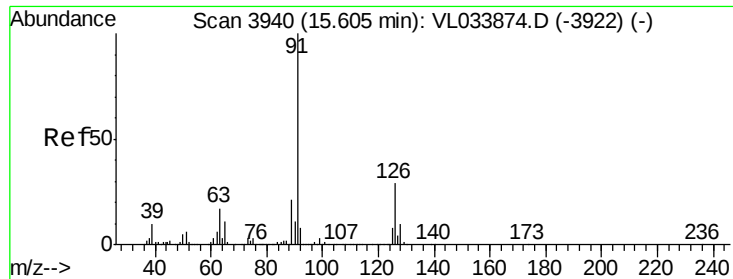
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#70
 n-Butylbenzene
 Concen: 10.315 ppbv
 RT: 18.70 min Scan# 4903
 Delta R.T. -0.00 min
 Lab File: VL033901.D
 Acq: 13 Jun 2019 17:11

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.0	42.5	63.7
134	22.4	17.8	26.6





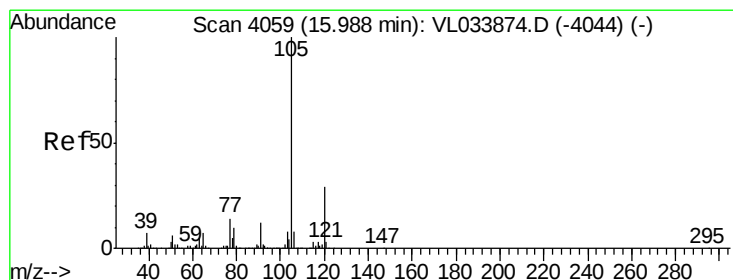
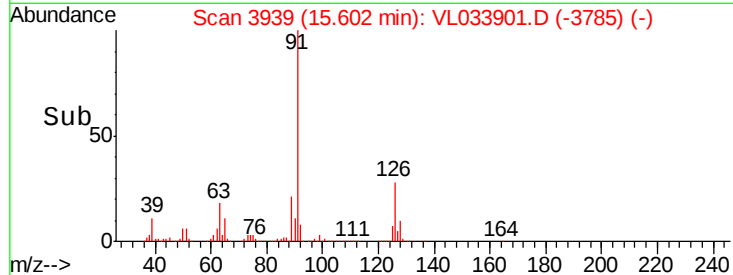
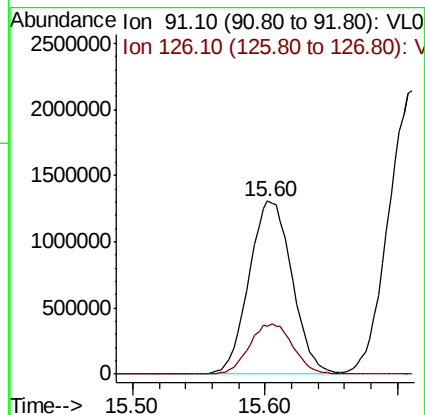
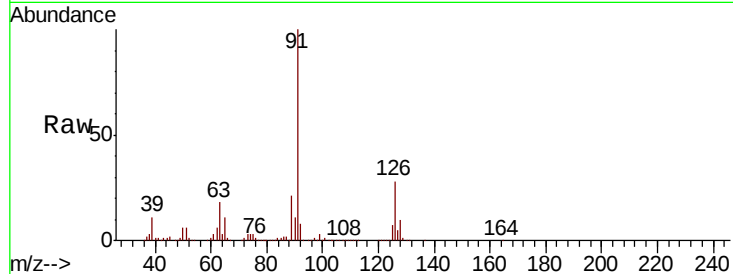
#71
 2-Chlorotoluene
 Concen: 11.046 ppbv
 RT: 15.60 min Scan# 3939
 Delta R.T. -0.00 min
 Lab File: VL033901.D
 Acq: 13 Jun 2019 17:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0613ABS01

Tot Ion: 91 Resp: 2964303
 Ion Ratio Lower Upper
 91 100
 126 29.4 12.0 48.2

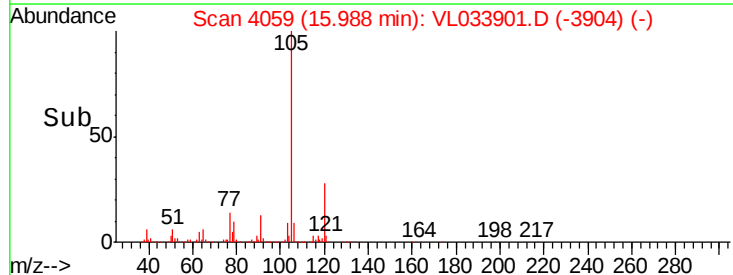
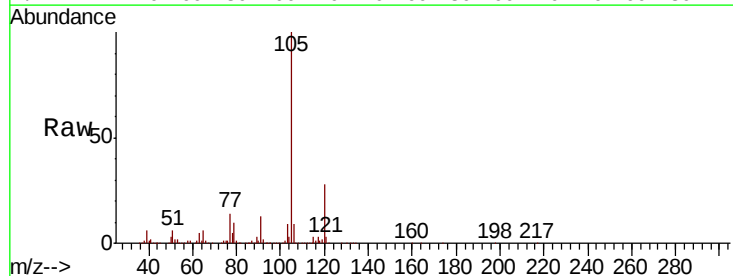
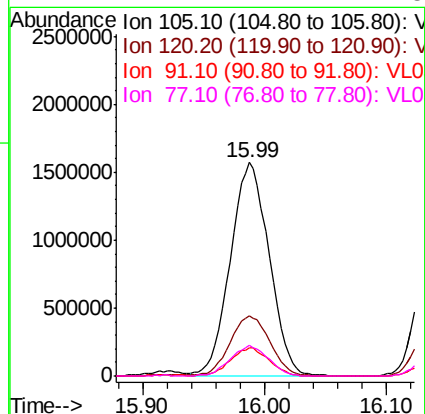
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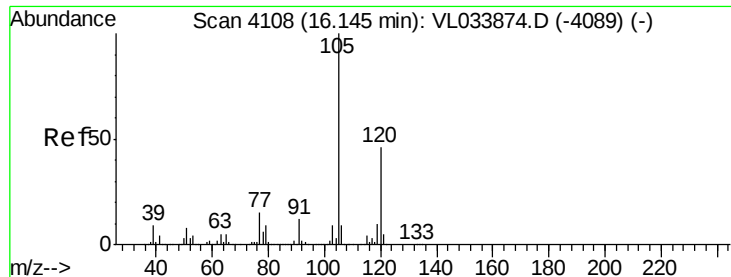
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#72
 4-Ethyltoluene
 Concen: 11.232 ppbv
 RT: 15.99 min Scan# 4059
 Delta R.T. -0.00 min
 Lab File: VL033901.D
 Acq: 13 Jun 2019 17:11

Tgt Ion:105 Resp: 3454652
 Ion Ratio Lower Upper
 105 100
 120 29.7 23.5 35.3
 91 13.2 10.4 15.6
 77 14.2 11.7 17.5





#73

1,3,5-Trimethylbenzene

Concen: 10.950 ppbv

RT: 16.15 min Scan# 4108

Delta R.T. -0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

Instrument :

MSVOA_L

ClientSampleId :

VL0613ABS01

Tot Ion:105 Resp: 3317343

Ion Ratio Lower Upper

105 100

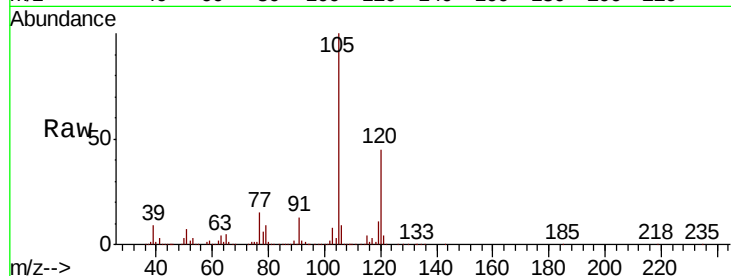
120 45.1 37.1 55.7

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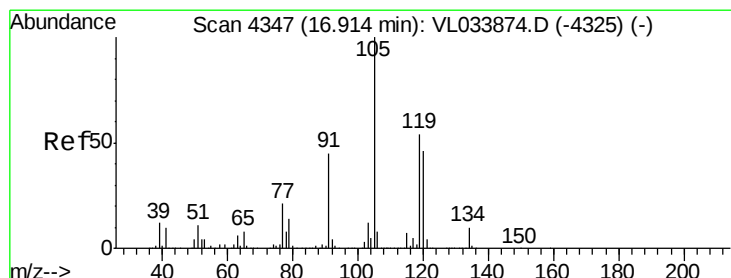
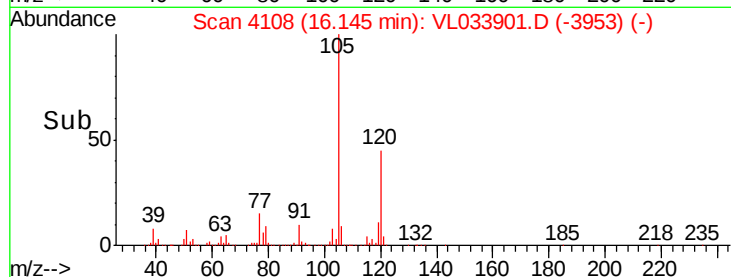
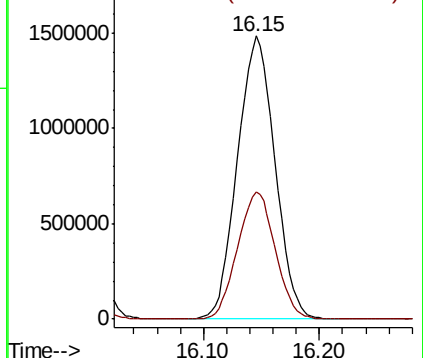
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 10.206 ppbv

RT: 16.91 min Scan# 4347

Delta R.T. -0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

Tgt Ion:105 Resp: 3563807

Ion Ratio Lower Upper

105 100

120 47.2 36.7 55.1

91 48.0 35.8 53.8

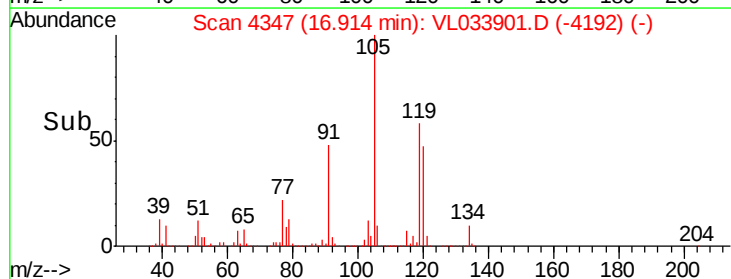
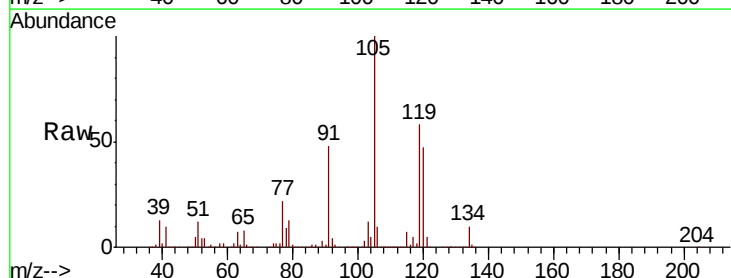
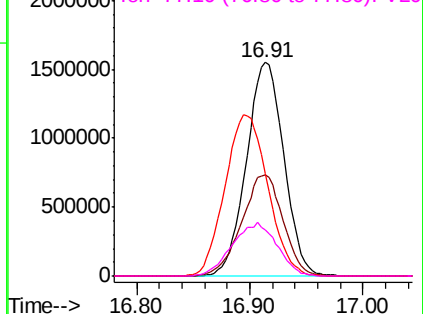
77 21.8 16.9 25.3

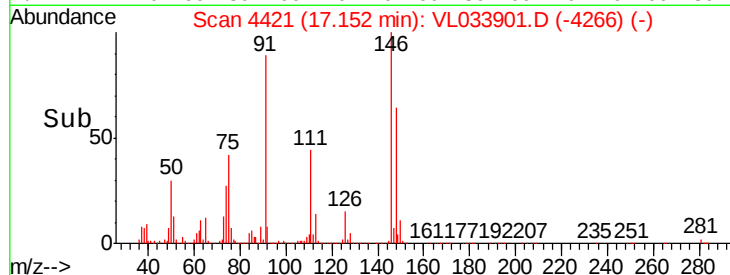
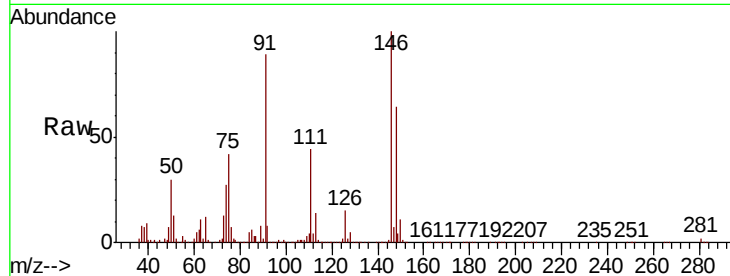
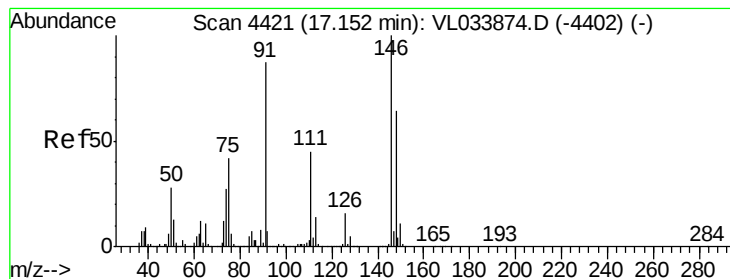
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VLO

Ion 77.10 (76.80 to 77.80): VLO





#75

1,3-Dichlorobenzene

Concen: 9.585 ppbv

RT: 17.15 min Scan# 4421

Delta R.T. -0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

Tot Ion:	146	Resp:	2096018
Ion	Ratio	Lower	Upper
146	100		
111	45.6	22.8	68.3
148	63.9	32.2	96.6

Instrument :

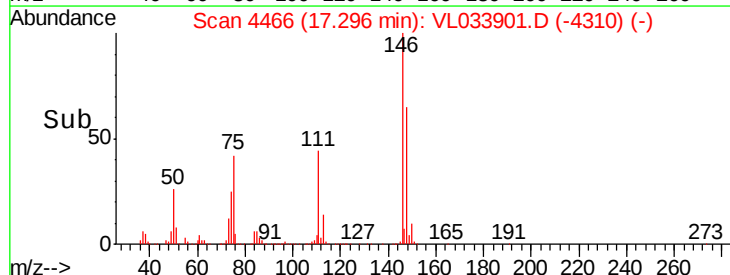
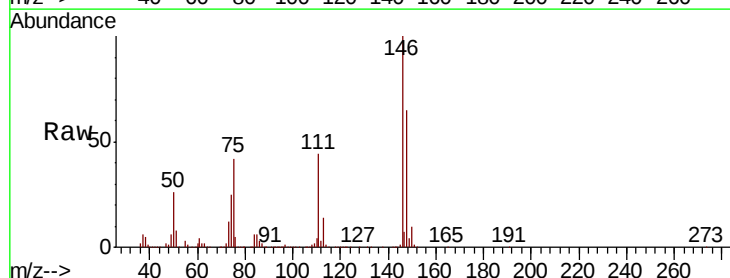
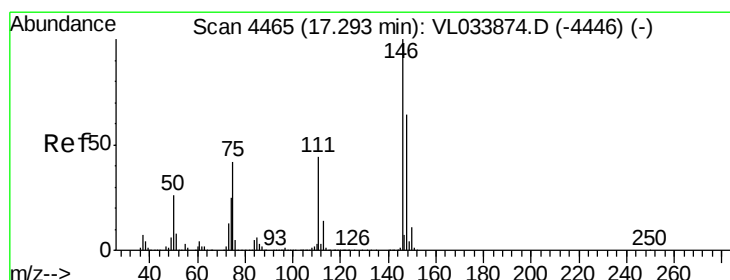
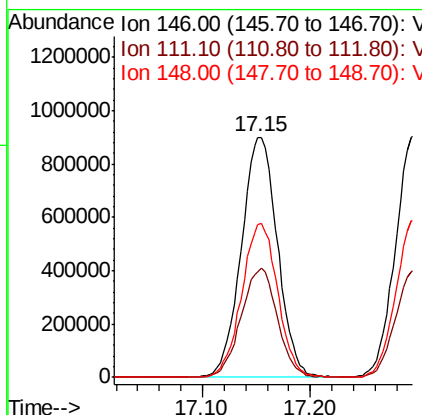
MSVOA_L

ClientSampleId :

VL0613ABS01

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#76

1,4-Dichlorobenzene

Concen: 10.159 ppbv

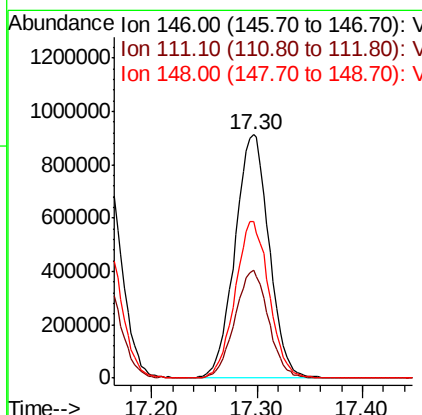
RT: 17.30 min Scan# 4466

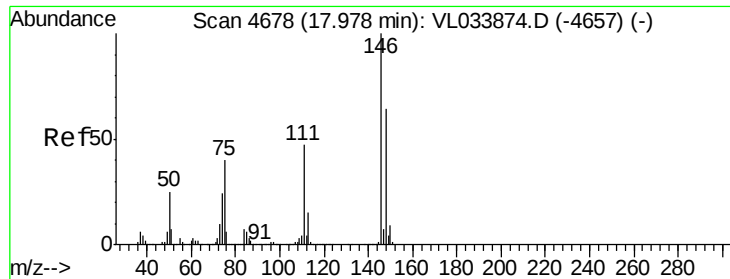
Delta R.T. 0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

Tgt Ion:	146	Resp:	2039804
Ion	Ratio	Lower	Upper
146	100		
111	44.0	22.1	66.5
148	64.4	32.4	97.0





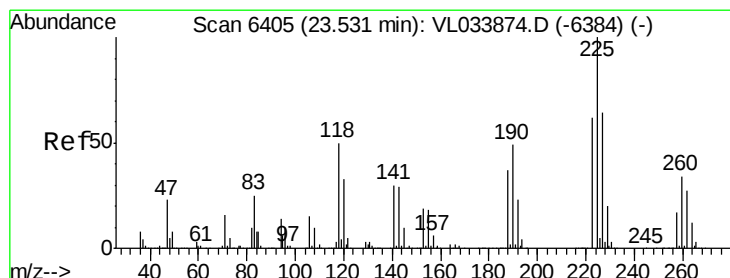
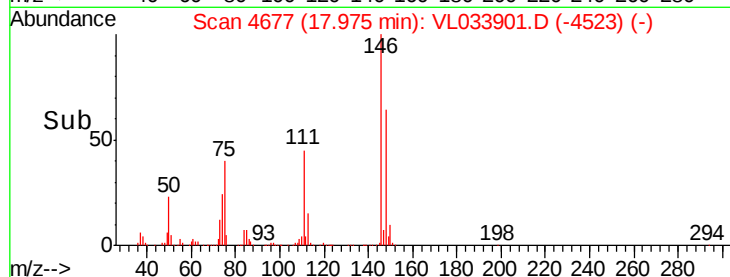
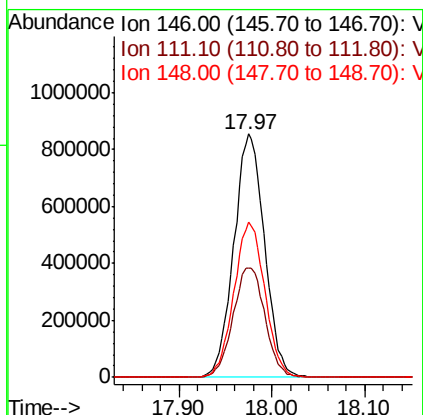
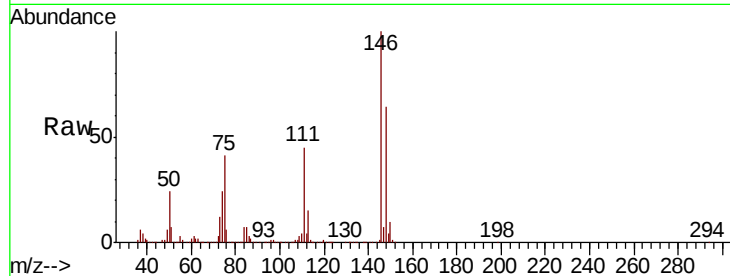
#77
 1,2-Dichlorobenzene
 Concen: 9.737 ppbv
 RT: 17.97 min Scan# 4677
 Delta R.T. -0.00 min
 Lab File: VL033901.D
 Acq: 13 Jun 2019 17:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0613ABS01

Tot Ion:146 Resp: 1964974
 Ion Ratio Lower Upper
 146 100
 111 46.7 23.4 70.0
 148 64.2 31.8 95.4

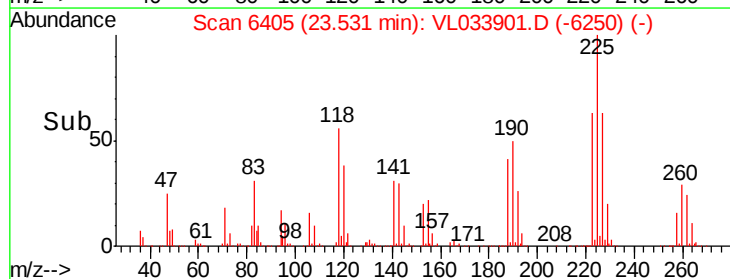
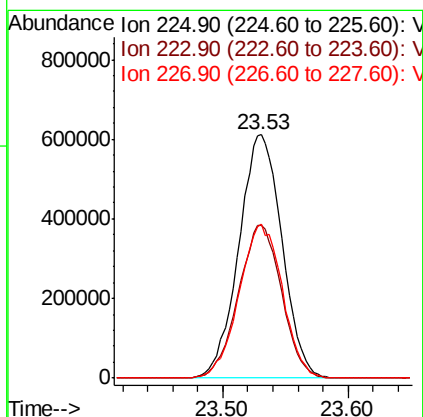
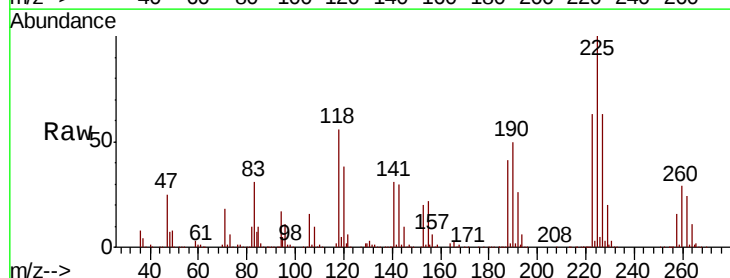
Manual Integrations
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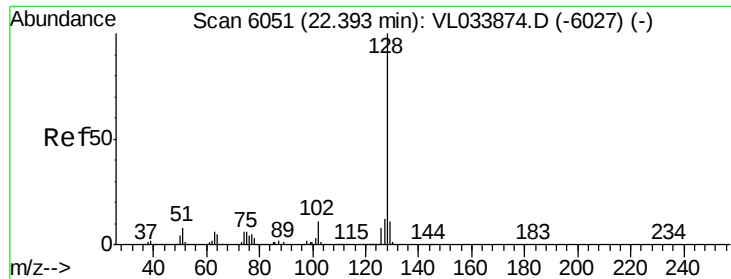
MMDadoda
 6/17/2019 12:37:04 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 9.270 ppbv
 RT: 23.53 min Scan# 6405
 Delta R.T. -0.00 min
 Lab File: VL033901.D
 Acq: 13 Jun 2019 17:11

Tgt Ion:225 Resp: 1461195
 Ion Ratio Lower Upper
 225 100
 223 63.0 50.8 76.2
 227 63.3 51.8 77.6





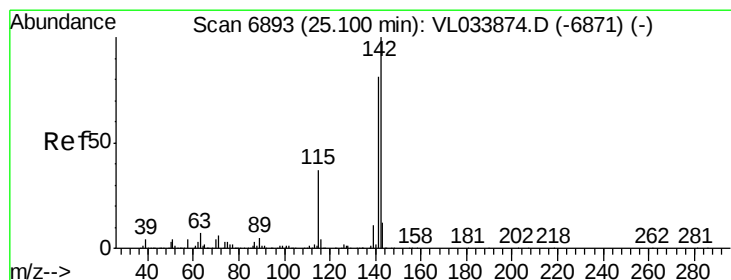
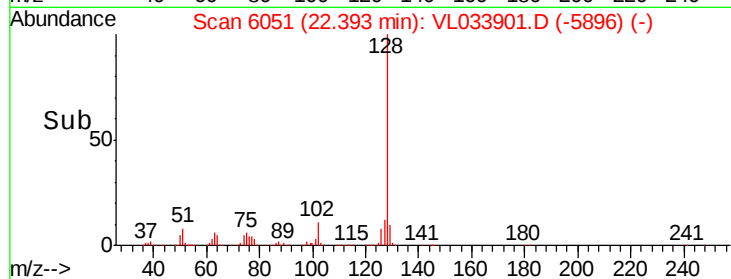
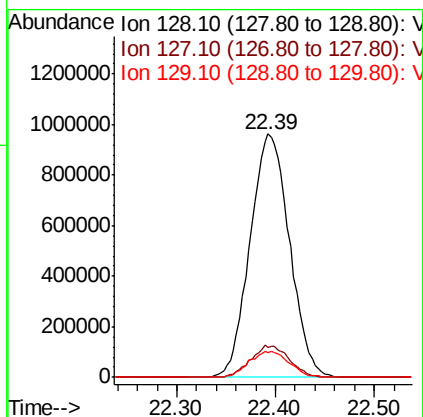
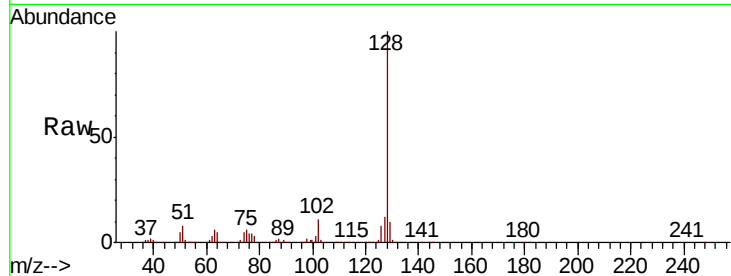
#79
Naphthalene
Concen: 9.508 ppbv
RT: 22.39 min Scan# 6051
Delta R.T. -0.00 min
Lab File: VL033901.D
Acq: 13 Jun 2019 17:11

Instrument :
MSVOA_L
ClientSampleId :
VL0613ABS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.1	9.7	14.5
129	10.1	8.6	12.8

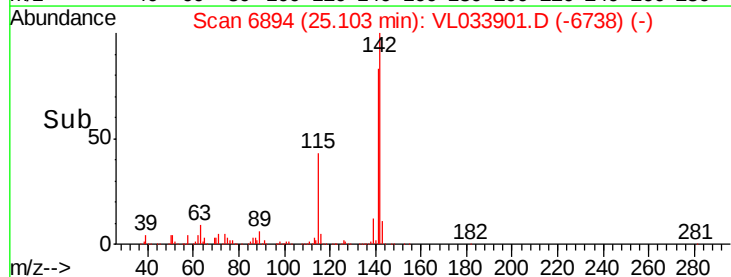
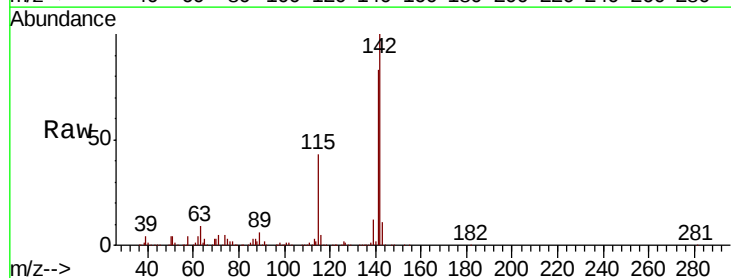
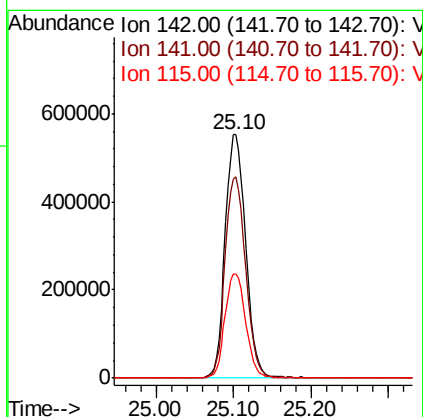
Manual Integrations
APPROVED

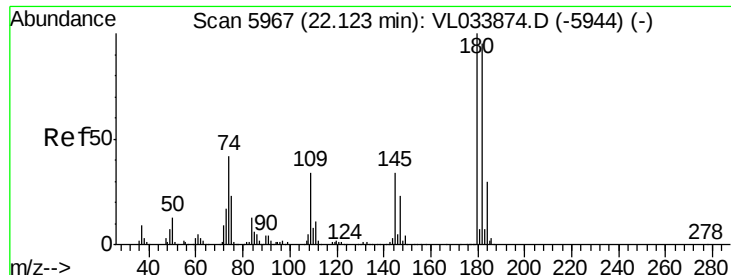
MMDadoda
6/17/2019 12:37:04 AM



#80
Naphthalene, 2-methyl-
Concen: 9.106 ppbv
RT: 25.10 min Scan# 6894
Delta R.T. 0.00 min
Lab File: VL033901.D
Acq: 13 Jun 2019 17:11

Tgt Ion	Ratio	Lower	Upper
142	100		
141	83.2	65.7	98.5
115	43.5	28.9	43.3





#81
 1,2,4-Trichlorobenzene
 Concen: 9.111 ppbv
 RT: 22.12 min Scan# 5966
 Delta R.T. -0.00 min
 Lab File: VL033901.D
 Acq: 13 Jun 2019 17:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0613ABS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.7	76.9	115.3
184	30.7	24.5	36.7

Manual Integrations
 APPROVED

MMDadoda
 6/17/2019 12:37:04 AM

