

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030819\
 Data File : VL033259.D
 Acq On : 8 Mar 2019 14:41
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

MMDadoda
 3/11/2019 10:10:14 AM

Quant Time: Mar 08 17:41:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030819AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 08 17:41:48 2019
 QLast Update : Fri Mar 08 16:12:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	948418	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2160536	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2180802	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1899831	11.48	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	114.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	100138	0.747	ppbv	95
3) Chlorodifluoromethane	3.02	51	59606	0.549	ppbv	100
4) Chloromethane	3.18	50	29127	0.521	ppbv	92
5) Vinyl Chloride	3.29	62	29266	0.467	ppbv	97
6) Bromomethane	3.51	94	19163m	0.535	ppbv	
7) Chloroethane	3.61	64	10282	0.491	ppbv	92
8) Dichlorotetrafluoroethane	3.22	85	78344	0.592	ppbv	98
9) Propene	3.04	41	25733	0.532	ppbv	99
10) Heptane	8.24	43	63831	0.485	ppbv	97
11) Trichlorofluoromethane	4.01	101	84162	0.535	ppbv	93
12) 1,1,2-Trichlorotrifluoroet	4.56	101	55231m	0.542	ppbv	
13) Ethanol	3.66	45	9373m	0.648	ppbv	
14) Bromoethene	3.79	108	21563	0.502	ppbv	98
15) Acetone	3.92	43	63587	0.521	ppbv	96
16) 1,3-Butadiene	3.36	39	24277	0.498	ppbv	94
17) tert-Butyl alcohol	4.39	59	10657m	0.536	ppbv	
18) 1,1-Dichloroethene	4.35	96	23035m	0.507	ppbv	
19) Isopropyl Alcohol	4.04	45	41741m	0.575	ppbv	
20) Methylene Chloride	4.41	84	27414	0.593	ppbv	95
21) Allyl Chloride	4.48	41	32985	0.484	ppbv	93
22) trans-1,2-Dichloroethene	4.96	96	25141m	0.542	ppbv	
23) Vinyl Acetate	5.16	43	80458	0.447	ppbv #	95
24) 1,1-Dichloroethane	5.09	63	65771	0.512	ppbv	98
25) Ethyl Acetate	5.78	43	112368	0.502	ppbv	99
26) Hexane	5.78	57	54789	0.524	ppbv	93
27) Carbon Disulfide	4.62	76	47133	0.467	ppbv #	87
28) Methyl tert-Butyl Ether	5.13	73	66141	0.458	ppbv	100
29) Chloroform	5.85	83	80901	0.497	ppbv	95
30) Cyclohexane	7.25	84	38146m	0.487	ppbv	
31) cis-1,2-Dichloroethene	5.64	61	46409	0.459	ppbv #	84
32) 1,1,1-Trichloroethane	6.62	97	74893	0.475	ppbv	96
34) 2-Butanone	5.34	43	70234	0.469	ppbv	98
35) Carbon Tetrachloride	7.13	117	73873m	0.452	ppbv	
36) Benzene	7.00	78	96611	0.476	ppbv	97
37) 1,2-Dichloroethane	6.41	62	66741m	0.529	ppbv	
38) Trichloroethene	7.96	130	38354m	0.501	ppbv	
39) 1,2-Dichloropropane	7.74	63	36347	0.459	ppbv	90
40) 1,4-Dioxane	7.99	88	14541m	0.495	ppbv	
41) Tetrahydrofuran	6.18	42	36908m	0.449	ppbv	
42) Bromodichloromethane	7.91	83	79995	0.448	ppbv	98
43) Methyl Methacrylate	8.14	69	34407	0.419	ppbv	97

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Manual Integrations
 APPROVED

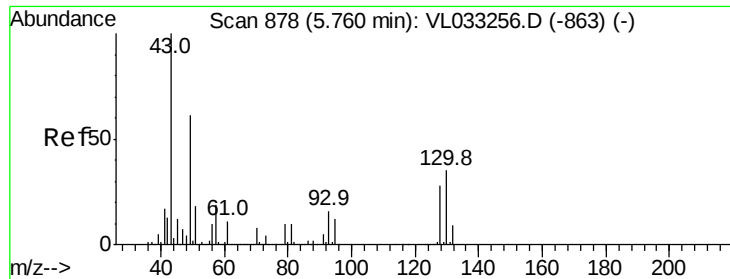
MMDadoda
 3/11/2019 10:10:14 AM

Quant Time: Mar 08 17:41:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030819AIR.M
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.99	57	166440	0.464	ppbv	98
45) t-1,3-Dichloropropene	9.41	75	37541	0.378	ppbv	91
46) cis-1,3-Dichloropropene	8.83	75	46342	0.391	ppbv #	91
47) 1,1,2-Trichloroethane	9.61	97	40226	0.472	ppbv	99
48) Dibromochloromethane	10.45	129	59976m	0.435	ppbv	
49) Bromoform	13.20	173	59078	0.536	ppbv	99
50) 4-Methyl-2-Pentanone	8.89	43	94170	0.425	ppbv	100
51) 2-Hexanone	10.30	43	65646	0.396	ppbv #	99
52) Tetrachloroethene	11.37	164	35265	0.467	ppbv	96
53) Toluene	9.95	91	98355	0.420	ppbv	98
54) 1,2-Dibromoethane	10.76	107	58284	0.450	ppbv	95
56) 1,1,1,2-Tetrachloroethane	12.28	131	48048m	0.508	ppbv	
57) Chlorobenzene	12.30	112	85542m	0.504	ppbv	
58) Ethyl Benzene	12.86	91	138026m	0.458	ppbv	
59) m/p-Xylene	13.14	91	320823m	1.248	ppbv	
60) o-Xylene	13.85	91	155014m	0.632	ppbv	
61) Styrene	13.68	104	94529	0.548	ppbv	96
62) Isopropylbenzene	14.82	105	187539m	0.549	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.83	83	113685	0.652	ppbv	99
64) n-propylbenzene	15.72	120	42770	0.505	ppbv	88
65) tert-Butylbenzene	16.90	119	153338	0.526	ppbv	96
66) Benzyl Chloride	17.15	91	36090	0.320	ppbv	97
67) sec-Butylbenzene	17.46	105	216440m	0.520	ppbv	
69) p-Isopropyltoluene	17.81	119	164972	0.491	ppbv	97
70) n-Butylbenzene	18.71	91	186034	0.505	ppbv	97
71) 2-Chlorotoluene	15.61	91	132644	0.508	ppbv	100
72) 4-Ethyltoluene	16.00	105	134011	0.500	ppbv	97
73) 1,3,5-Trimethylbenzene	16.15	105	131317	0.511	ppbv	98
74) 1,2,4-Trimethylbenzene	16.92	105	140934	0.522	ppbv	93
75) 1,3-Dichlorobenzene	17.16	146	85583	0.541	ppbv	95
76) 1,4-Dichlorobenzene	17.30	146	82357m	0.526	ppbv	
77) 1,2-Dichlorobenzene	17.99	146	78976	0.515	ppbv	95
78) Hexachloro-1,3-Butadiene	23.54	225	64276	0.592	ppbv	99
79) Naphthalene	22.41	128	107080	0.324	ppbv	97
80) Naphthalene, 2-methyl-	25.12	142	9454	0.096	ppbv	95
81) 1,2,4-Trichlorobenzene	22.14	180	67623m	0.407	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. 0.00 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 49 Resp: 948418

Ion Ratio Lower Upper

49 100

128 45.5 22.5 67.5

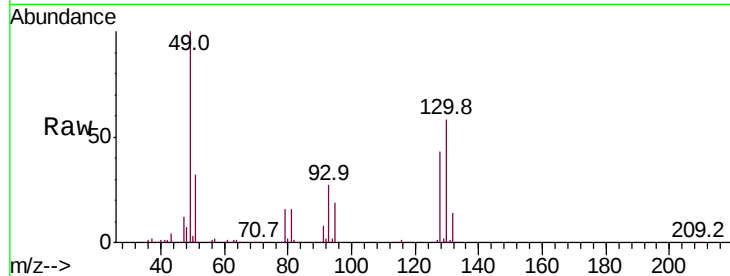
130 59.6 29.1 87.4

Manual Integrations

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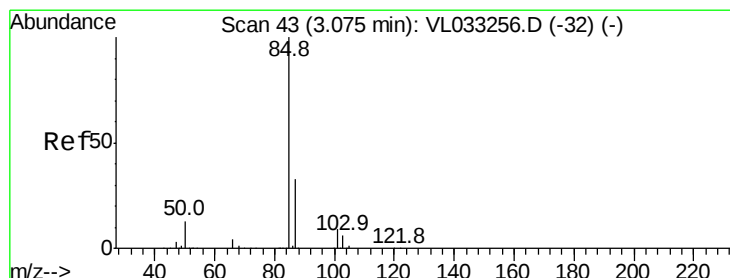
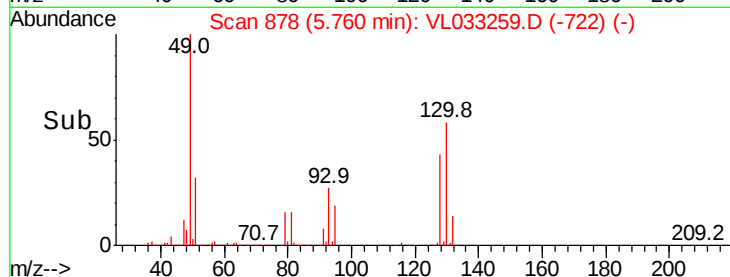
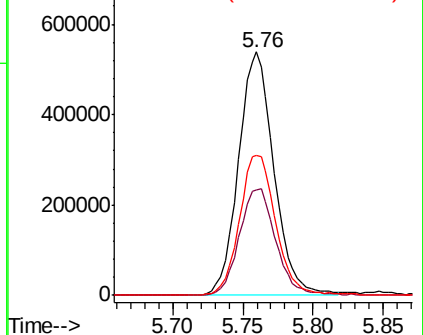
3/11/2019 10:10:14 AM



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: 0.747 ppbv

RT: 3.08 min Scan# 44

Delta R.T. 0.00 min

Lab File: VL033259.D

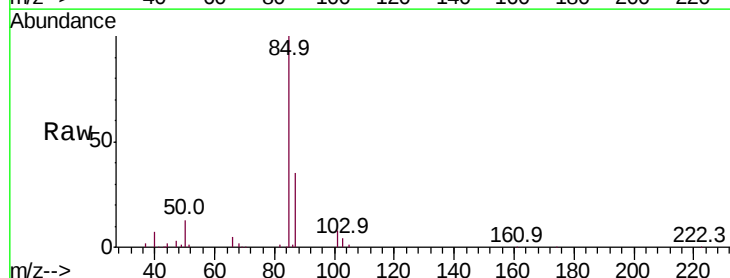
Acq: 8 Mar 2019 14:41

Tgt Ion: 85 Resp: 100138

Ion Ratio Lower Upper

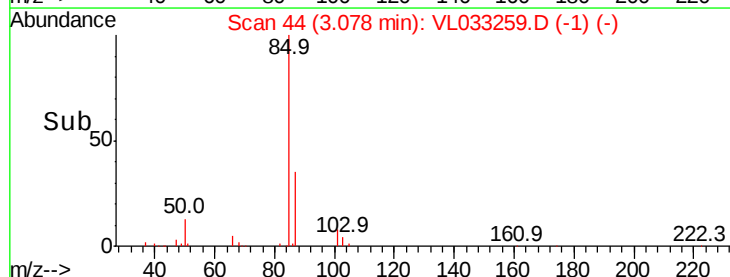
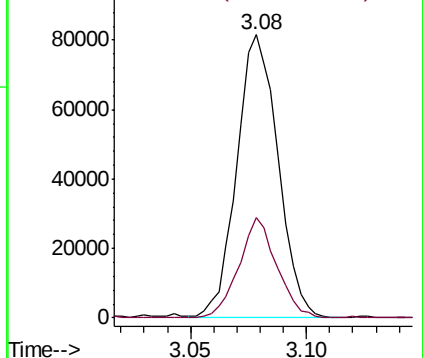
85 100

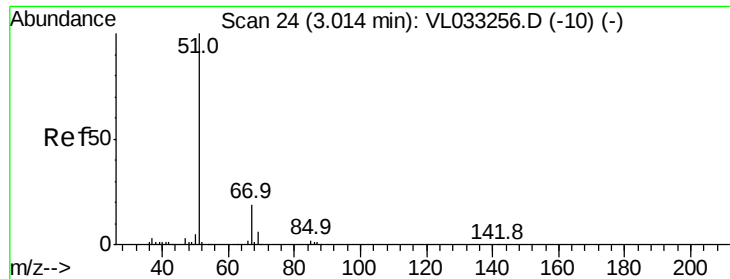
87 35.4 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.549 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Tot Ion: 51 Resp: 59606

Ion Ratio Lower Upper

51 100

67 18.6 15.0 22.6

Instrument :

MSVOA_L

ClientSampleId :

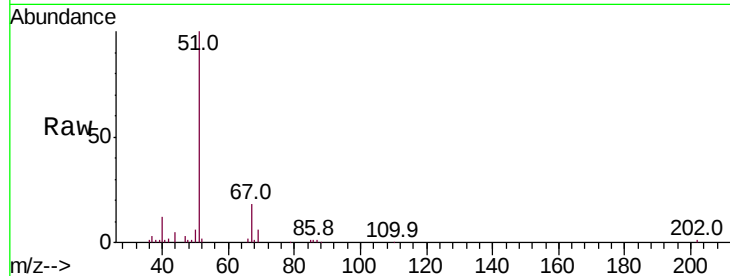
VSTDIC0.5

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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

3.02

50000

40000

30000

20000

10000

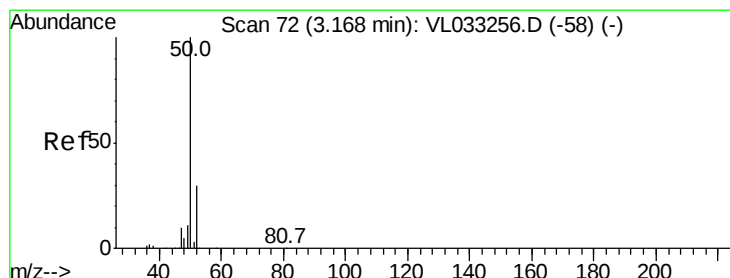
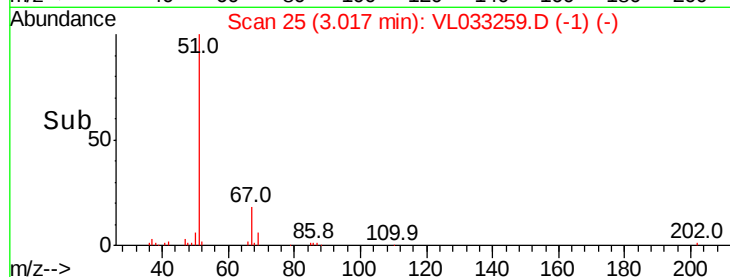
0

Time-->

2.90

3.00

3.10



#4

Chloromethane

Concen: 0.521 ppbv

RT: 3.18 min Scan# 75

Delta R.T. 0.01 min

Lab File: VL033259.D

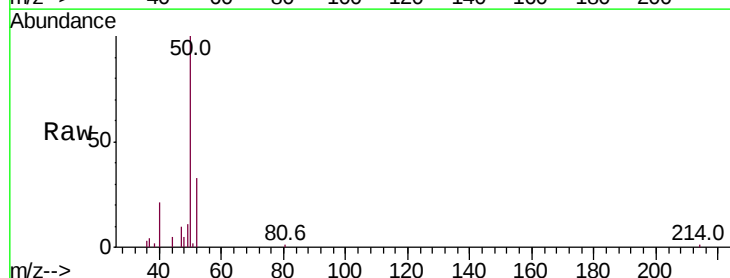
Acq: 8 Mar 2019 14:41

Tgt Ion: 50 Resp: 29127

Ion Ratio Lower Upper

50 100

52 34.4 24.2 36.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.18

25000

20000

15000

10000

5000

0

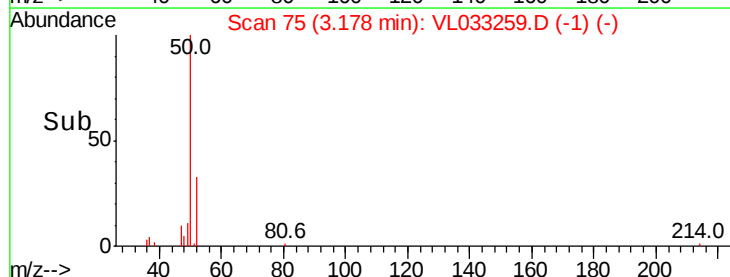
Time-->

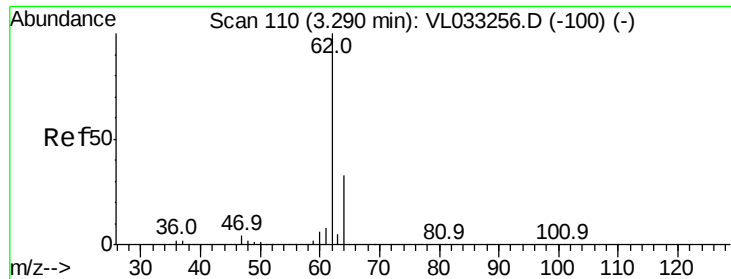
3.14

3.16

3.18

3.20





#5

Vinyl Chloride

Concen: 0.467 ppbv

RT: 3.29 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 62 Resp: 29266

Ion Ratio Lower Upper

62 100

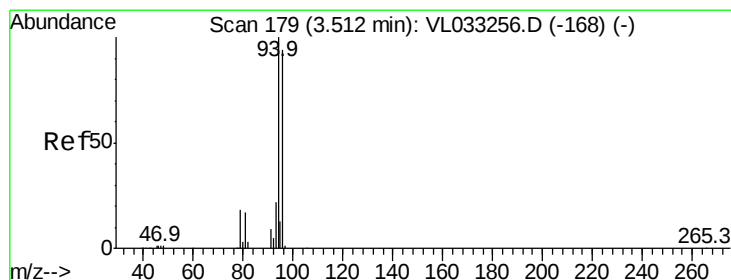
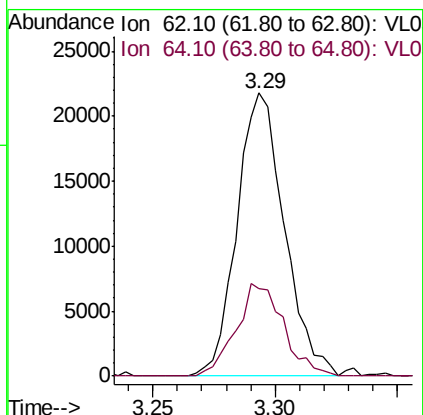
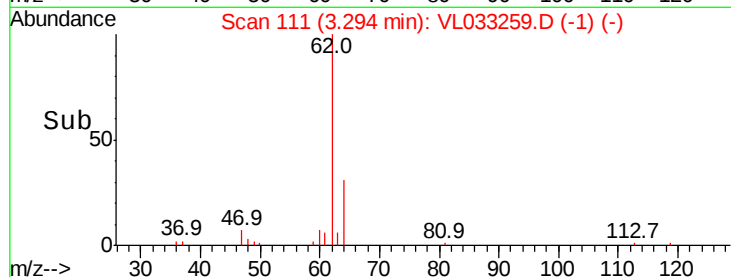
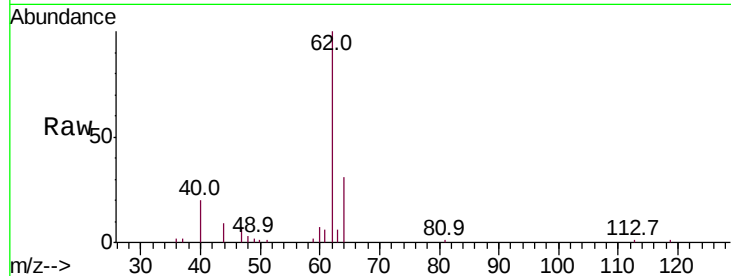
64 31.1 26.4 39.6

Manual Integrations

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#6

Bromomethane

Concen: 0.535 ppbv m

RT: 3.51 min Scan# 179

Delta R.T. 0.00 min

Lab File: VL033259.D

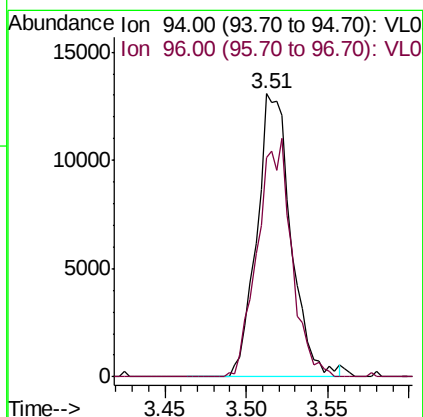
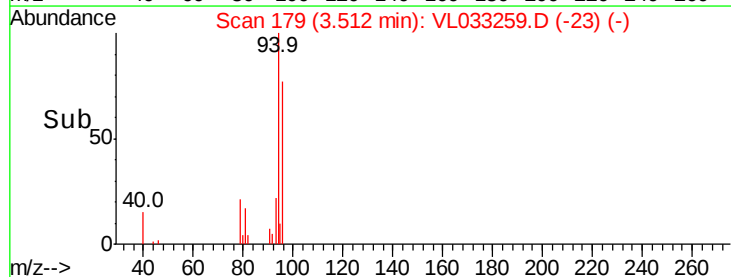
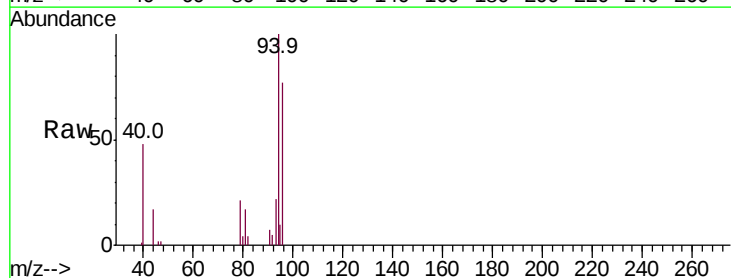
Acq: 8 Mar 2019 14:41

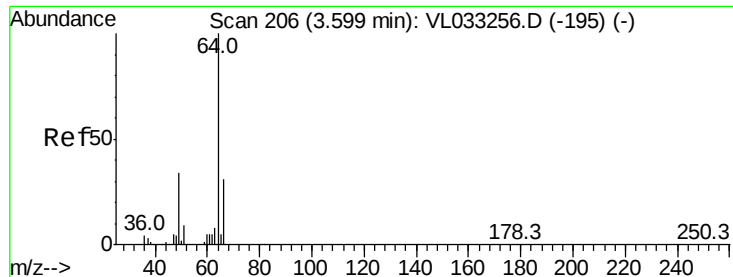
Tgt Ion: 94 Resp: 19163

Ion Ratio Lower Upper

94 100

96 77.4 75.3 112.9





#7

Chloroethane

Concen: 0.491 ppbv

RT: 3.61 min Scan# 208

Delta R.T. 0.01 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 64 Resp: 10282

Ion Ratio Lower Upper

64 100

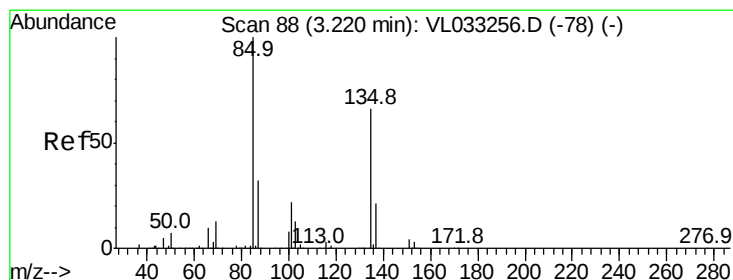
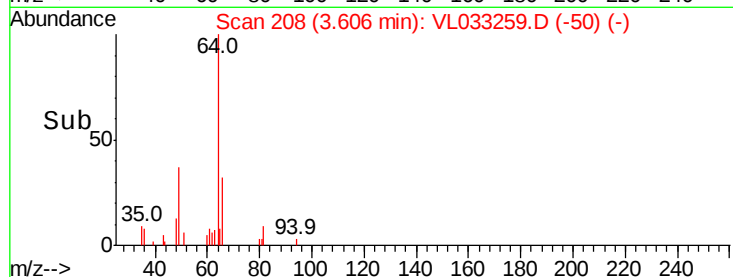
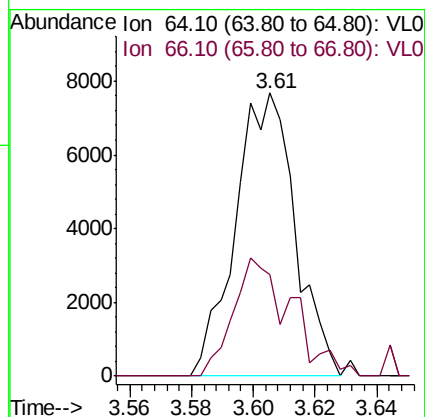
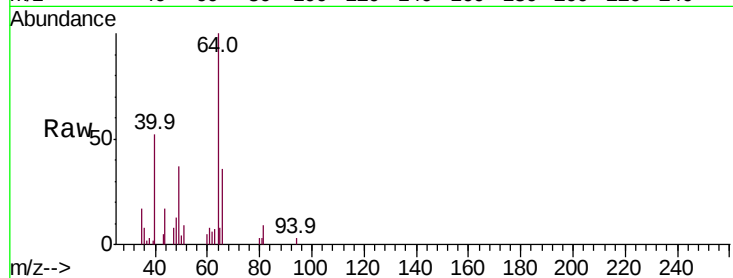
66 36.0 25.2 37.8

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 0.592 ppbv

RT: 3.22 min Scan# 88

Delta R.T. 0.00 min

Lab File: VL033259.D

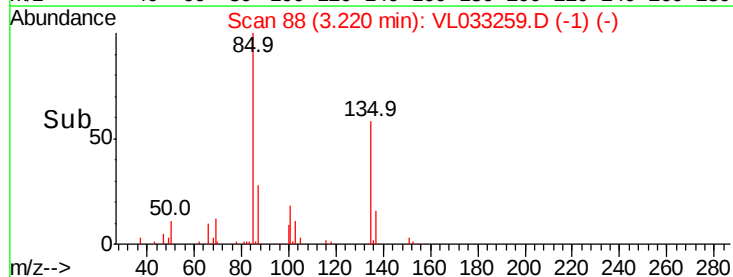
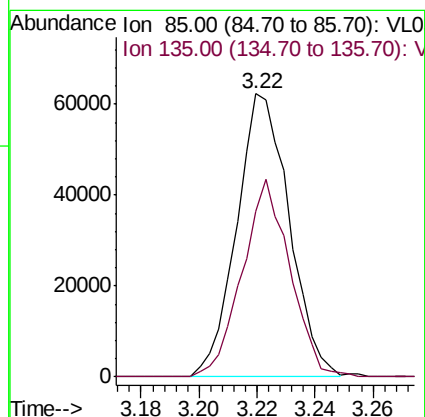
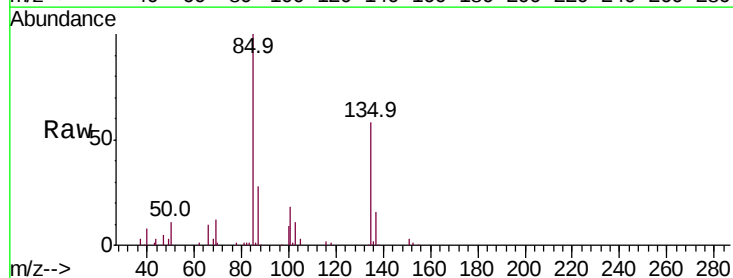
Acq: 8 Mar 2019 14:41

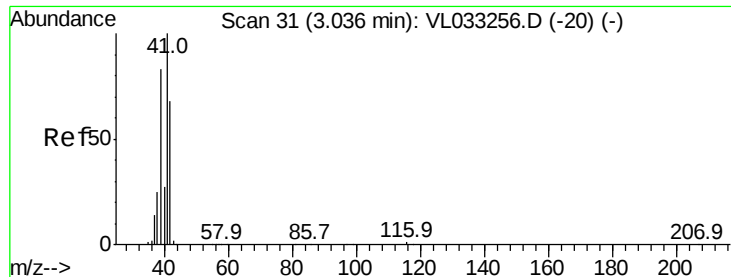
Tgt Ion: 85 Resp: 78344

Ion Ratio Lower Upper

85 100

135 63.5 52.3 78.5





#9

Propene

Concen: 0.532 ppbv

RT: 3.04 min Scan# 33

Delta R.T. 0.01 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 41 Resp: 25733

Ion Ratio Lower Upper

41 100

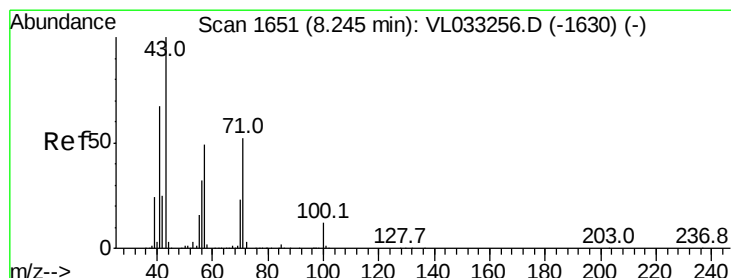
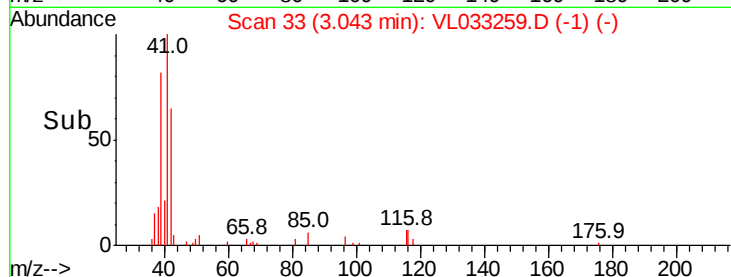
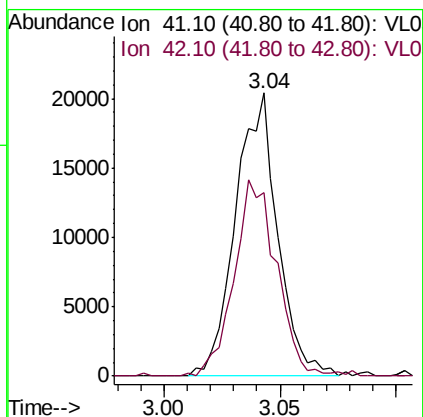
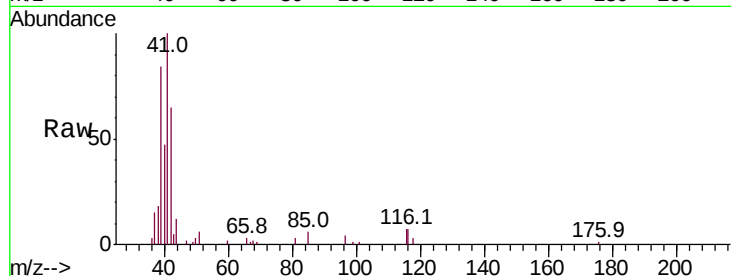
42 70.0 55.2 82.8

Manual Integrations

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#10

Heptane

Concen: 0.485 ppbv

RT: 8.24 min Scan# 1650

Delta R.T. -0.00 min

Lab File: VL033259.D

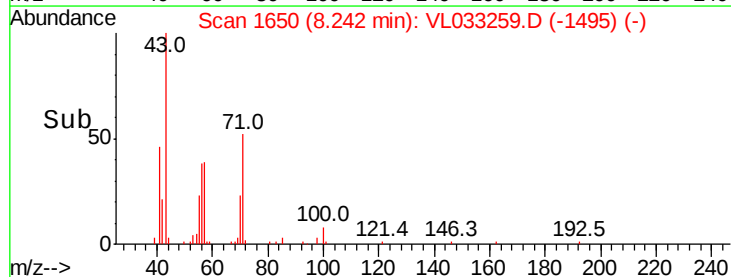
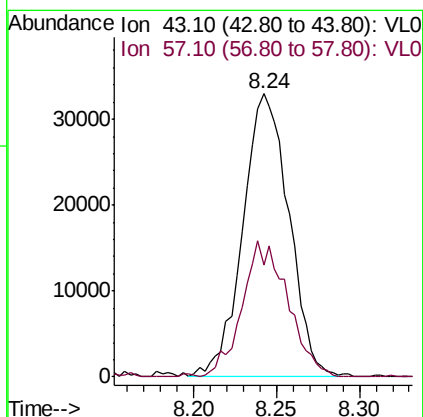
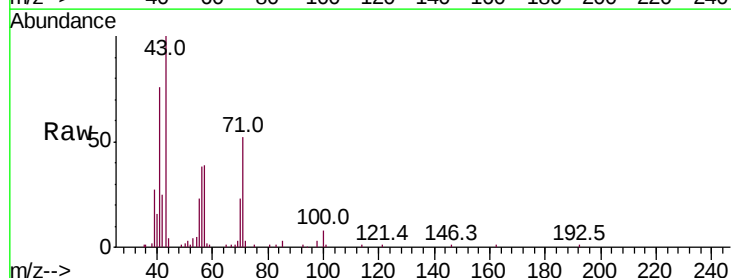
Acq: 8 Mar 2019 14:41

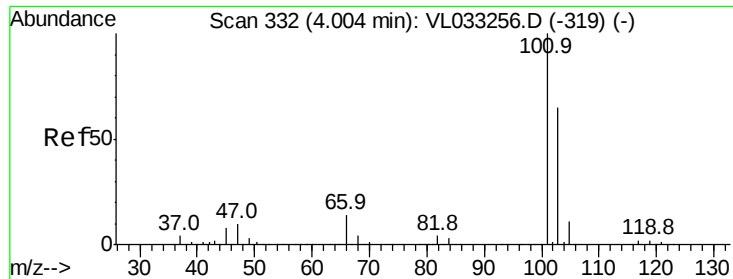
Tgt Ion: 43 Resp: 63831

Ion Ratio Lower Upper

43 100

57 47.7 40.0 60.0





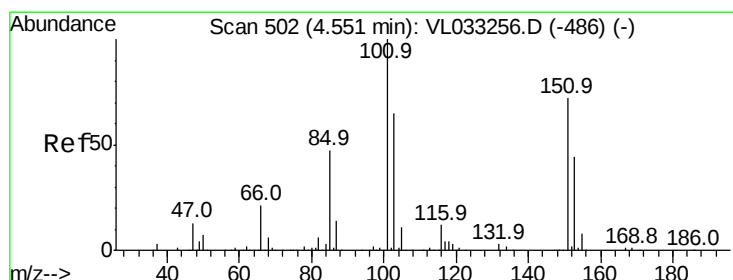
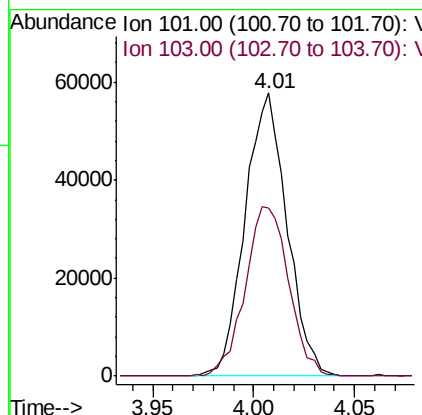
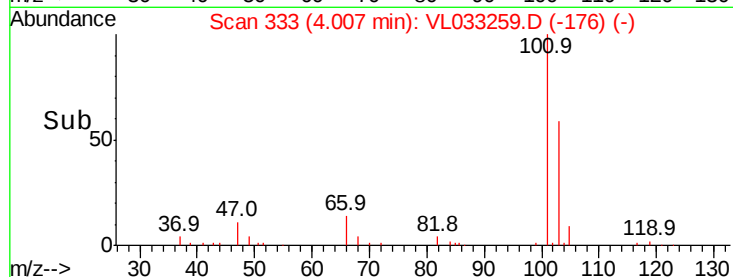
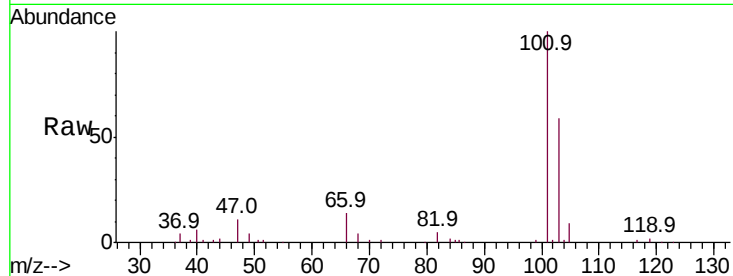
#11
 Trichlorofluoromethane
 Concen: 0.535 ppbv
 RT: 4.01 min Scan# 333
 Delta R.T. 0.00 min
 Lab File: VL033259.D
 Acq: 8 Mar 2019 14:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion:101 Resp: 84162
 Ion Ratio Lower Upper
 101 100
 103 59.4 51.9 77.9

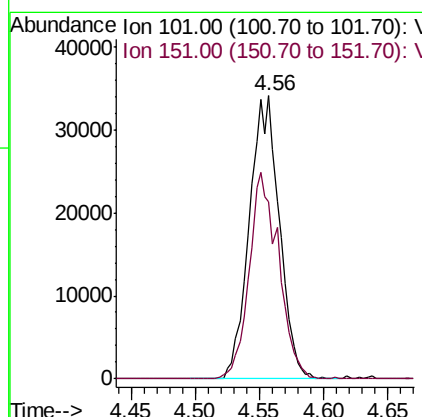
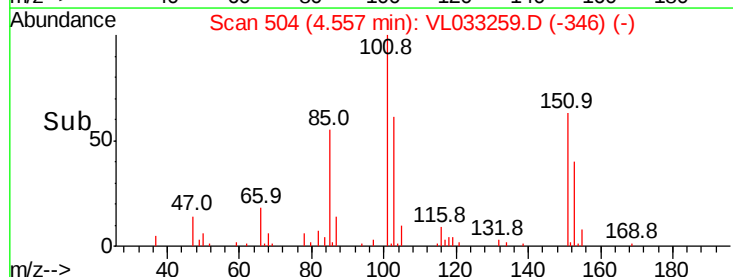
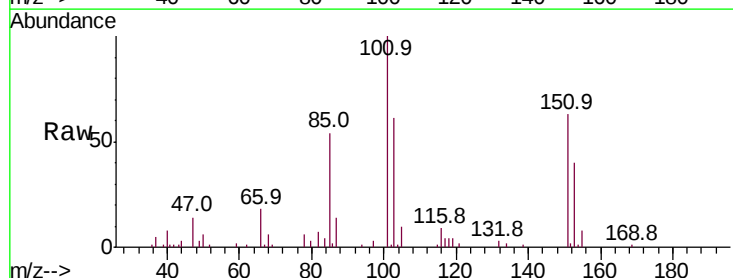
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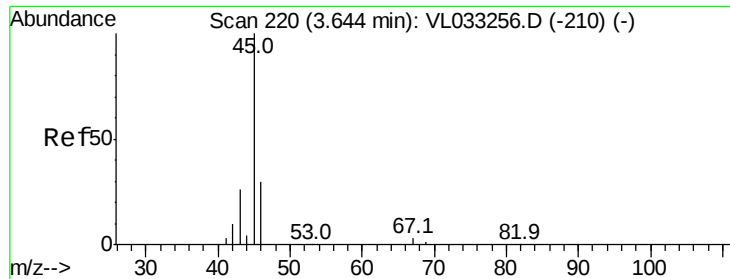
MMDadoda
 3/11/2019 10:10:14 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.542 ppbv m
 RT: 4.56 min Scan# 504
 Delta R.T. 0.01 min
 Lab File: VL033259.D
 Acq: 8 Mar 2019 14:41

Tgt Ion:101 Resp: 55231
 Ion Ratio Lower Upper
 101 100
 151 71.6 57.2 85.8





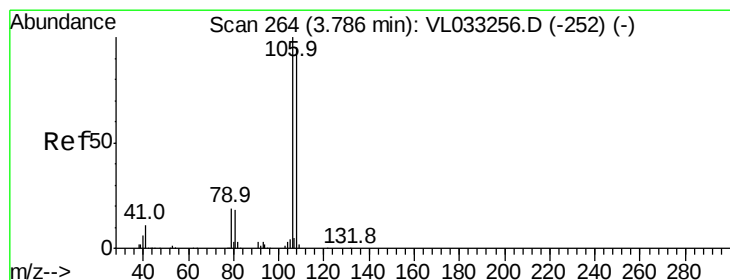
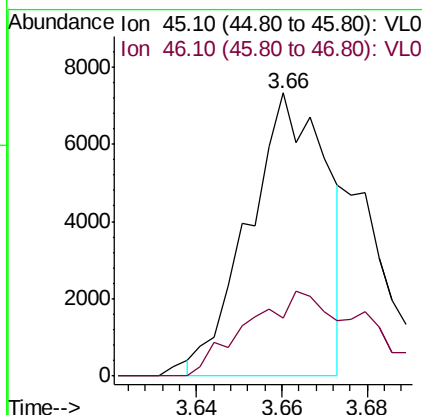
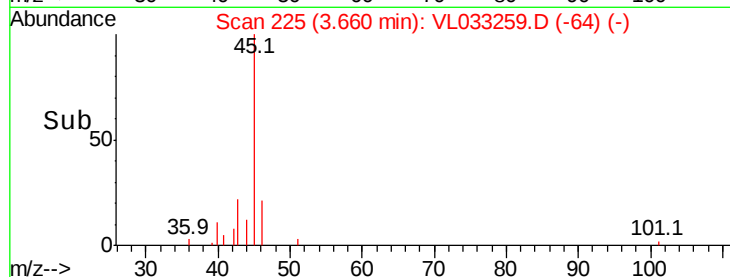
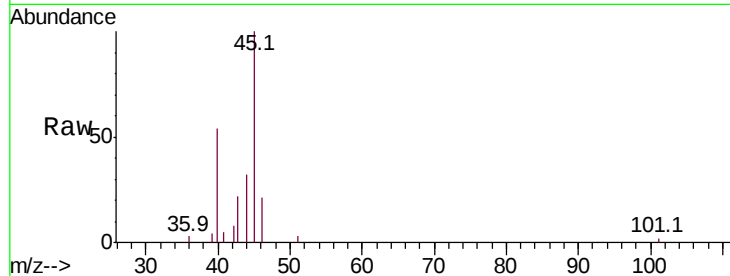
#13
Ethanol
Concen: 0.648 ppbv m
RT: 3.66 min Scan# 225
Delta R.T. 0.02 min
Lab File: VL033259.D
Acq: 8 Mar 2019 14:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion: 45 Resp: 9373
Ion Ratio Lower Upper
45 100
46 46.9 14.9 59.7

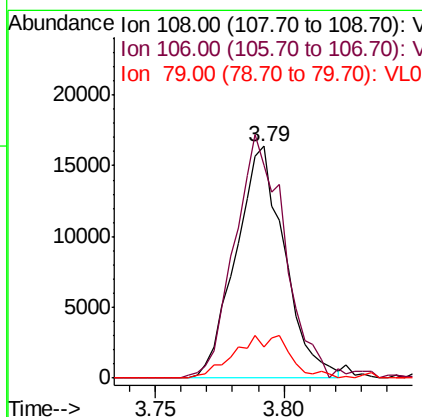
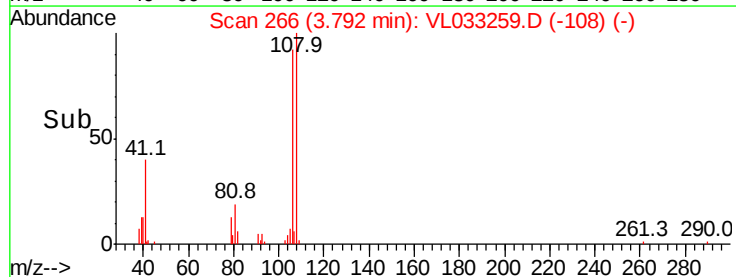
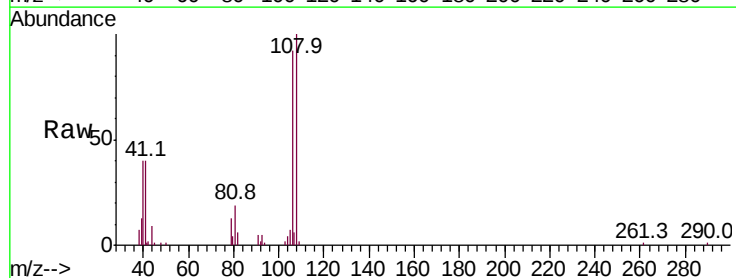
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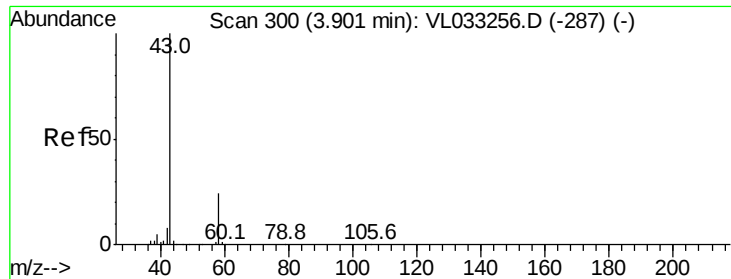
MMDadoda
3/11/2019 10:10:14 AM



#14
Bromoethene
Concen: 0.502 ppbv
RT: 3.79 min Scan# 266
Delta R.T. 0.01 min
Lab File: VL033259.D
Acq: 8 Mar 2019 14:41

Tgt Ion: 108 Resp: 21563
Ion Ratio Lower Upper
108 100
106 110.0 86.9 130.3
79 21.8 15.8 23.6





#15

Acetone

Concen: 0.521 ppbv

RT: 3.92 min Scan# 305

Delta R.T. 0.02 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 43 Resp: 63587

Ion Ratio Lower Upper

43 100

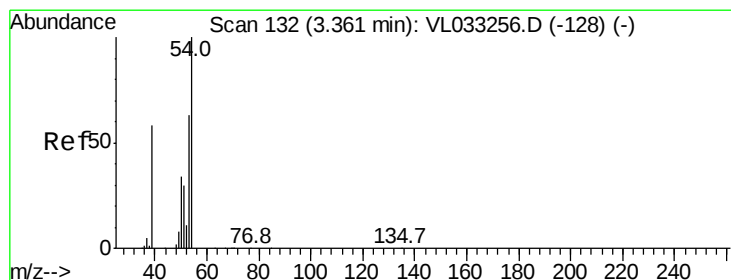
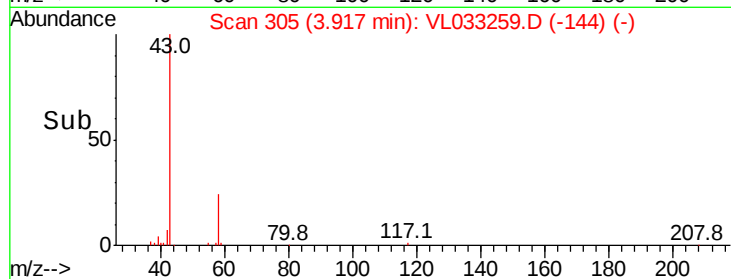
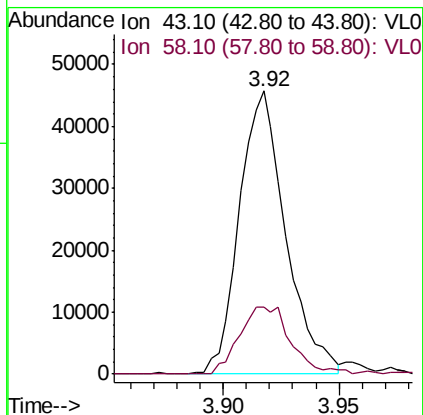
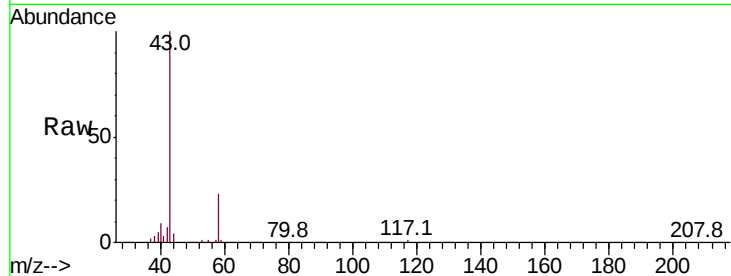
58 27.1 20.2 30.2

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#16

1,3-Butadiene

Concen: 0.498 ppbv

RT: 3.36 min Scan# 133

Delta R.T. 0.00 min

Lab File: VL033259.D

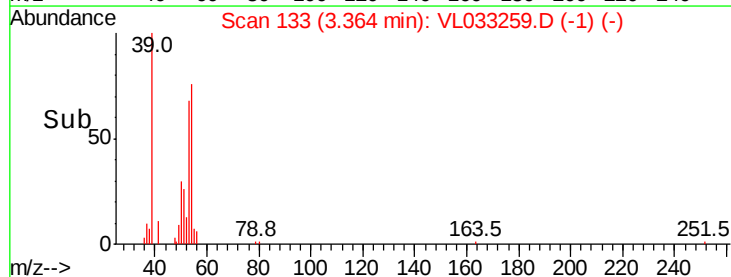
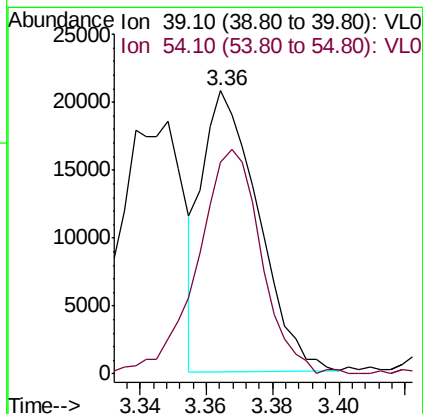
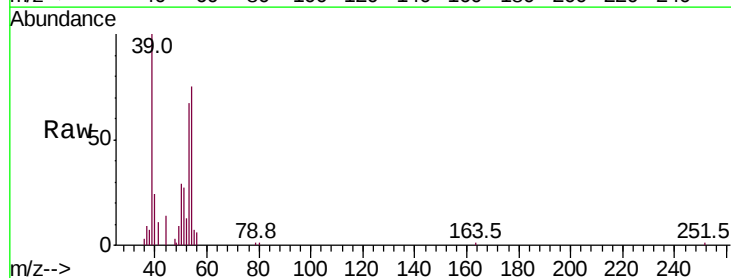
Acq: 8 Mar 2019 14:41

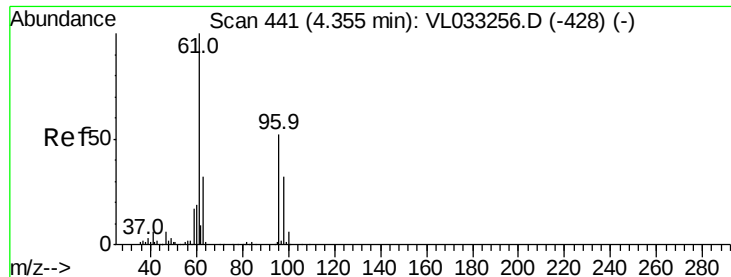
Tgt Ion: 39 Resp: 24277

Ion Ratio Lower Upper

39 100

54 91.3 68.6 103.0





#17

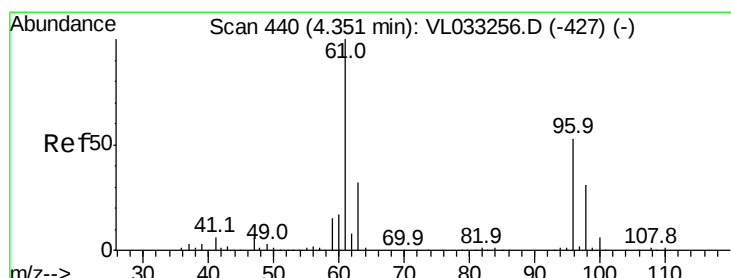
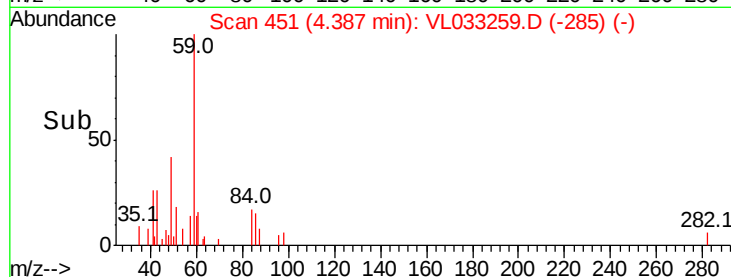
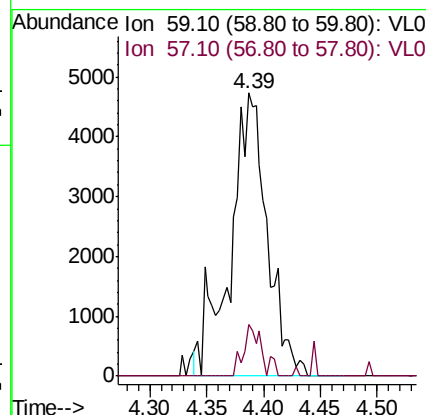
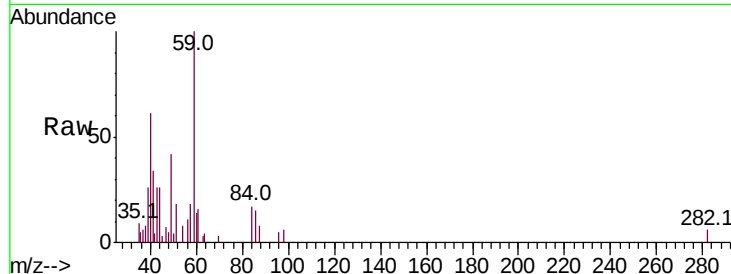
tert-Butyl alcohol
Concen: 0.536 ppbv m
RT: 4.39 min Scan# 451
Delta R.T. 0.03 min
Lab File: VL033259.D
Acq: 8 Mar 2019 14:41

Instrument :
MSVOA_L
ClientSampled :
VSTDIC0.5

Tot Ion: 59 Resp: 10657
Ion Ratio Lower Upper
59 100
57 0.0 7.2 10.8#

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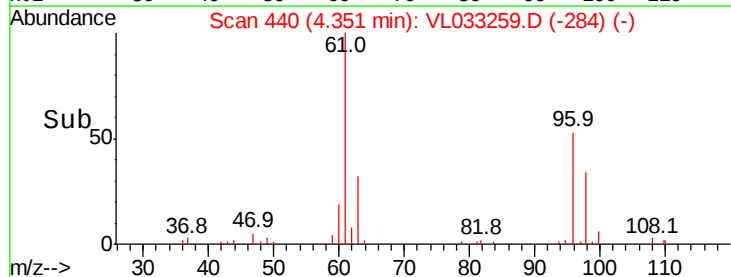
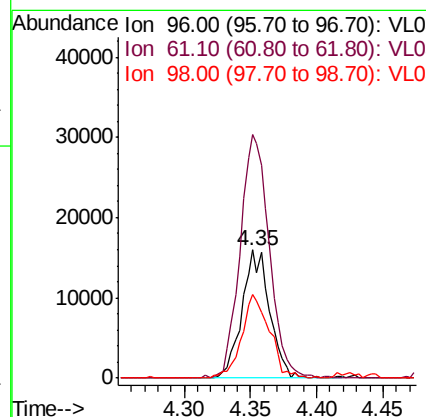
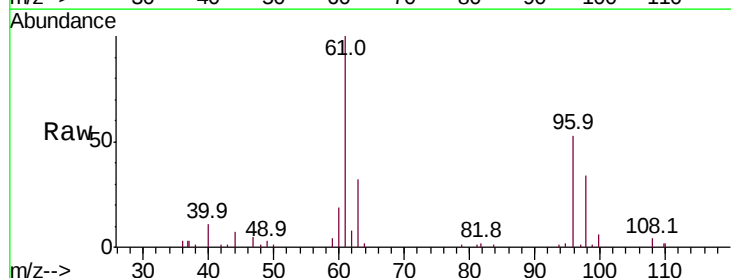
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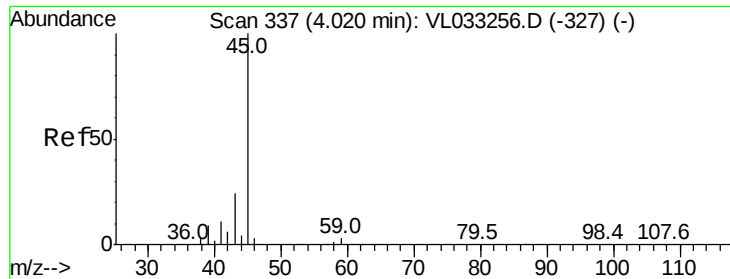


#18

1,1-Dichloroethene
Concen: 0.507 ppbv m
RT: 4.35 min Scan# 440
Delta R.T. 0.00 min
Lab File: VL033259.D
Acq: 8 Mar 2019 14:41

Tgt Ion: 96 Resp: 23035
Ion Ratio Lower Upper
96 100
61 190.0 150.6 226.0
98 65.0 47.0 70.4





#19

Isopropyl Alcohol

Concen: 0.575 ppbv m

RT: 4.04 min Scan# 343

Delta R.T. 0.02 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 45 Resp: 41741

Ion Ratio Lower Upper

45 100

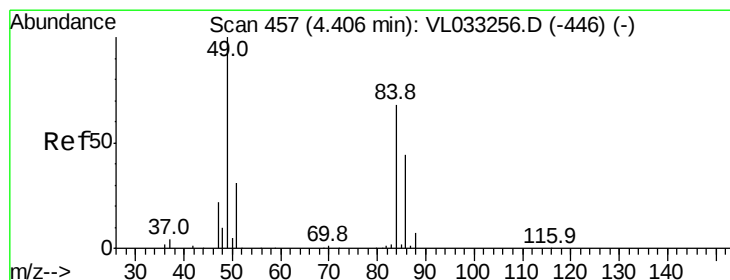
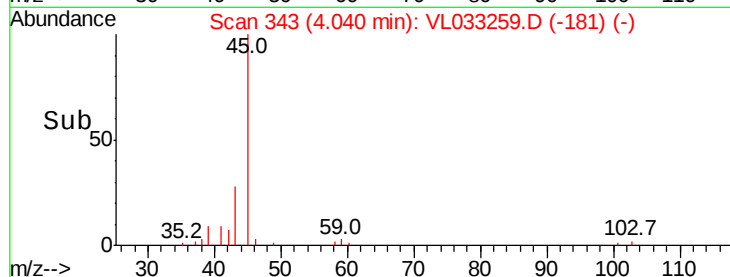
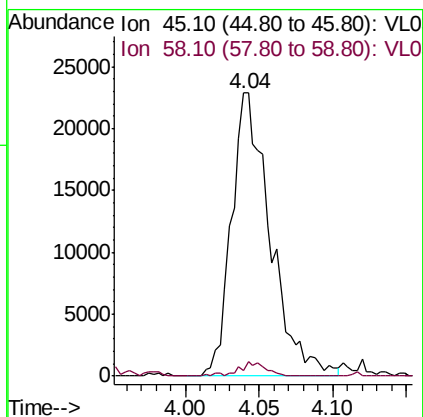
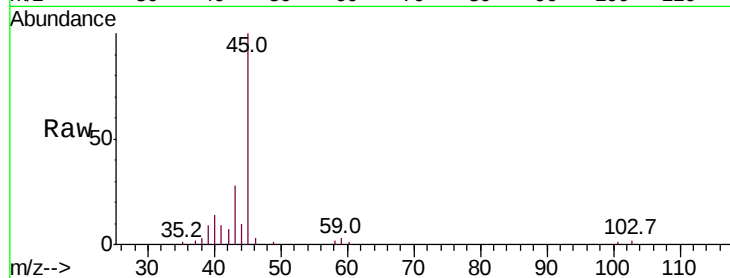
58 3.4 1.5 2.3#

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#20

Methylene Chloride

Concen: 0.593 ppbv

RT: 4.41 min Scan# 457

Delta R.T. 0.00 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Tgt Ion: 84 Resp: 27414

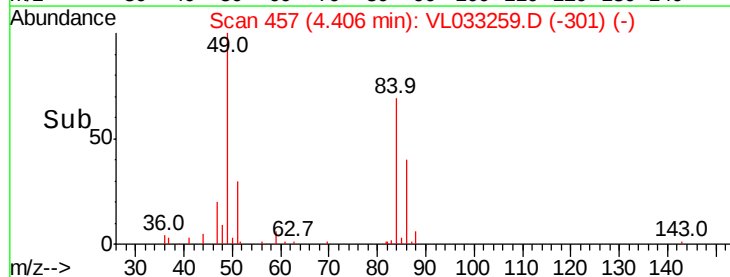
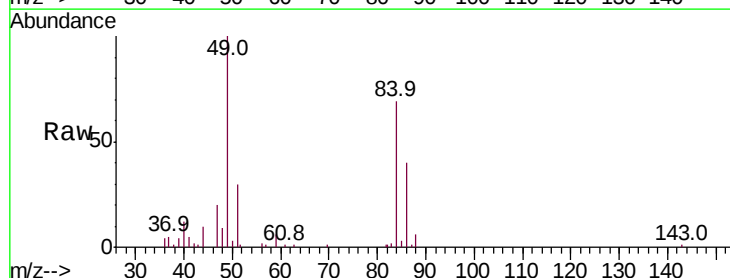
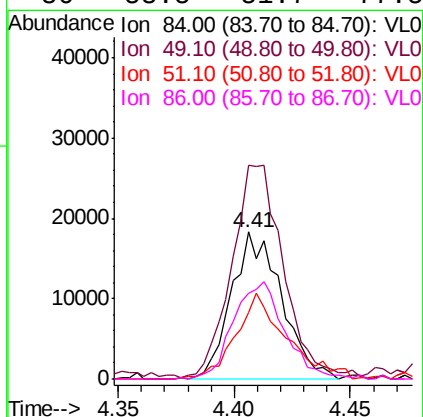
Ion Ratio Lower Upper

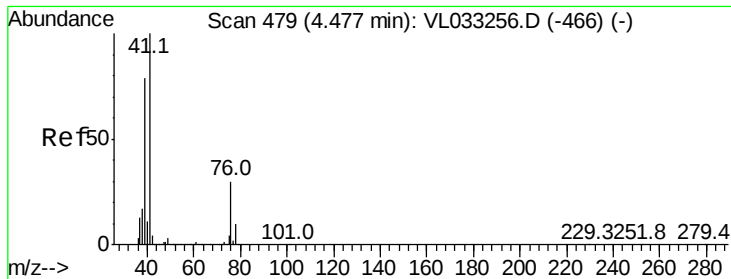
84 100

49 142.6 117.8 176.6

51 43.6 36.9 55.3

86 58.5 51.7 77.5





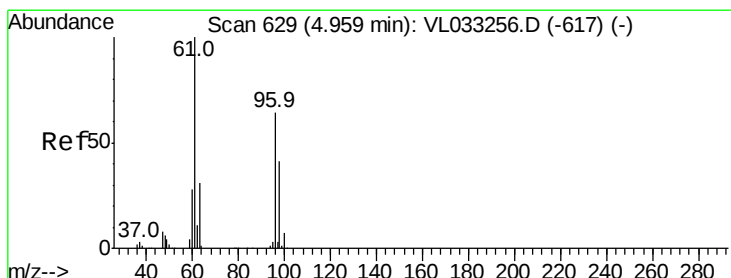
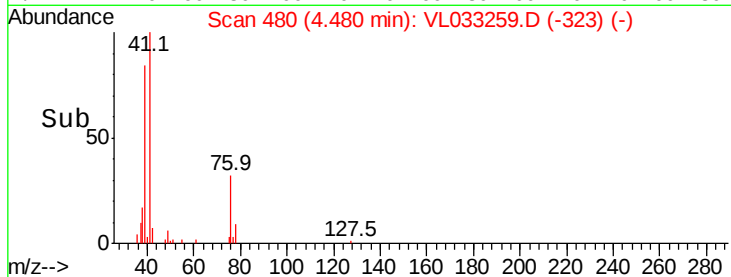
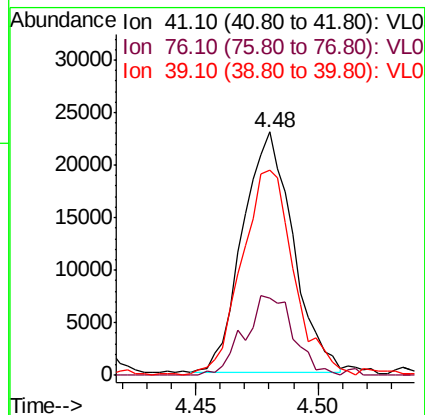
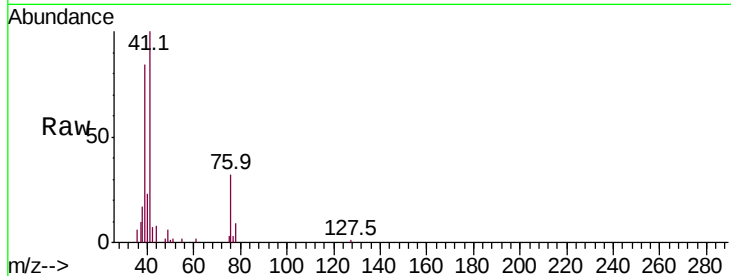
#21
Allvl Chloride
Concen: 0.484 ppbv
RT: 4.48 min Scan# 480
Delta R.T. 0.00 min
Lab File: VL033259.D
Acq: 8 Mar 2019 14:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
41	100	32985		
76	32.5		24.5	36.7
39	89.1		65.3	97.9

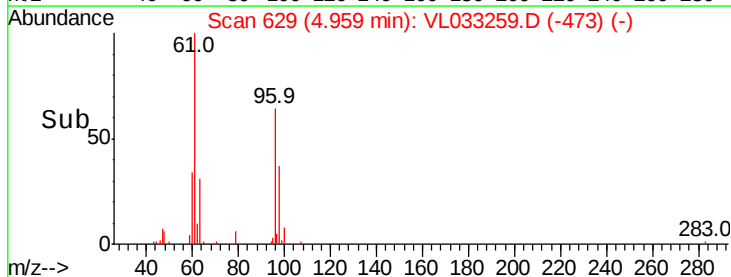
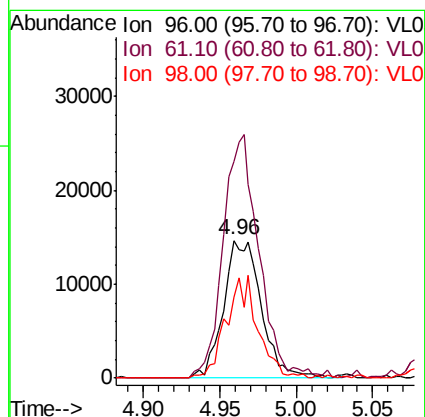
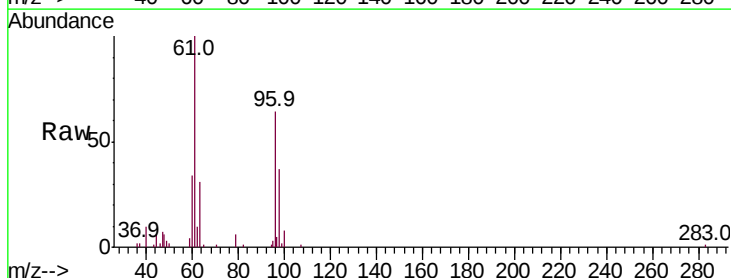
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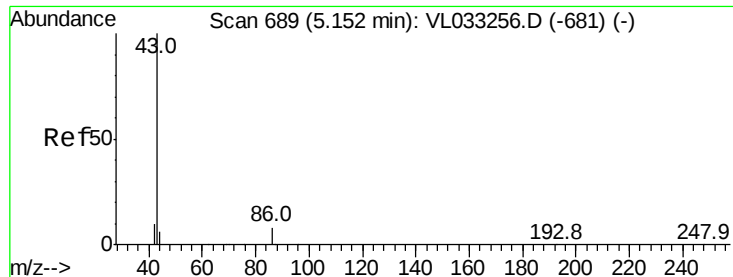
MMDadoda
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#22
trans-1,2-Dichloroethene
Concen: 0.542 ppbv m
RT: 4.96 min Scan# 629
Delta R.T. 0.00 min
Lab File: VL033259.D
Acq: 8 Mar 2019 14:41

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	25141		
61	156.8		125.7	188.5
98	58.6		52.1	78.1





#23

Vinyl Acetate

Concen: 0.447 ppbv

RT: 5.16 min Scan# 690

Delta R.T. 0.00 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Instrument :

MSVOA_L

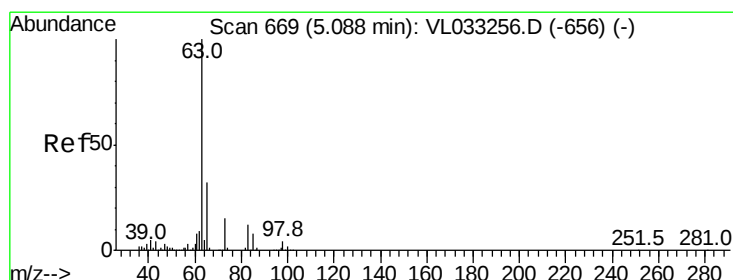
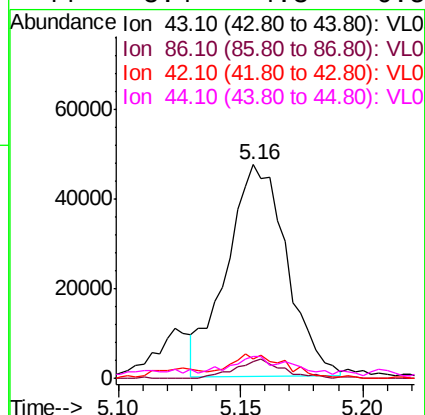
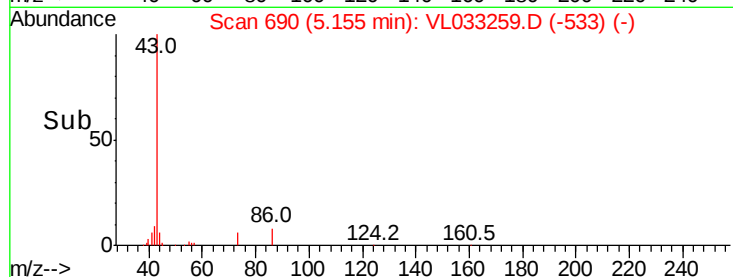
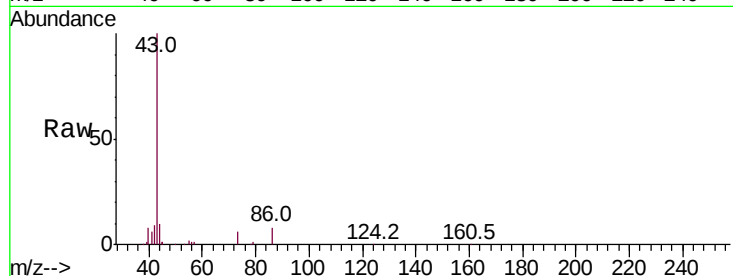
ClientSampleId :

VSTDIC0.5

Tot Ion	43	Resp	80458
Ion Ratio	Lower	Upper	
43	100		
86	8.4	5.6	8.4
42	8.9	8.1	12.1
44	8.4	4.3	6.5#

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#24

1,1-Dichloroethane

Concen: 0.512 ppbv

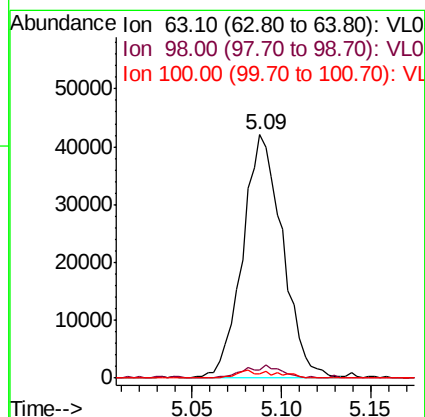
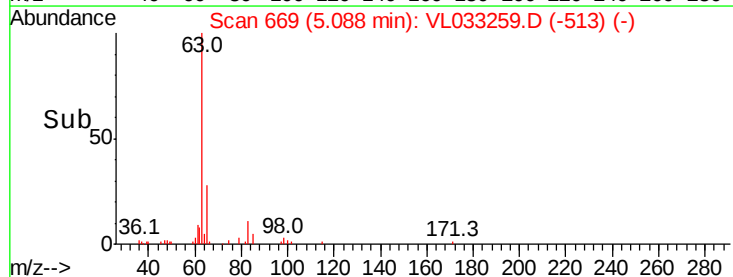
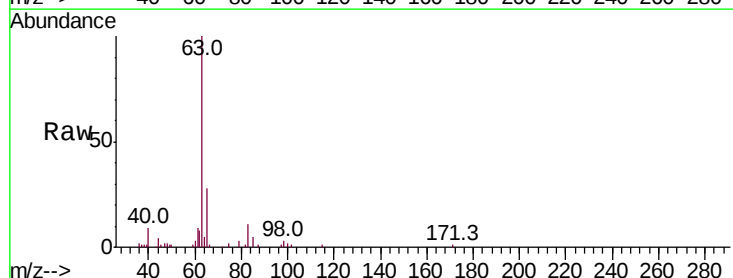
RT: 5.09 min Scan# 669

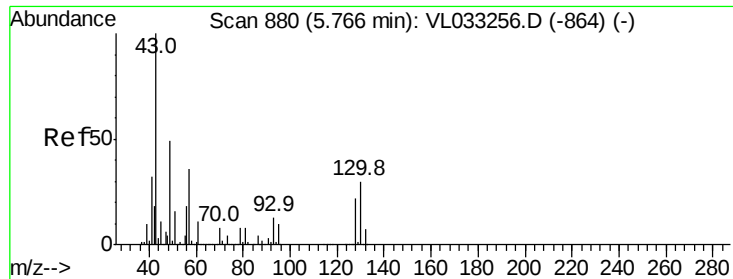
Delta R.T. 0.00 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Tgt Ion	63	Resp	65771
Ion Ratio	Lower	Upper	
63	100		
98	3.5	2.1	6.2
100	1.8	1.3	3.8





#25

Ethyl Acetate

Concen: 0.502 ppbv

RT: 5.78 min Scan# 883

Delta R.T. 0.01 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 43 Resp: 112368

Ion Ratio Lower Upper

43 100

45 9.9 7.8 11.8

61 8.8 7.4 11.0

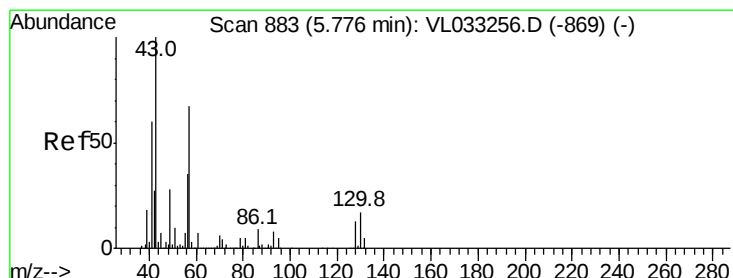
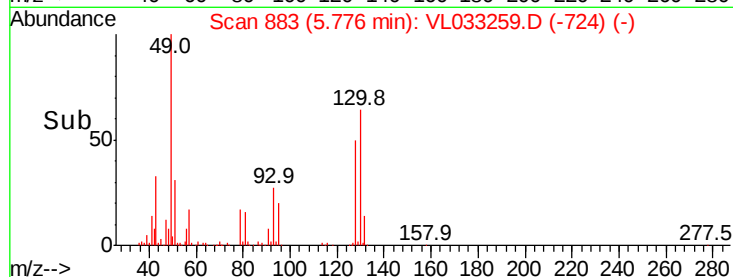
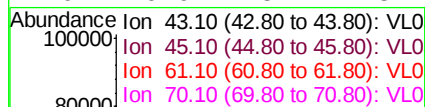
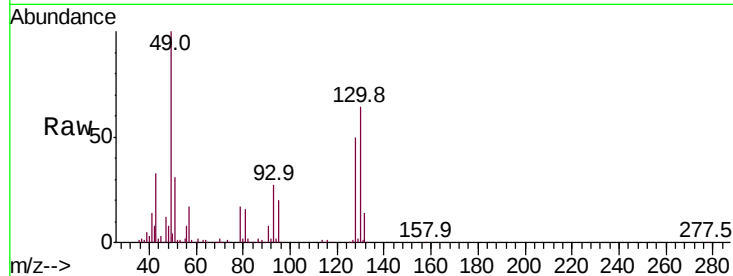
70 6.9 5.4 8.2

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#26

Hexane

Concen: 0.524 ppbv

RT: 5.78 min Scan# 883

Delta R.T. 0.00 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Tgt Ion: 57 Resp: 54789

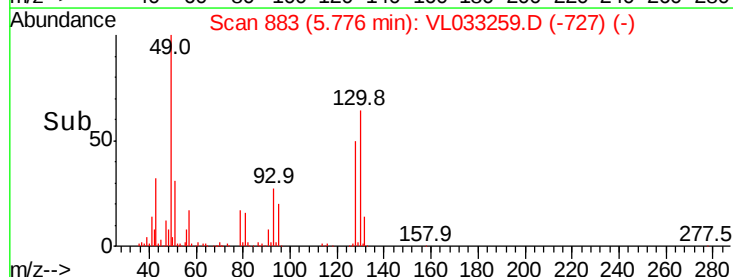
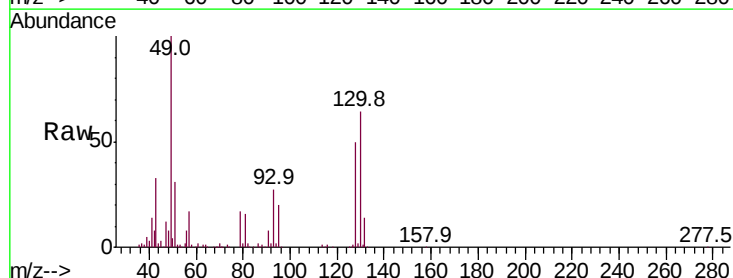
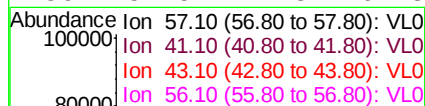
Ion Ratio Lower Upper

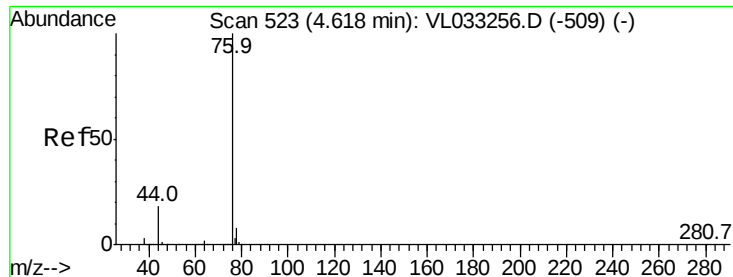
57 100

41 92.4 72.2 108.4

43 207.7 179.0 268.4

56 54.5 41.8 62.8





#27

Carbon Disulfide

Concen: 0.467 ppbv

RT: 4.62 min Scan# 524

Delta R.T. 0.00 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Instrument :

MSVOA_L

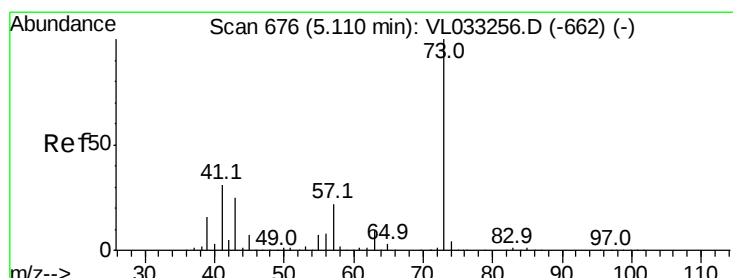
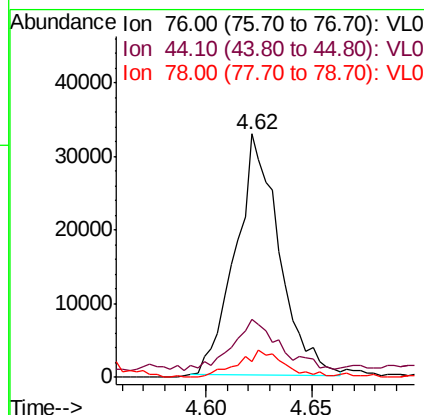
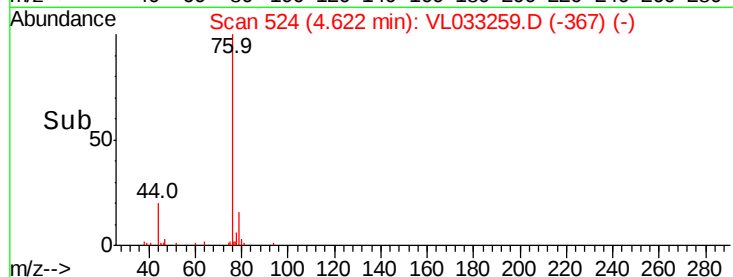
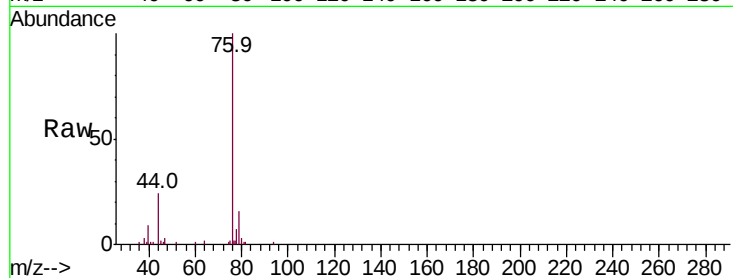
ClientSampleId :

VSTDIC0.5

Tot Ion:	76	Resp:	47133
Ion	Ratio	Lower	Upper
76	100		
44	25.2	14.8	22.2#
78	12.6	7.2	10.8#

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#28

Methyl tert-Butyl Ether

Concen: 0.458 ppbv

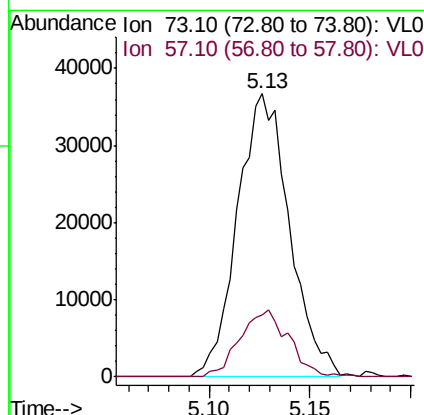
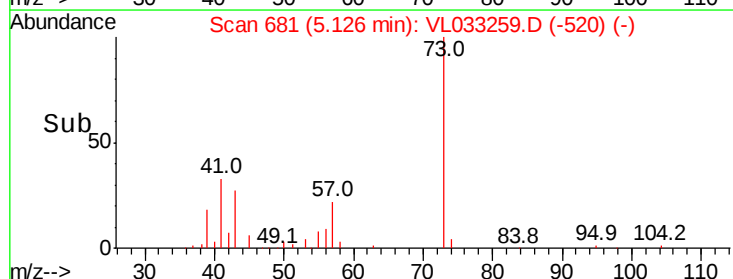
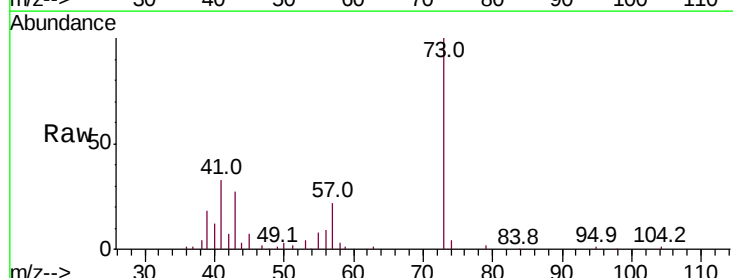
RT: 5.13 min Scan# 681

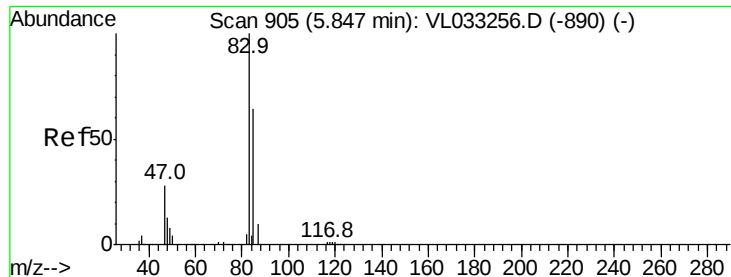
Delta R.T. 0.02 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Tgt Ion:	73	Resp:	66141
Ion	Ratio	Lower	Upper
73	100		
57	22.2	17.7	26.5





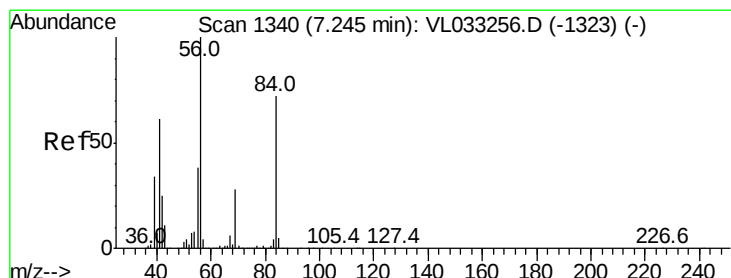
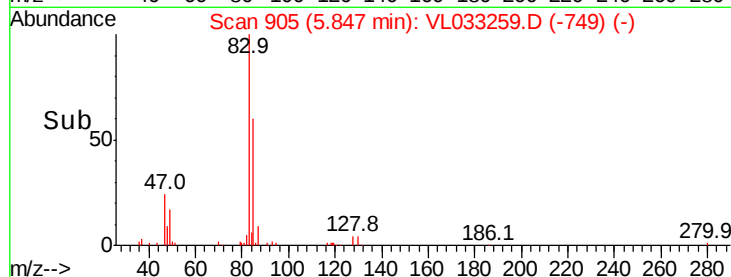
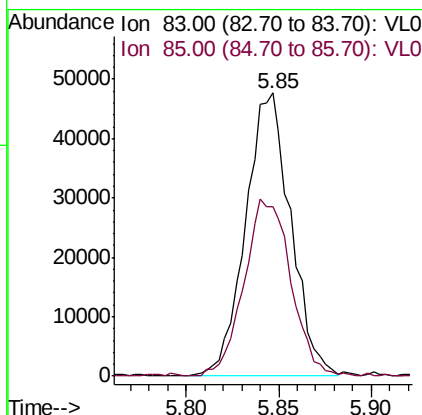
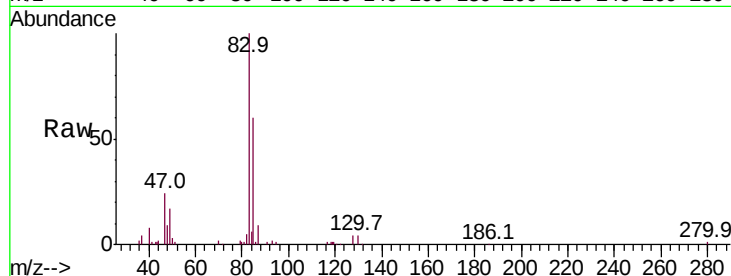
#29
Chloroform
Concen: 0.497 ppbv
RT: 5.85 min Scan# 905
Delta R.T. 0.00 min
Lab File: VL033259.D
Acq: 8 Mar 2019 14:41

Instrument :
MSVOA_L
ClientSampled :
VSTDIC0.5

Tot Ion: 83 Resp: 80901
Ion Ratio Lower Upper
83 100
85 59.8 51.0 76.6

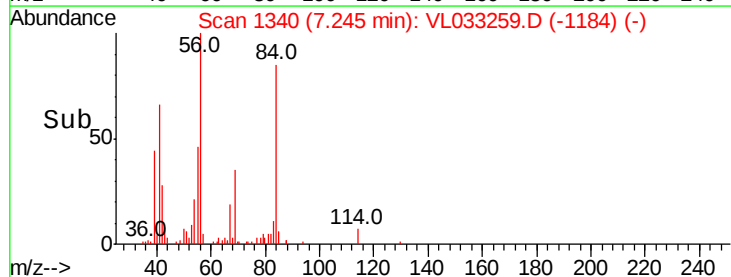
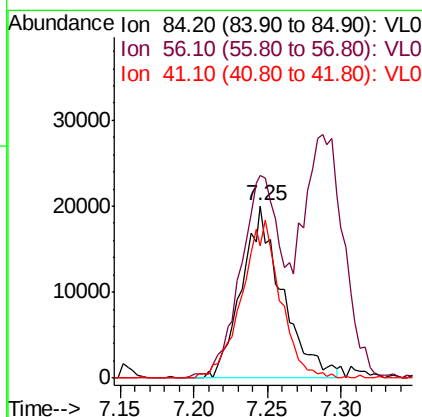
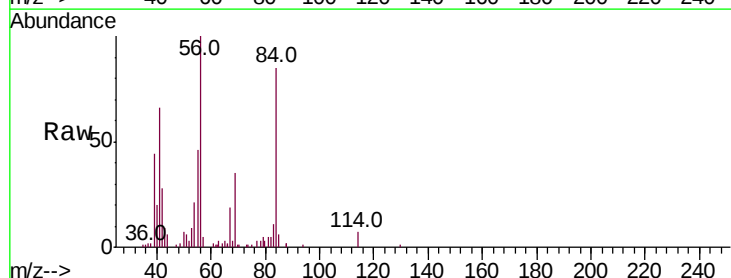
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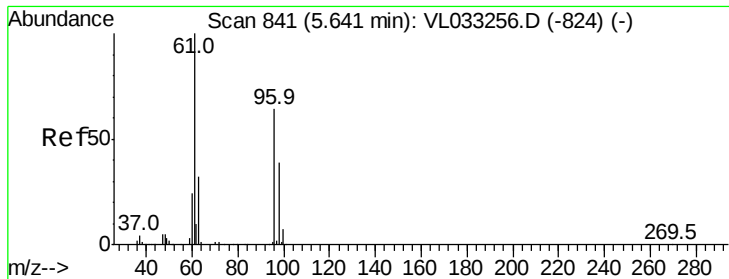
MMDadoda
3/11/2019 10:10:14 AM



#30
Cyclohexane
Concen: 0.487 ppbv m
RT: 7.25 min Scan# 1340
Delta R.T. 0.00 min
Lab File: VL033259.D
Acq: 8 Mar 2019 14:41

Tgt Ion: 84 Resp: 38146
Ion Ratio Lower Upper
84 100
56 117.4 113.4 170.2
41 87.7 70.2 105.4





#31

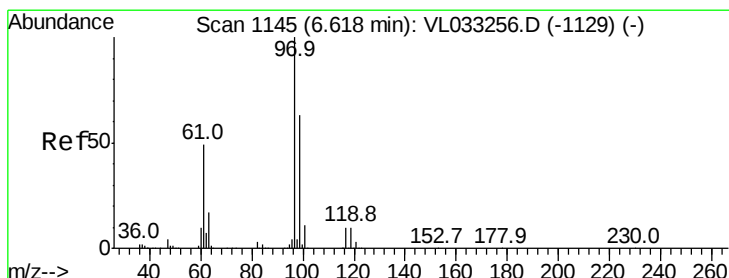
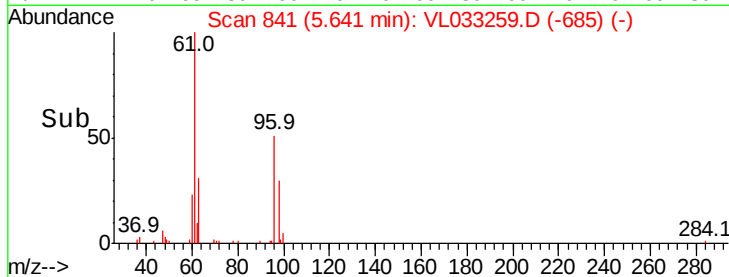
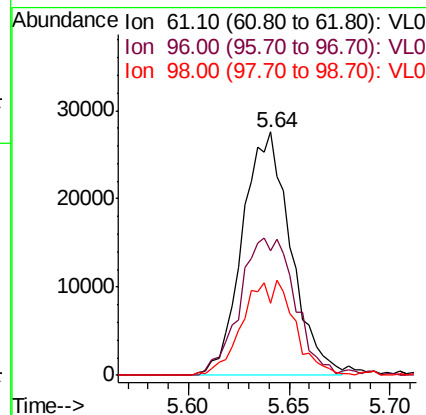
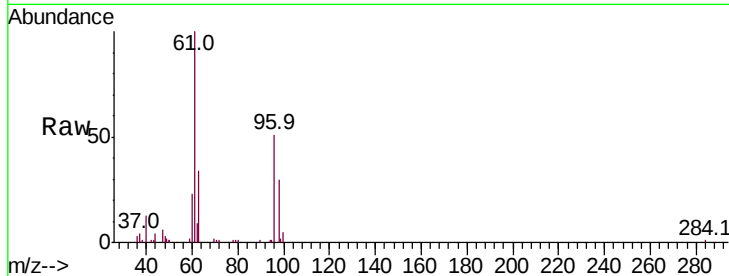
cis-1,2-Dichloroethene
Concen: 0.459 ppbv
RT: 5.64 min Scan# 841
Delta R.T. 0.00 min
Lab File: VL033259.D
Acq: 8 Mar 2019 14:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
61	100		
96	51.1	51.2	76.8#
98	29.7	30.8	46.2#

Manual Integrations
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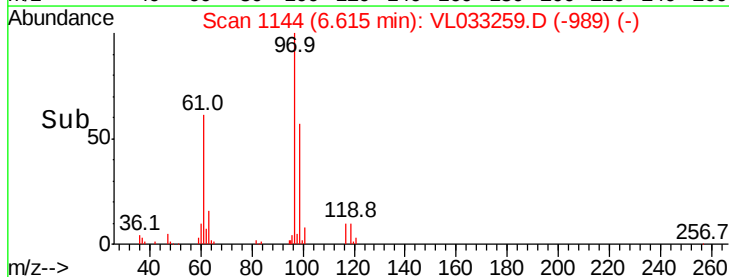
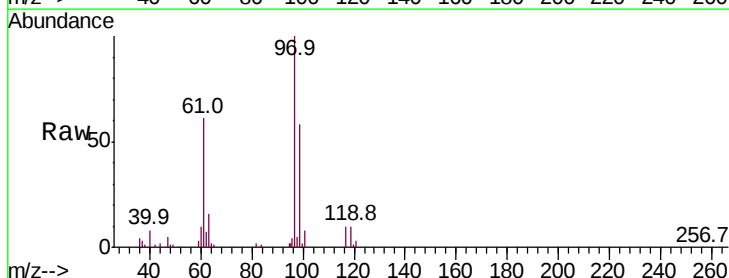
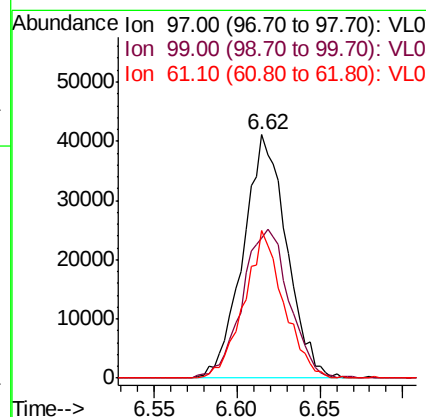
MMDadoda
3/11/2019 10:10:14 AM

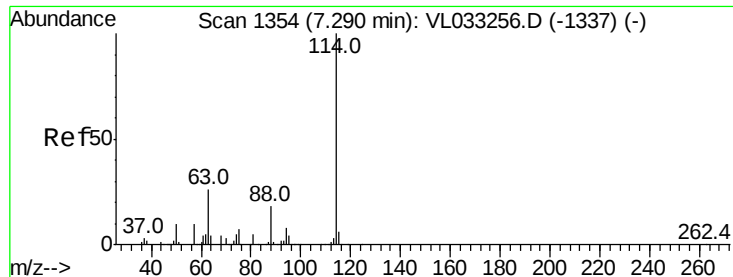


#32

1,1,1-Trichloroethane
Concen: 0.475 ppbv
RT: 6.62 min Scan# 1144
Delta R.T. -0.00 min
Lab File: VL033259.D
Acq: 8 Mar 2019 14:41

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.9	51.6	77.4
61	55.3	40.8	61.2





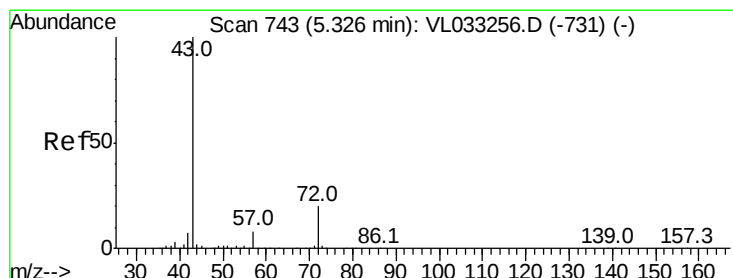
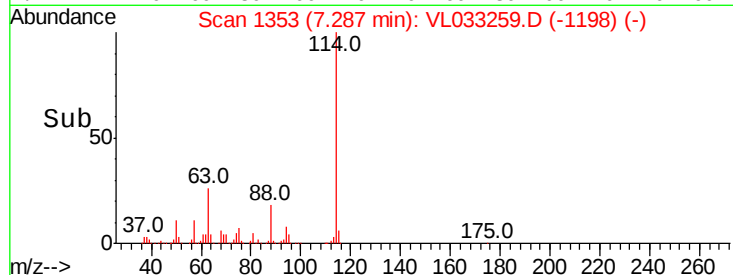
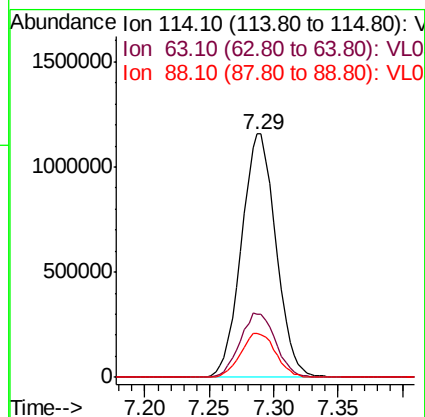
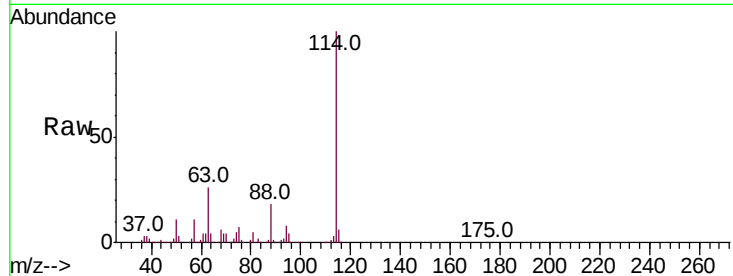
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.00 min
 Lab File: VL033259.D
 Acq: 8 Mar 2019 14:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.1	22.2	33.2
88	18.4	14.6	22.0

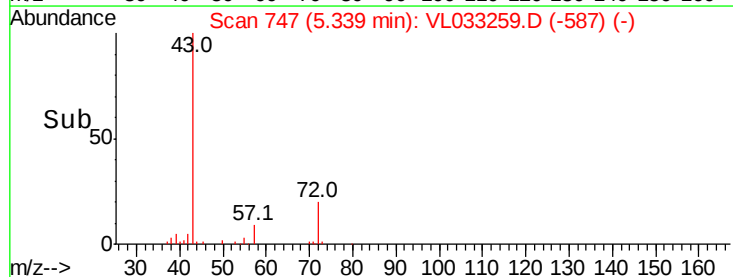
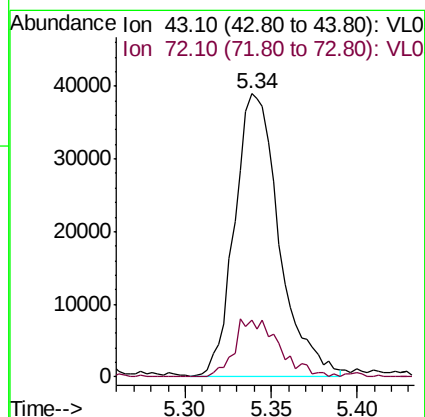
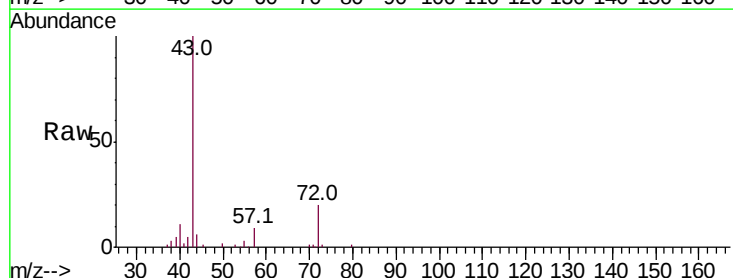
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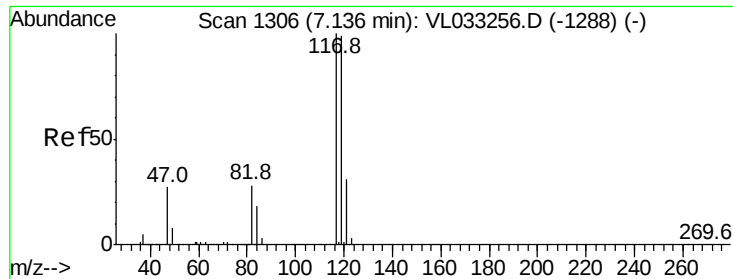
MMDadoda
 3/11/2019 10:10:14 AM



#34
 2-Butanone
 Concen: 0.469 ppbv
 RT: 5.34 min Scan# 747
 Delta R.T. 0.01 min
 Lab File: VL033259.D
 Acq: 8 Mar 2019 14:41

Tgt Ion	Ratio	Lower	Upper
43	100		
72	20.3	16.9	25.3





#35

Carbon Tetrachloride

Concen: 0.452 ppbv m

RT: 7.13 min Scan# 1305

Delta R.T. -0.00 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion:117 Resp: 73873

Ion Ratio Lower Upper

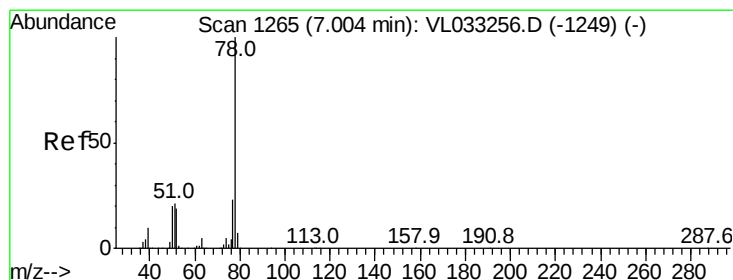
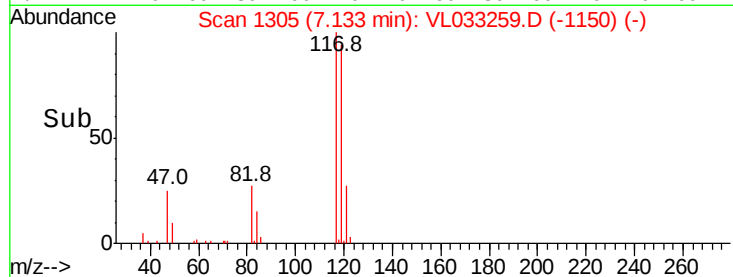
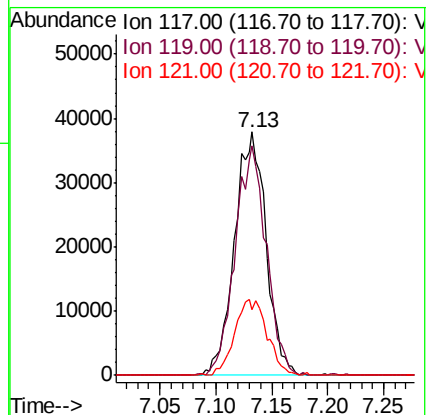
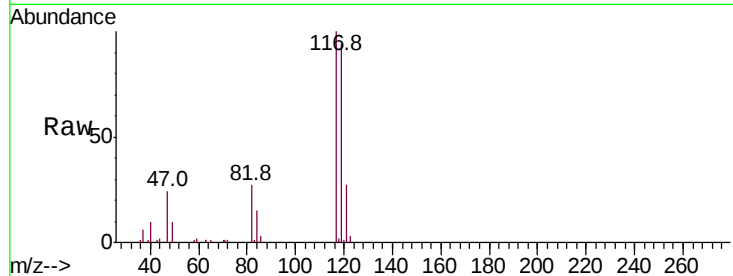
117 100

119 94.1 79.0 118.6

121 27.2 24.7 37.1

Manual Integrations
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MMDadoda
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#36

Benzene

Concen: 0.476 ppbv

RT: 7.00 min Scan# 1264

Delta R.T. -0.00 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

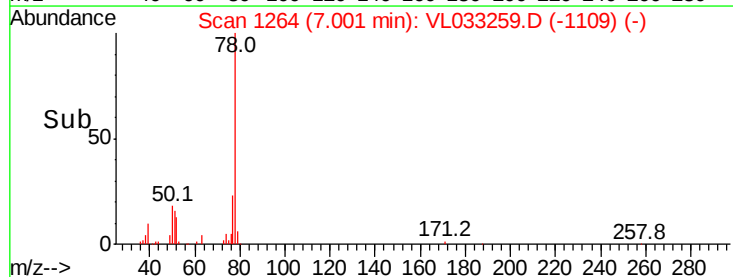
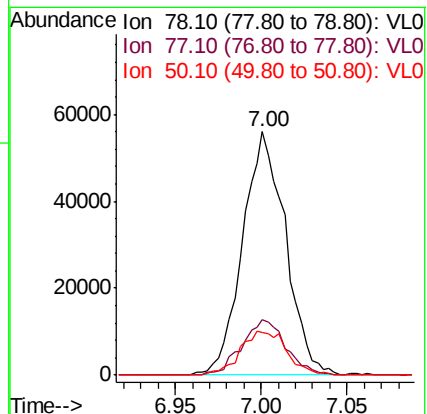
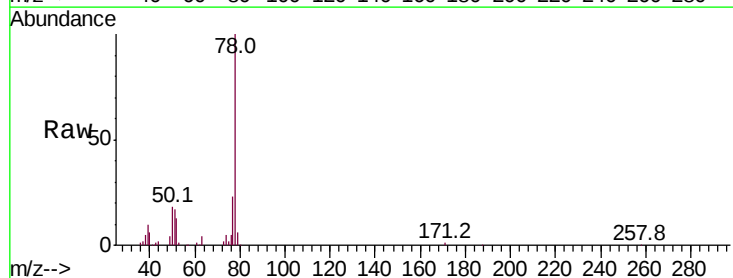
Tgt Ion: 78 Resp: 96611

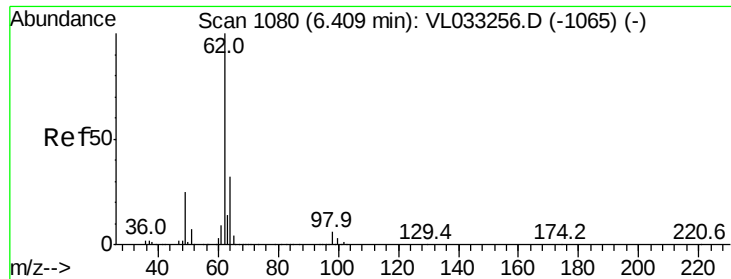
Ion Ratio Lower Upper

78 100

77 22.6 18.2 27.2

50 17.3 16.2 24.2





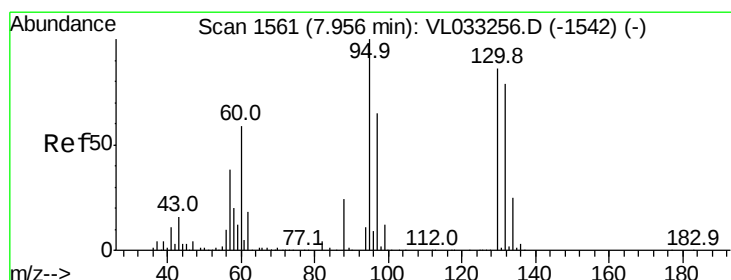
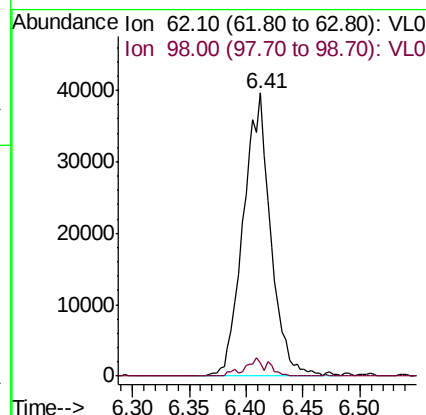
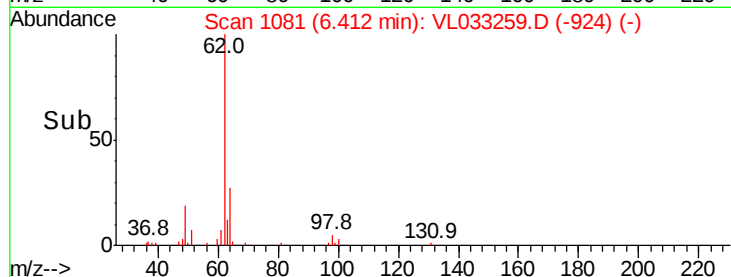
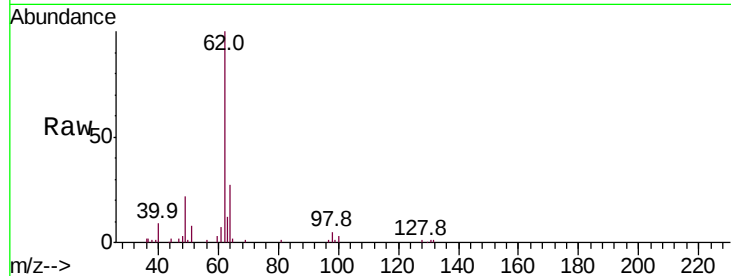
#37
 1,2-Dichloroethane
 Concen: 0.529 ppbv m
 RT: 6.41 min Scan# 1081
 Delta R.T. 0.00 min
 Lab File: VL033259.D
 Acq: 8 Mar 2019 14:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
62	100		
98	0.0	4.5	6.7#

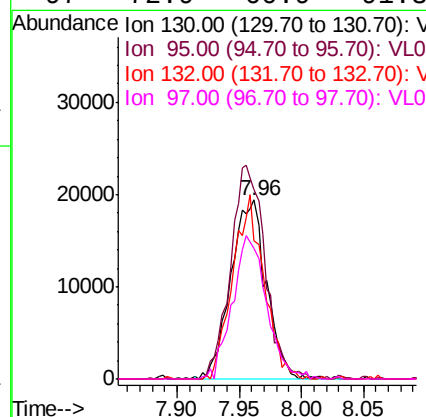
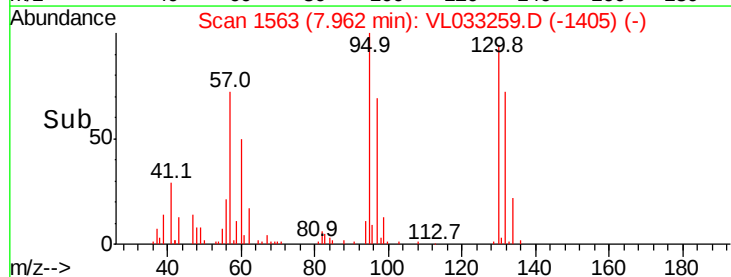
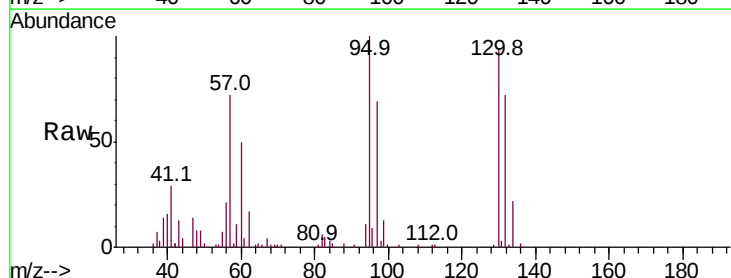
Manual Integrations
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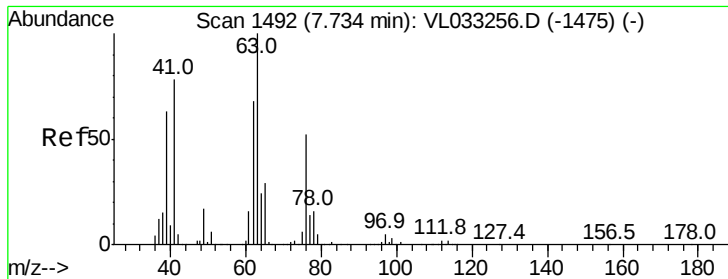
MMDadoda
 3/11/2019 10:10:14 AM



#38
 Trichloroethene
 Concen: 0.501 ppbv m
 RT: 7.96 min Scan# 1563
 Delta R.T. 0.01 min
 Lab File: VL033259.D
 Acq: 8 Mar 2019 14:41

Tgt Ion	Ratio	Lower	Upper
130	100		
95	106.0	93.4	140.0
132	76.8	74.0	111.0
97	72.9	60.9	91.3





#39

1,2-Dichloropropane

Concen: 0.459 ppbv

RT: 7.74 min Scan# 1493

Delta R.T. 0.00 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Instrument :

MSVOA_L

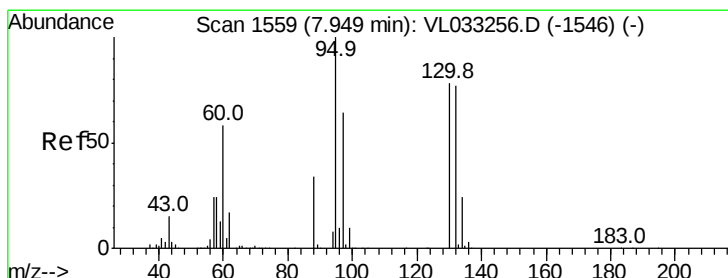
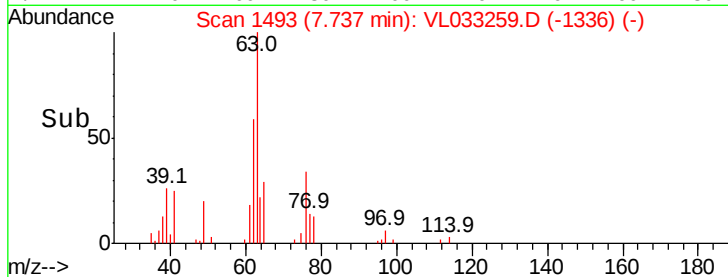
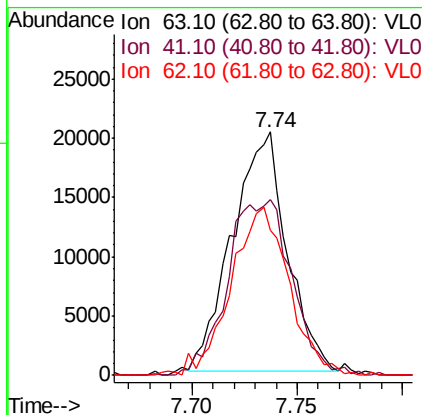
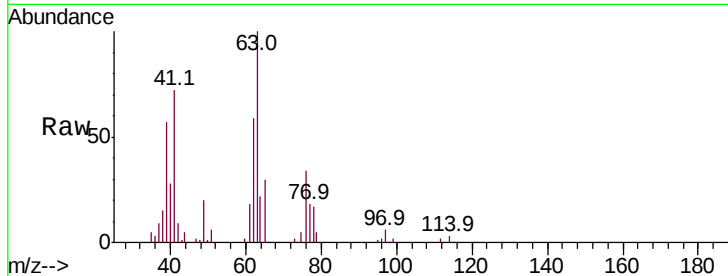
ClientSampleId :

VSTDIC0.5

Tot Ion:	63	Resp:	36347
Ion Ratio	Lower	Upper	
63	100		
41	71.7	62.6	94.0
62	57.9	54.6	81.8

Manual Integrations
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MMDadoda
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#40

1,4-Dioxane

Concen: 0.495 ppbv m

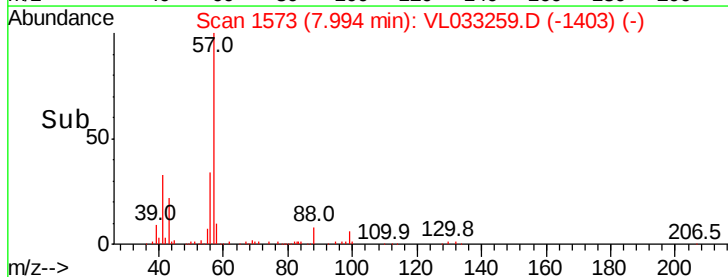
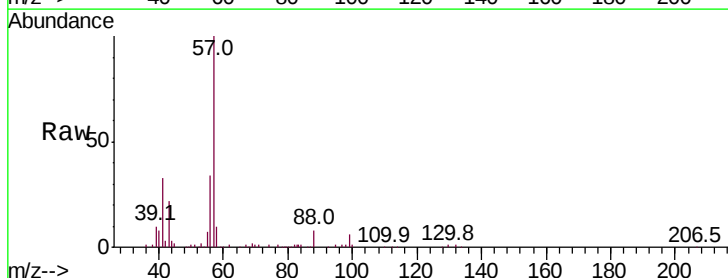
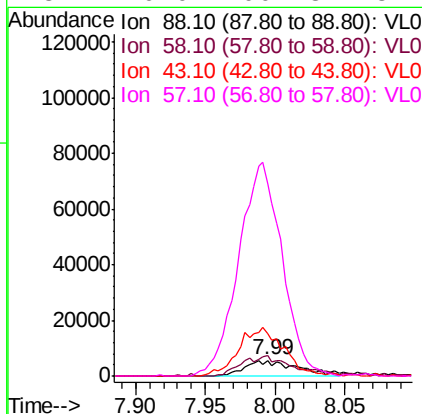
RT: 7.99 min Scan# 1573

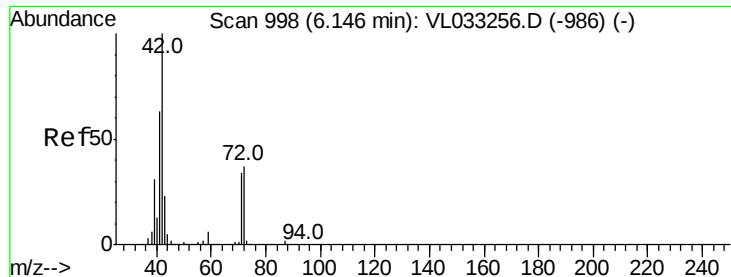
Delta R.T. 0.05 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Tgt Ion:	88	Resp:	14541
Ion Ratio	Lower	Upper	
88	100		
58	0.0	108.4	162.6#
43	0.0	232.3	348.5#
57	0.0	1007.8	1511.8#





#41

Tetrahydrofuran

Concen: 0.449 ppbv m

RT: 6.18 min Scan# 1008

Delta R.T. 0.03 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 42 Resp: 36908

Ion Ratio Lower Upper

42 100

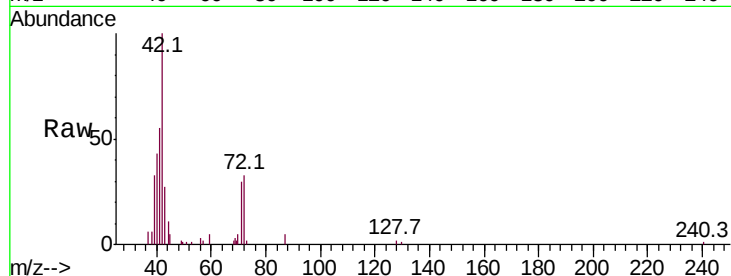
72 0.0 30.2 45.2#

71 0.0 29.0 43.6#

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3/11/2019 10:10:14 AM

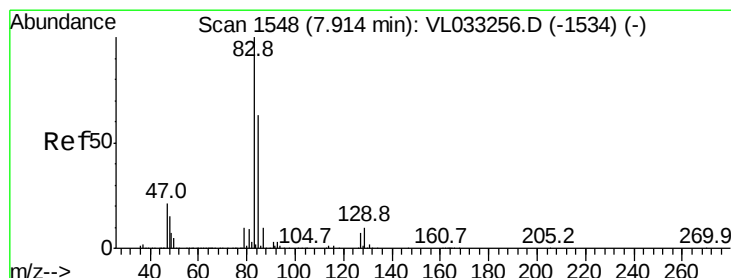
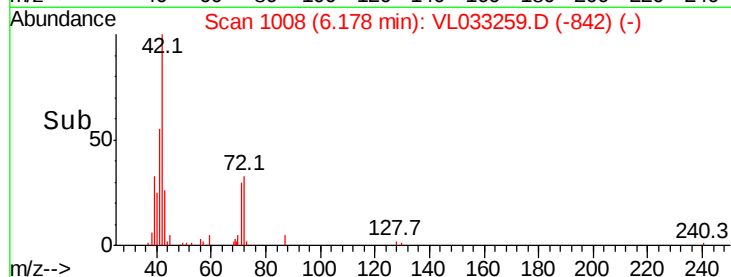
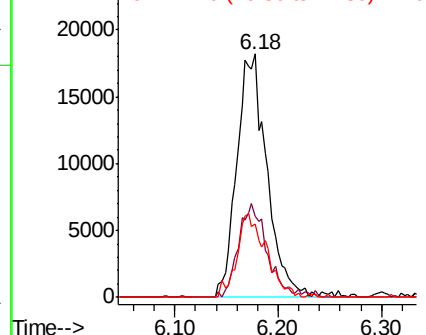


Abundance

Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 0.448 ppbv

RT: 7.91 min Scan# 1547

Delta R.T. -0.00 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

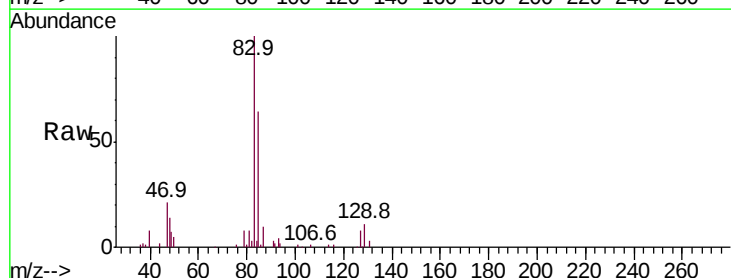
Tgt Ion: 83 Resp: 79995

Ion Ratio Lower Upper

83 100

85 64.2 50.1 75.1

127 8.6 5.9 8.9

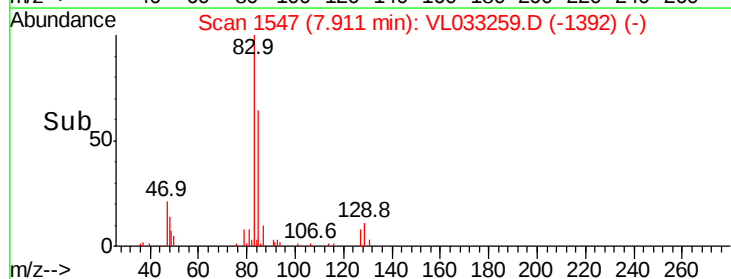
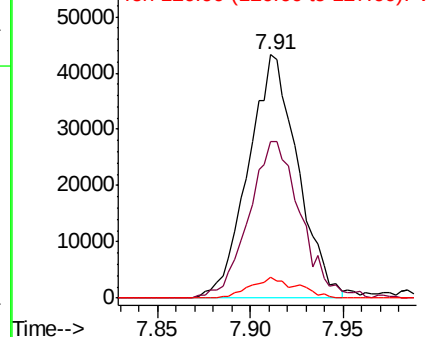


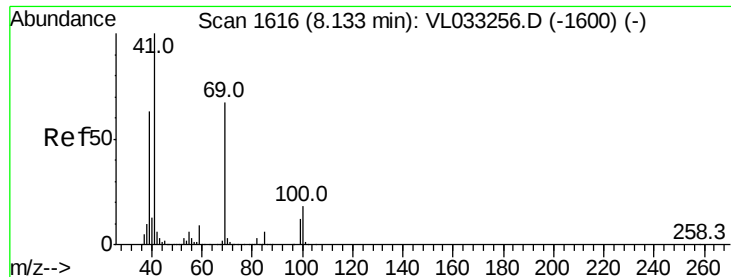
Abundance

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V





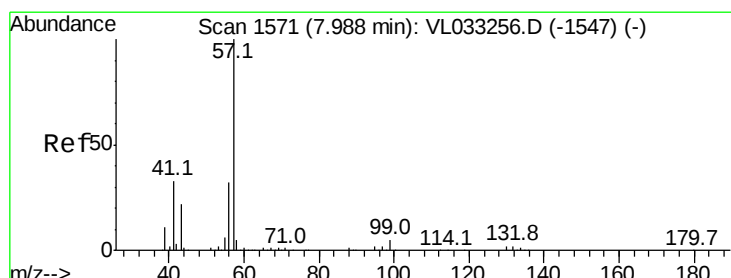
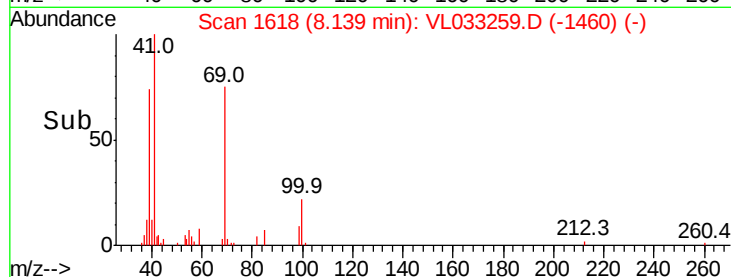
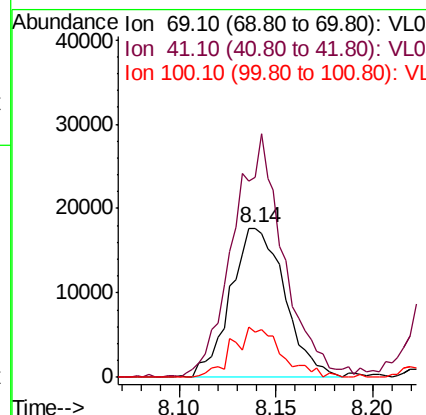
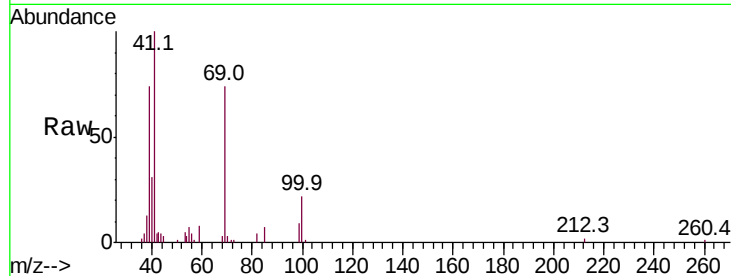
#43
Methvl Methacrylate
Concen: 0.419 ppbv
RT: 8.14 min Scan# 1618
Delta R.T. 0.01 min
Lab File: VL033259.D
Acq: 8 Mar 2019 14:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
69	100		
41	154.5	120.3	180.5
100	30.6	23.5	35.3

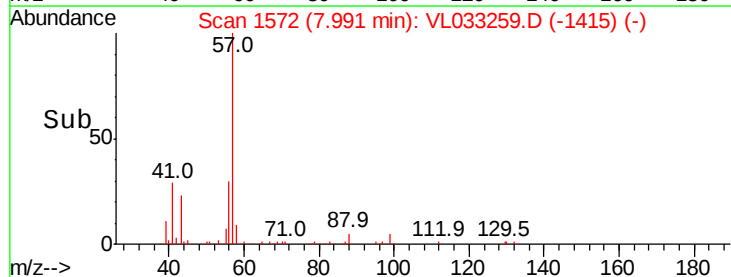
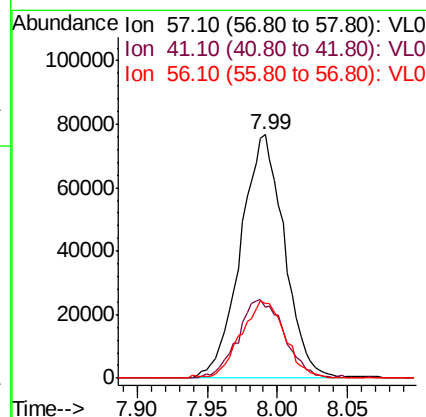
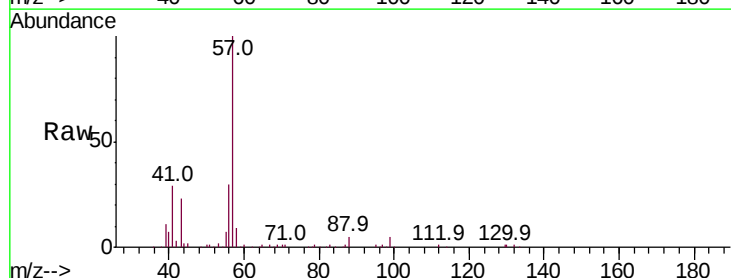
Manual Integrations
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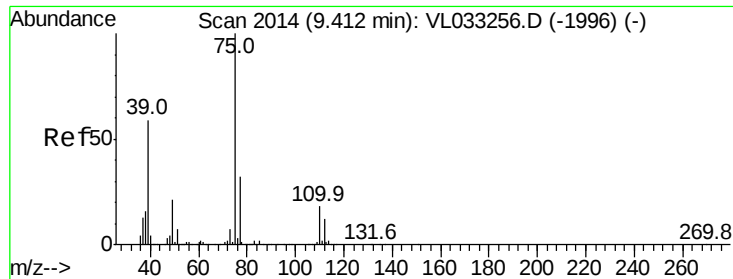
MMDadoda
3/11/2019 10:10:14 AM



#44
2,2,4-Trimethylpentane
Concen: 0.464 ppbv
RT: 7.99 min Scan# 1572
Delta R.T. 0.00 min
Lab File: VL033259.D
Acq: 8 Mar 2019 14:41

Tgt Ion	Ratio	Lower	Upper
57	100		
41	34.3	26.4	39.6
56	32.1	25.1	37.7





#45

t-1,3-Dichloropropene

Concen: 0.378 ppbv

RT: 9.41 min Scan# 2013

Delta R.T. -0.00 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

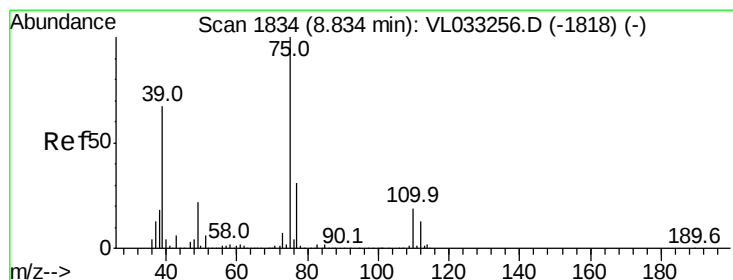
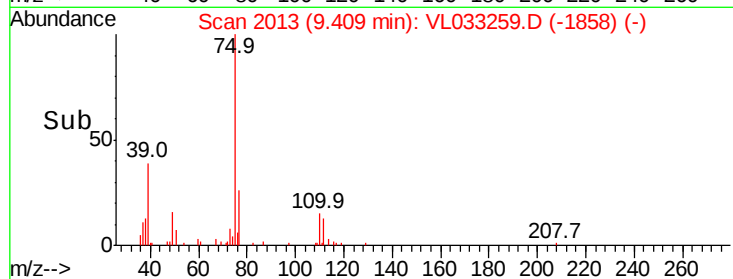
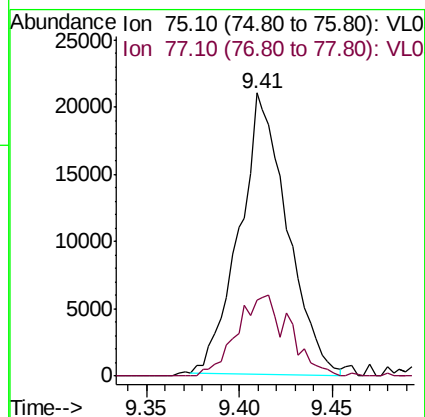
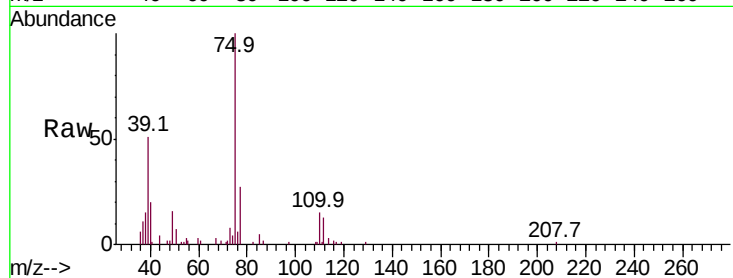
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion: 75 Resp: 37541

Ion	Ratio	Lower	Upper
75	100		
77	26.8	25.4	38.0

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#46

cis-1,3-Dichloropropene

Concen: 0.391 ppbv

RT: 8.83 min Scan# 1833

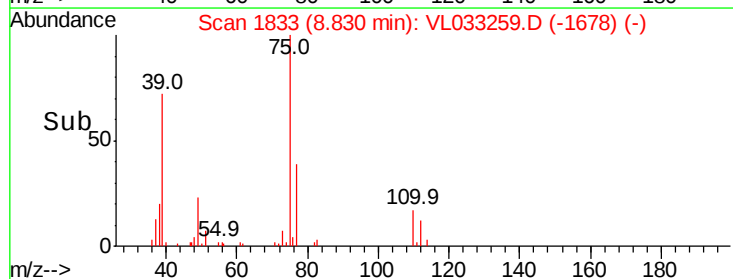
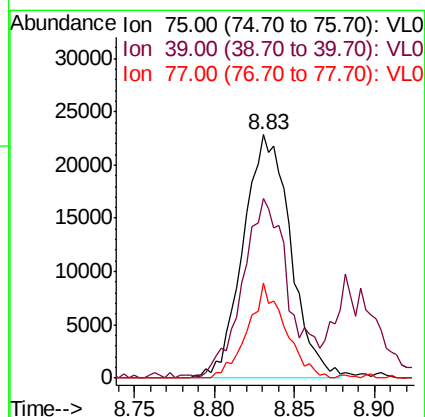
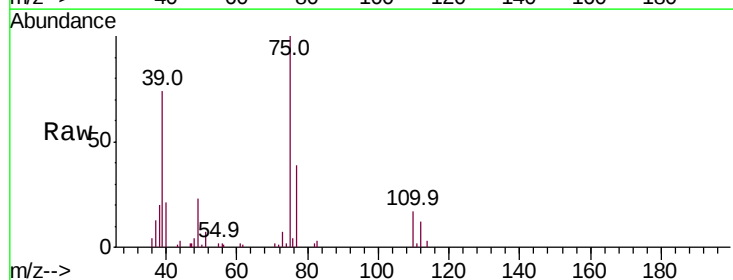
Delta R.T. -0.00 min

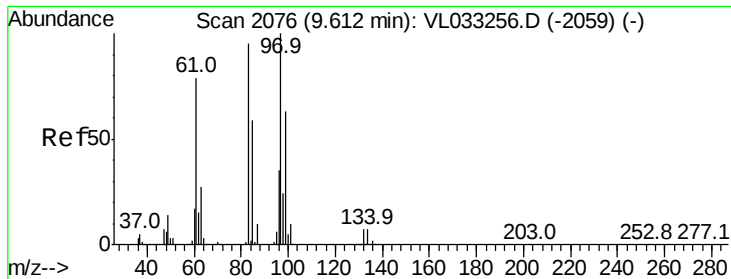
Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Tgt Ion: 75 Resp: 46342

Ion	Ratio	Lower	Upper
75	100		
39	72.5	53.8	80.6
77	38.9	25.0	37.6#





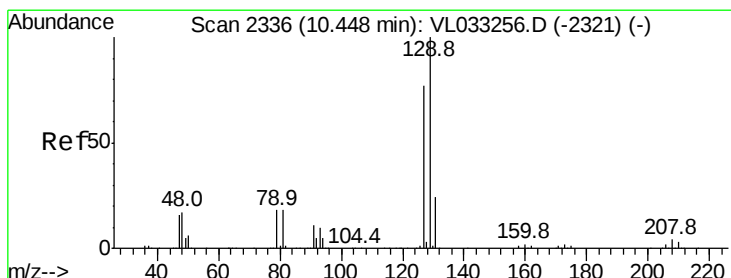
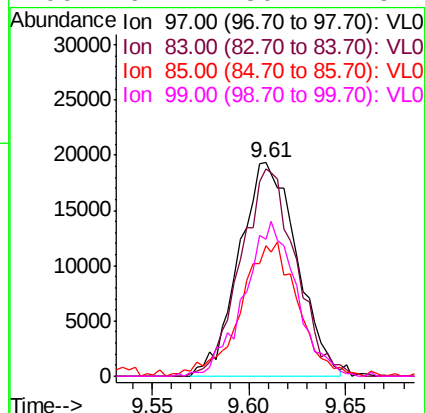
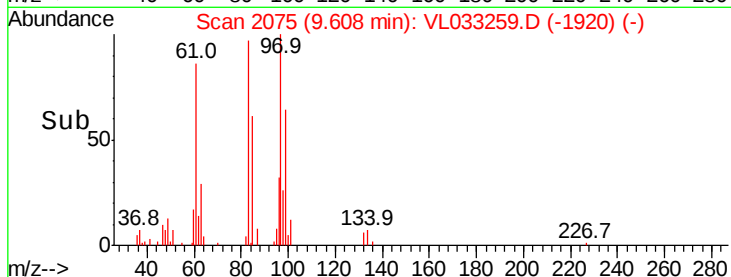
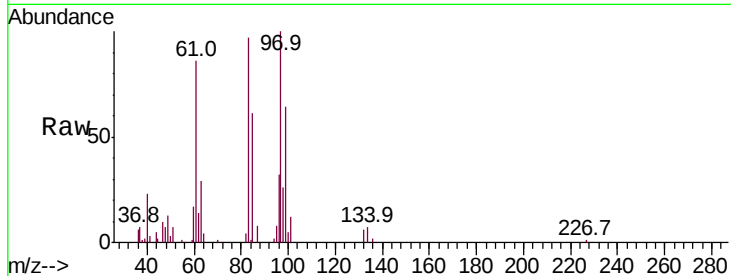
#47
 1,1,2-Trichloroethane
 Concen: 0.472 ppbv
 RT: 9.61 min Scan# 2075
 Delta R.T. -0.00 min
 Lab File: VL033259.D
 Acq: 8 Mar 2019 14:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	97	Resp	40226
Ion Ratio	Lower	Upper	
97	100		
83	95.4	75.8	113.8
85	59.2	47.5	71.3
99	62.2	50.2	75.2

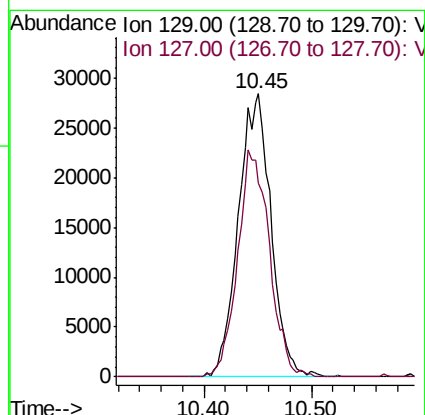
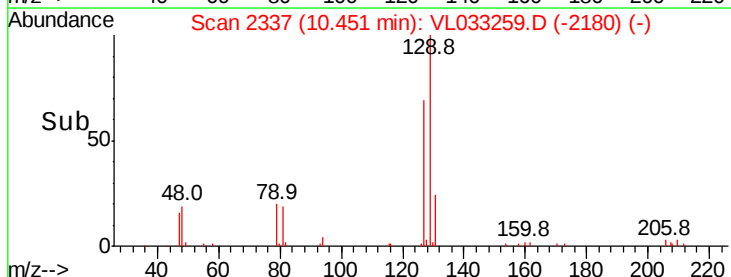
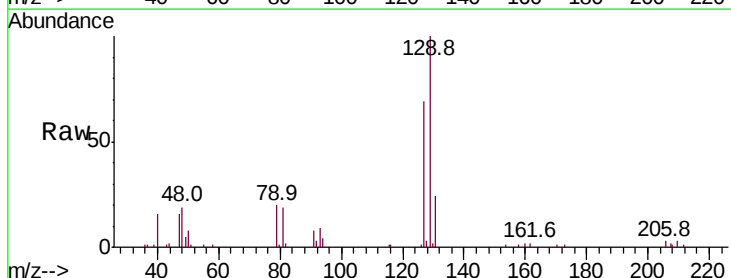
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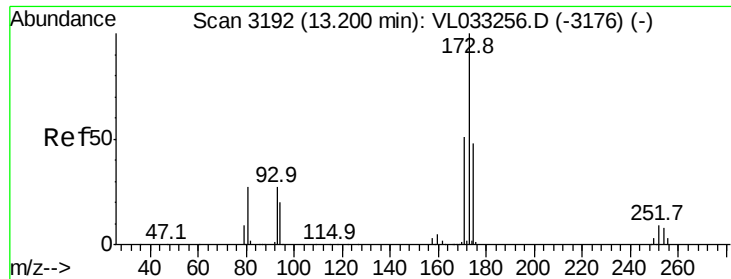
MMDadoda
 3/11/2019 10:10:14 AM



#48
 Dibromochloromethane
 Concen: 0.435 ppbv m
 RT: 10.45 min Scan# 2337
 Delta R.T. 0.00 min
 Lab File: VL033259.D
 Acq: 8 Mar 2019 14:41

Tgt Ion	129	Resp	59976
Ion Ratio	Lower	Upper	
129	100		
127	77.8	39.4	118.2





#49

Bromoform

Concen: 0.536 ppbv

RT: 13.20 min Scan# 3191

Delta R.T. -0.00 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion:173 Resp: 59078

Ion Ratio Lower Upper

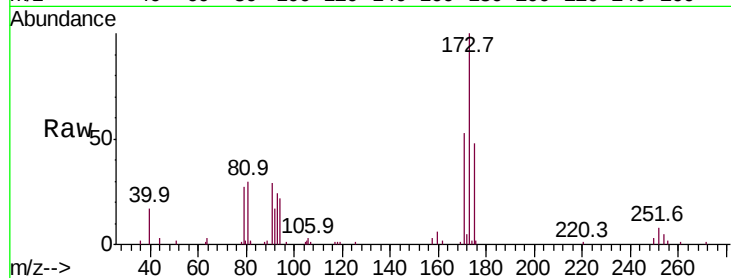
173 100

175 49.5 38.8 58.2

171 51.9 41.5 62.3

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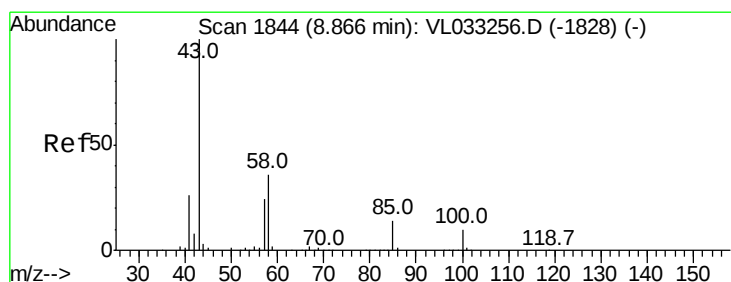
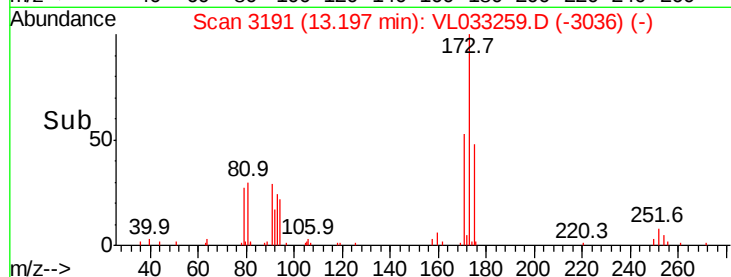
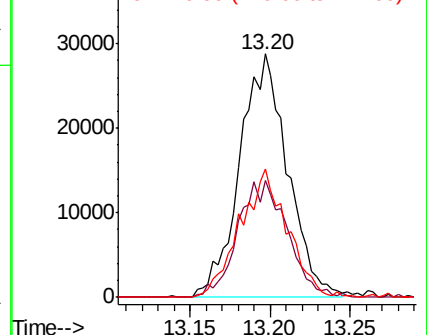
MMDadoda
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Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 0.425 ppbv

RT: 8.89 min Scan# 1851

Delta R.T. 0.02 min

Lab File: VL033259.D

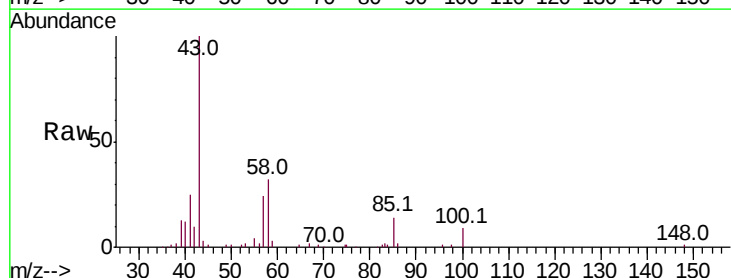
Acq: 8 Mar 2019 14:41

Tgt Ion: 43 Resp: 94170

Ion Ratio Lower Upper

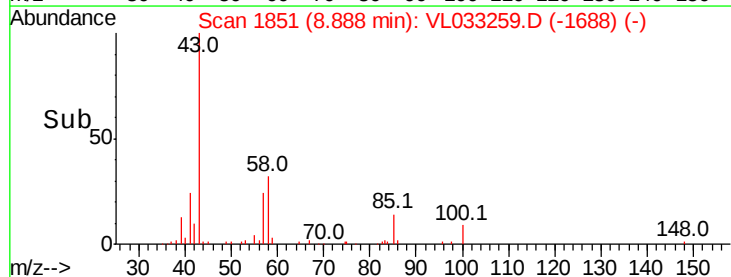
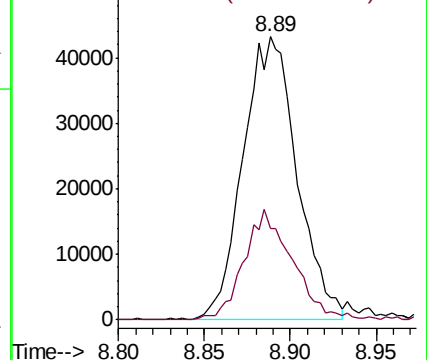
43 100

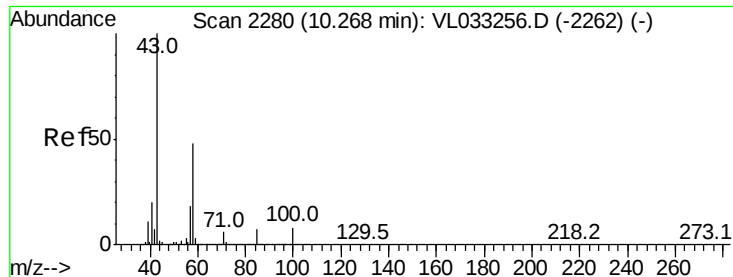
58 35.3 28.1 42.1



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 0.396 ppbv

RT: 10.30 min Scan# 2289

Delta R.T. 0.03 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Instrument :

MSVOA_L

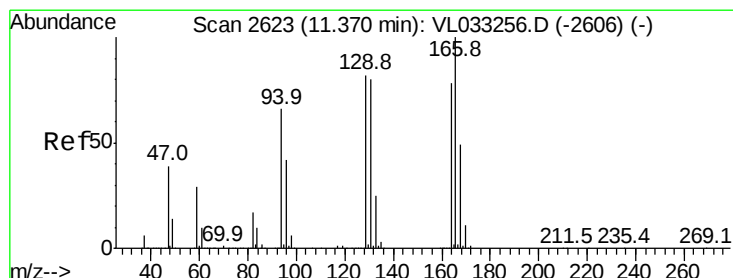
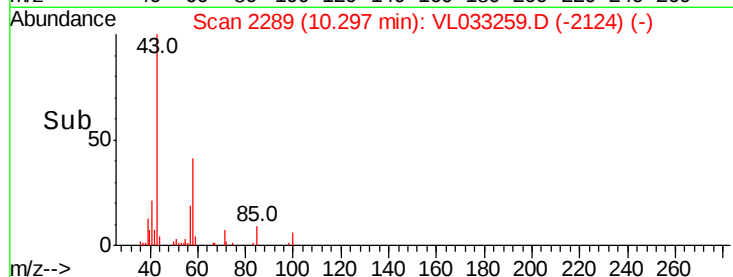
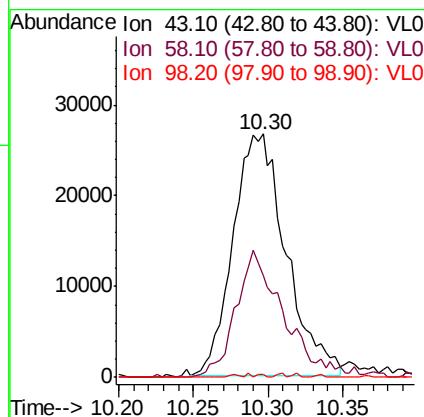
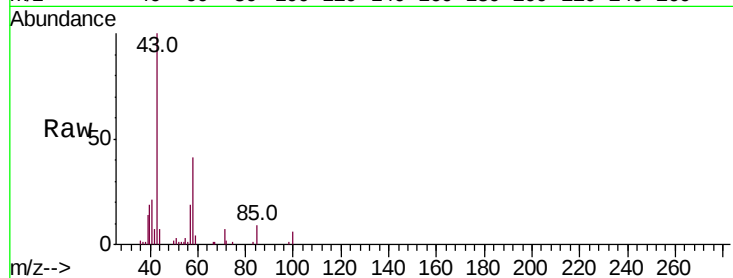
ClientSampleId :

VSTDIC0.5

Tot Ion:	43	Resp:	65646
Ion Ratio	Lower	Upper	
43	100		
58	48.1	38.1	57.1
98	0.8	0.2	0.4#

Manual Integrations
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#52

Tetrachloroethene

Concen: 0.467 ppbv

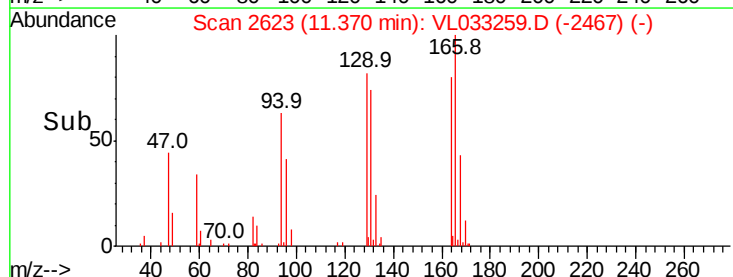
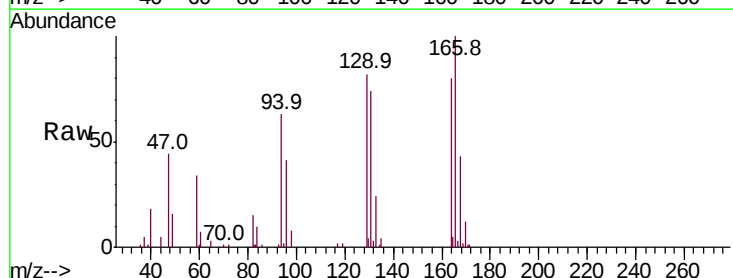
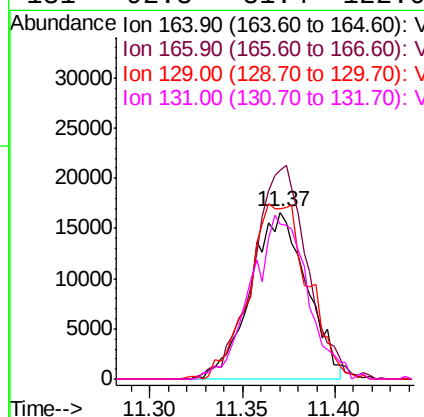
RT: 11.37 min Scan# 2623

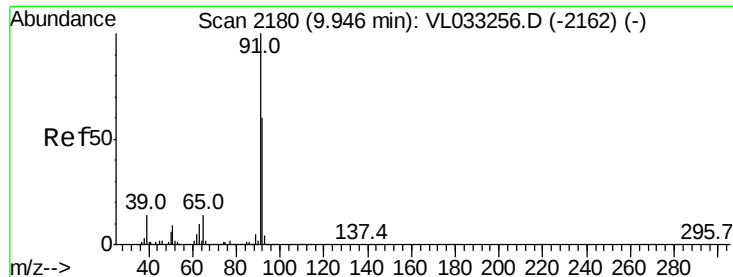
Delta R.T. 0.00 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Tgt Ion:	164	Resp:	35265
Ion Ratio	Lower	Upper	
164	100		
166	125.4	102.0	153.0
129	101.0	83.2	124.8
131	92.8	81.4	122.0





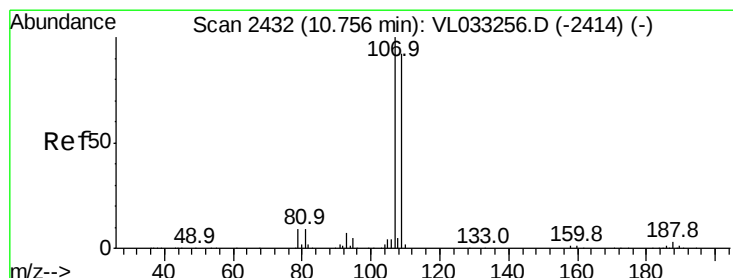
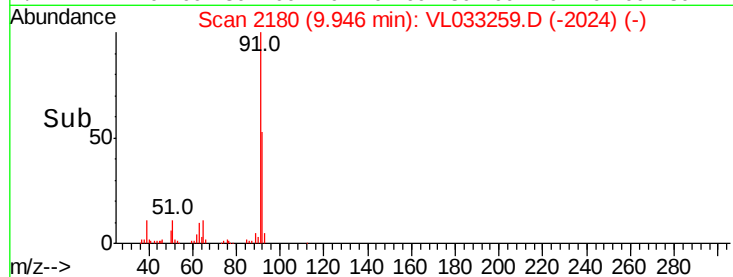
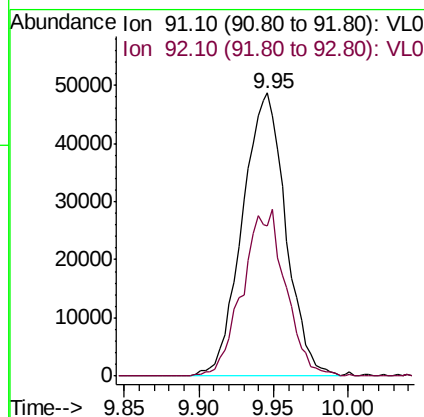
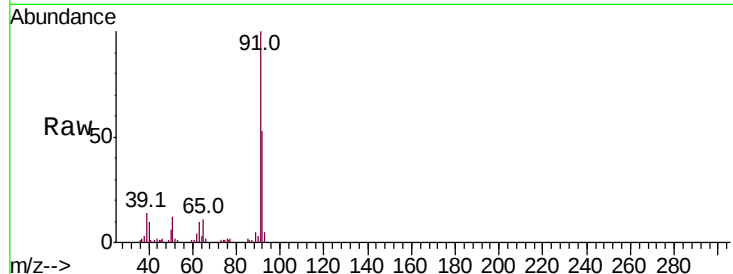
#53
Toluene
Concen: 0.420 ppbv
RT: 9.95 min Scan# 2180
Delta R.T. 0.00 min
Lab File: VL033259.D
Acq: 8 Mar 2019 14:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ion	Ratio	Lower	Upper
91	100			
92	58.0	47.7	71.5	

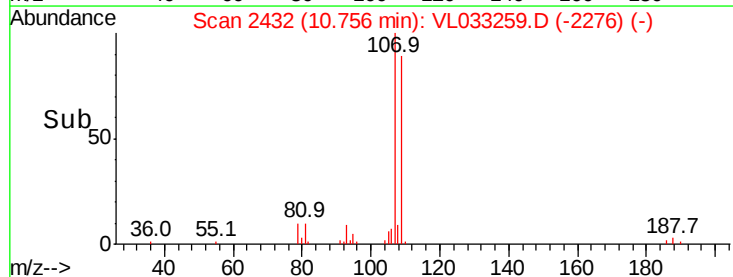
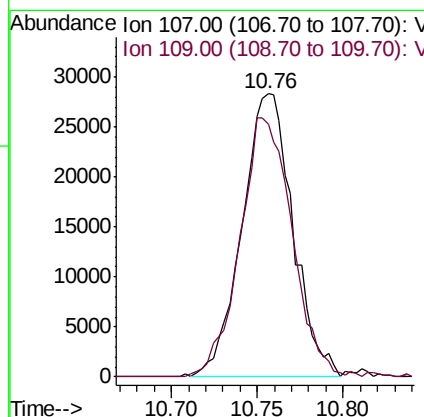
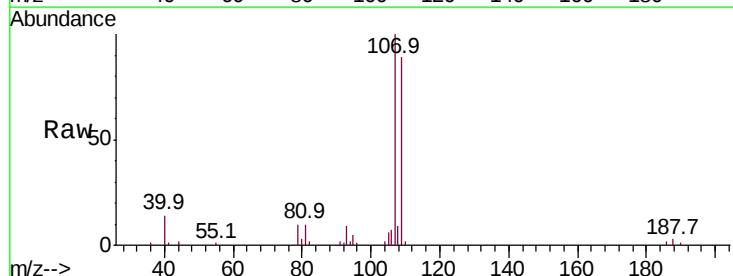
Manual Integrations
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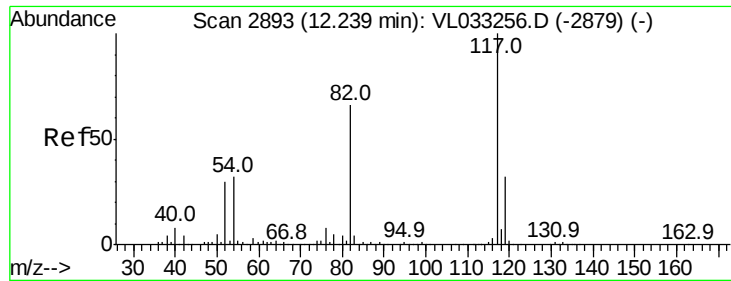
MMDadoda
3/11/2019 10:10:14 AM



#54
1,2-Dibromoethane
Concen: 0.450 ppbv
RT: 10.76 min Scan# 2432
Delta R.T. 0.00 min
Lab File: VL033259.D
Acq: 8 Mar 2019 14:41

Tgt Ion	Ion	Ratio	Lower	Upper
107	100			
109	88.1	73.9	110.9	





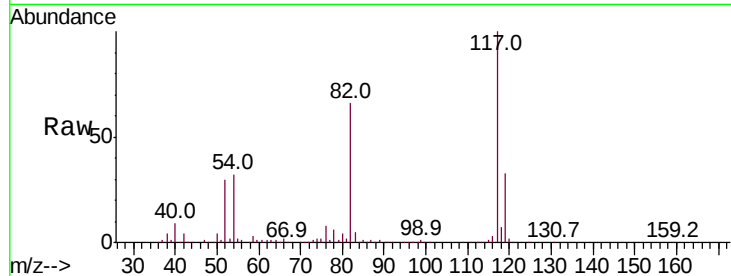
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2892
Delta R.T. -0.00 min
Lab File: VL033259.D
Acq: 8 Mar 2019 14:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

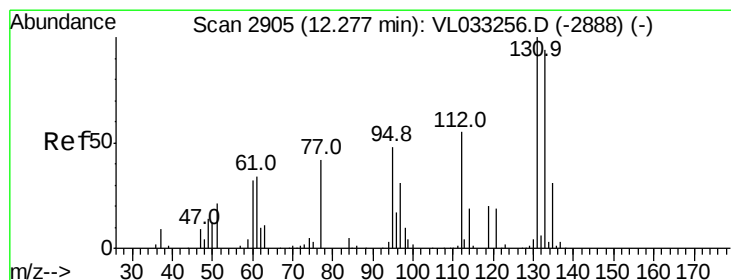
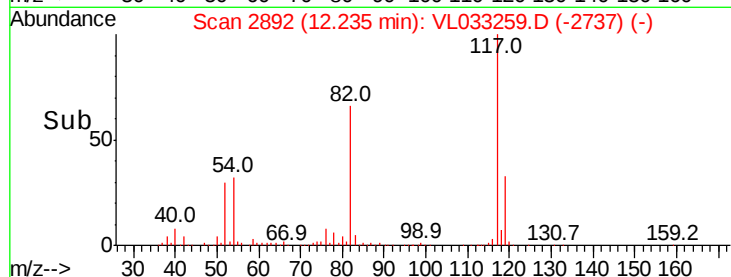
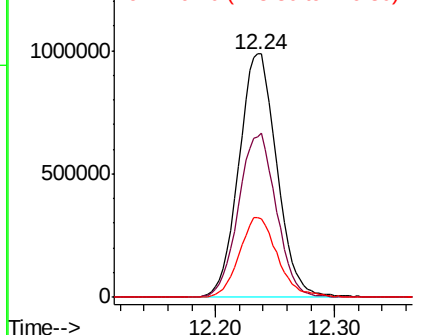
Tot Ion:117 Resp: 2180802
Ion Ratio Lower Upper
117 100
82 67.2 52.2 78.4
119 33.2 43.4 65.2#

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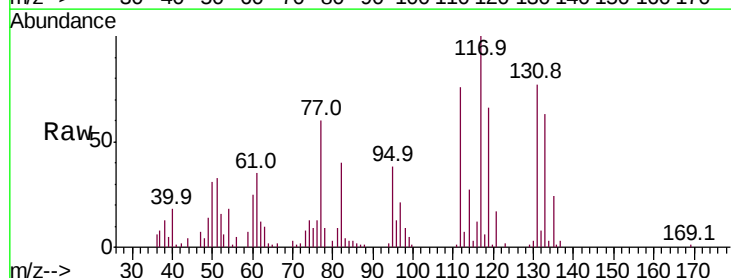


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

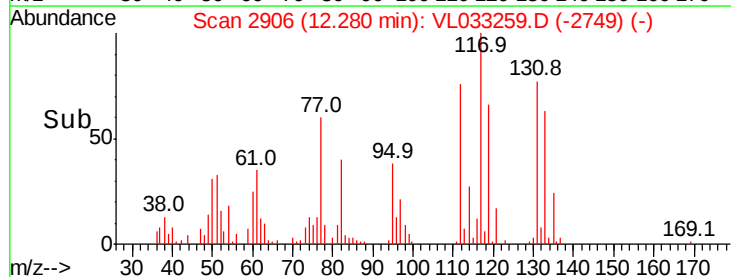
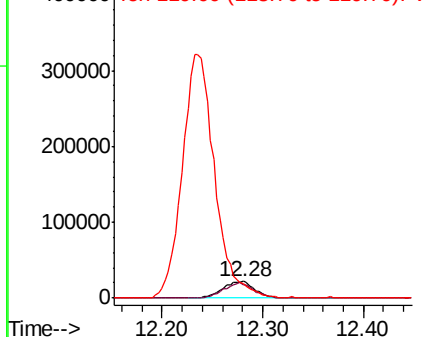


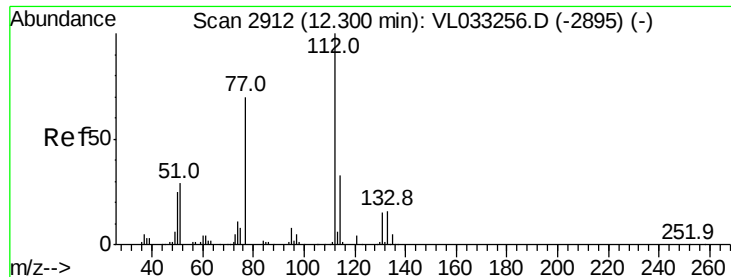
#56
1,1,1,2-Tetrachloroethane
Concen: 0.508 ppbv m
RT: 12.28 min Scan# 2906
Delta R.T. 0.00 min
Lab File: VL033259.D
Acq: 8 Mar 2019 14:41

Tgt Ion:131 Resp: 48048
Ion Ratio Lower Upper
131 100
133 88.7 76.3 114.5
119 0.0 109.2 163.8#



Abundance Ion 131.00 (130.70 to 131.70): V
Ion 133.00 (132.70 to 133.70): V
Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 0.504 ppbv m

RT: 12.30 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Instrument :

MSVOA_L

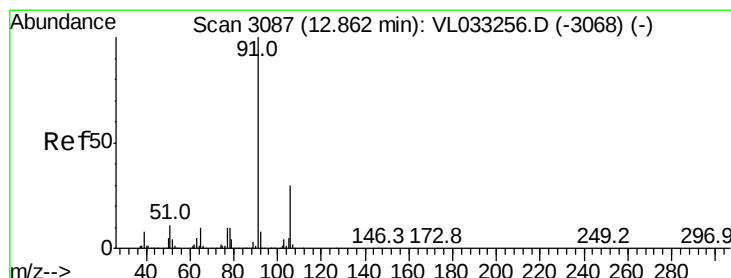
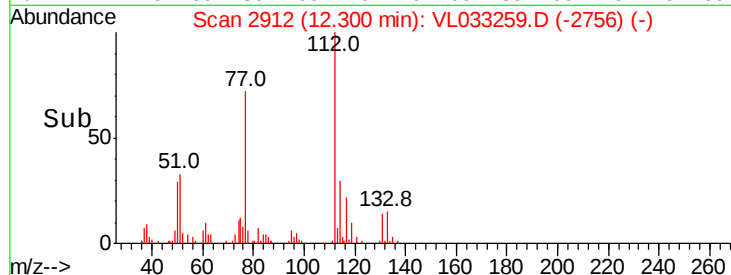
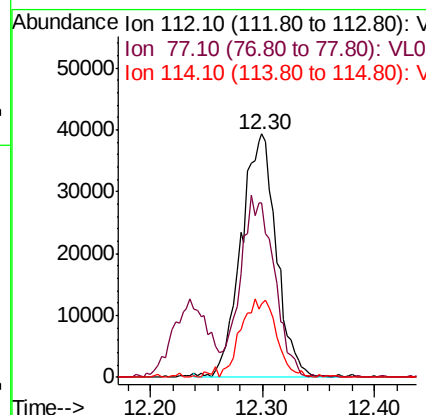
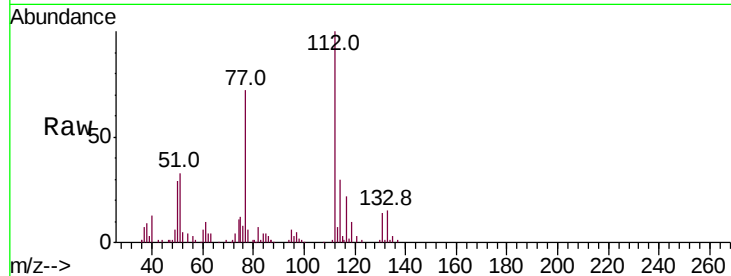
ClientSampleId :

VSTDIC0.5

Tot Ion:	112	Resp:	85542
Ion Ratio	Lower	Upper	
112	100		
77	71.5	56.8	85.2
114	30.0	29.5	36.1

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#58

Ethyl Benzene

Concen: 0.458 ppbv m

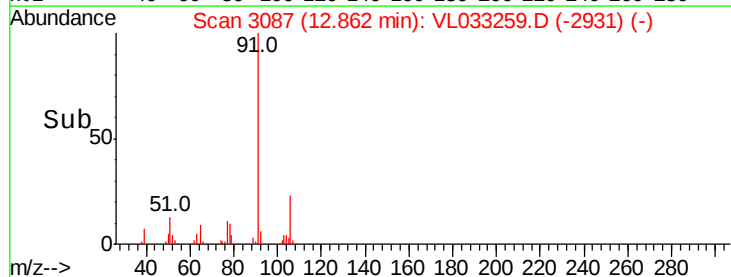
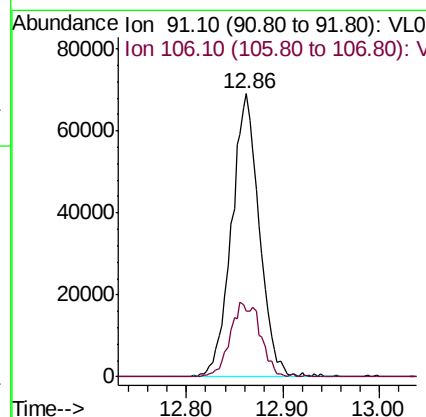
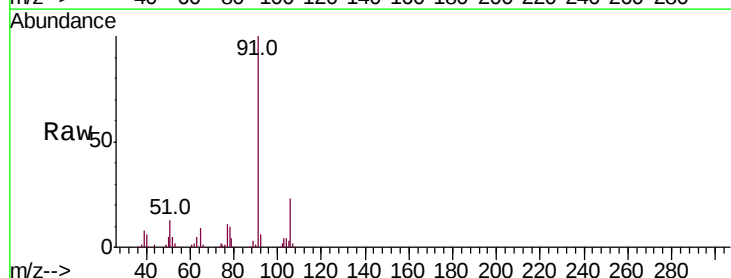
RT: 12.86 min Scan# 3087

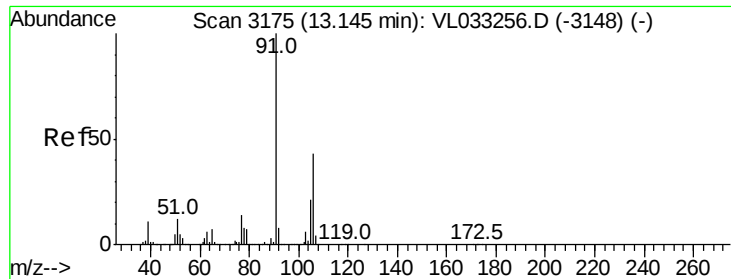
Delta R.T. 0.00 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Tgt Ion:	91	Resp:	138026
Ion Ratio	Lower	Upper	
91	100		
106	23.1	23.7	35.5#





#59

m/p-Xylene

Concen: 1.248 ppbv m

RT: 13.14 min Scan# 3172

Delta R.T. -0.01 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 91 Resp: 320823

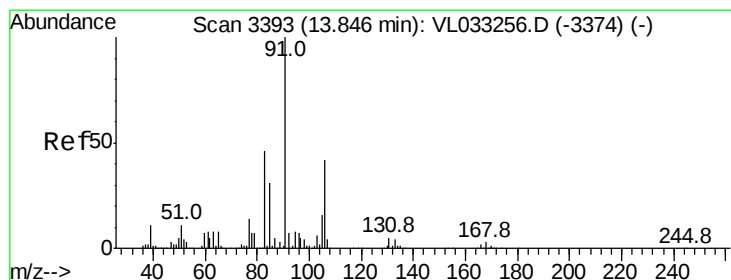
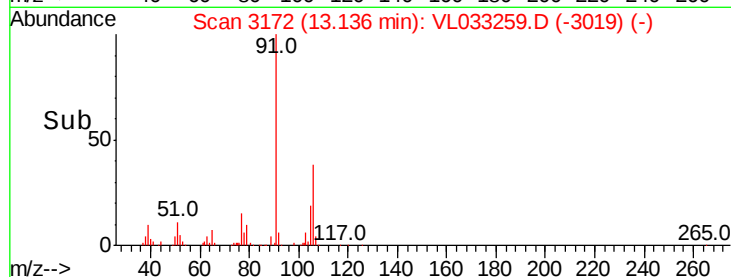
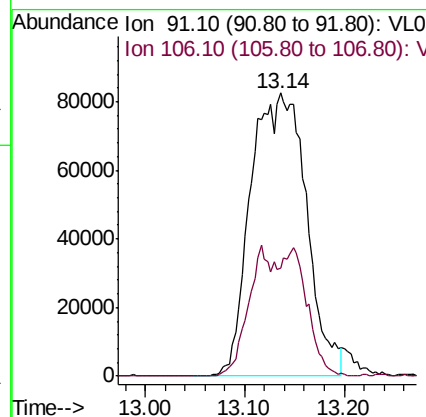
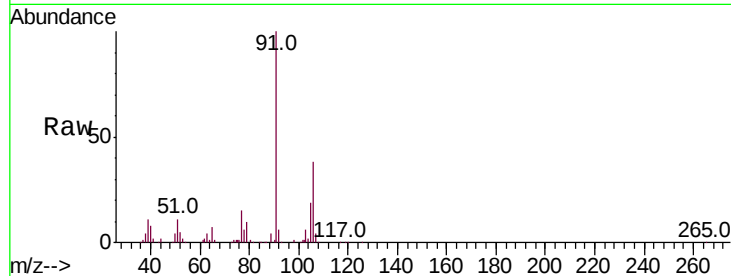
Ion Ratio Lower Upper

91 100

106 0.0 35.0 52.4#

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#60

o-Xylene

Concen: 0.632 ppbv m

RT: 13.85 min Scan# 3394

Delta R.T. 0.00 min

Lab File: VL033259.D

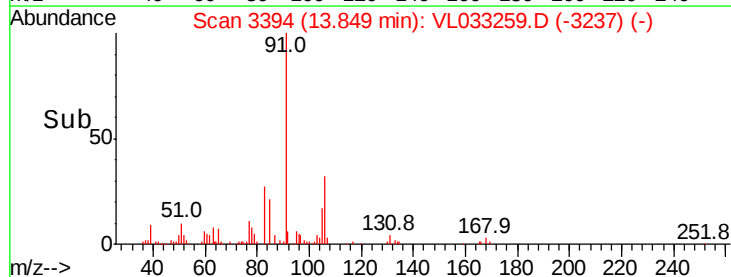
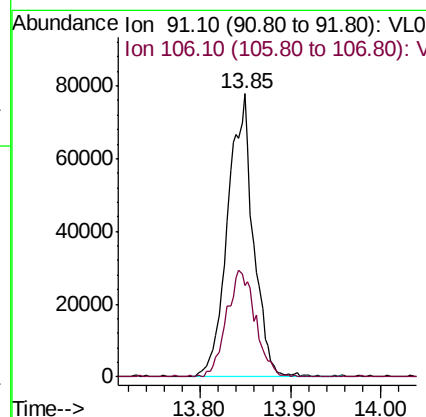
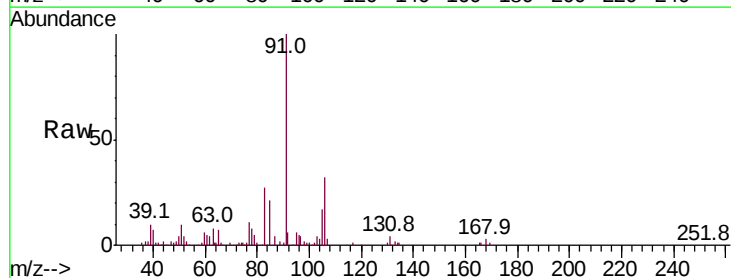
Acq: 8 Mar 2019 14:41

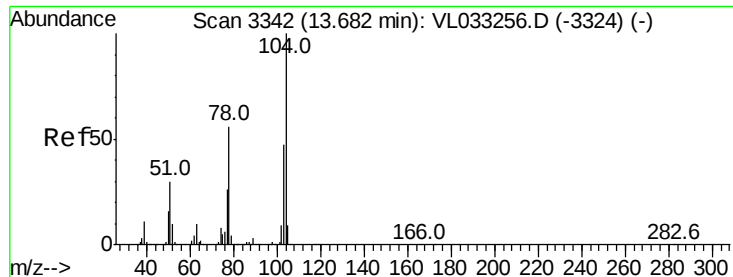
Tgt Ion: 91 Resp: 155014

Ion Ratio Lower Upper

91 100

106 41.9 21.1 63.4





#61

Stvrene

Concen: 0.548 ppbv

RT: 13.68 min Scan# 3341

Delta R.T. -0.00 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Instrument :

MSVOA_L

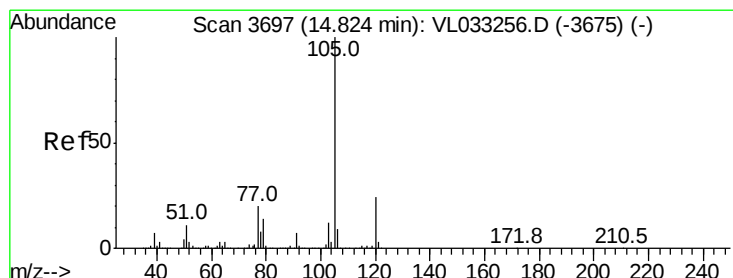
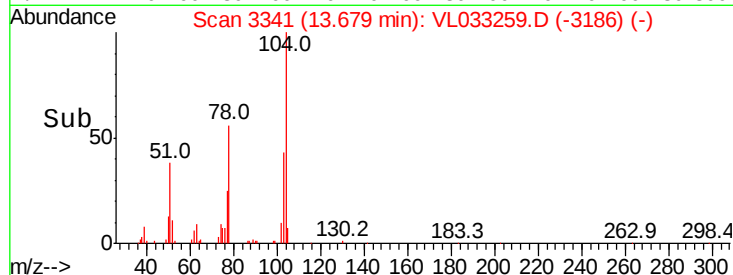
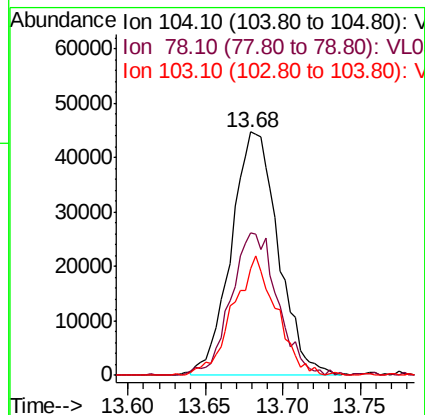
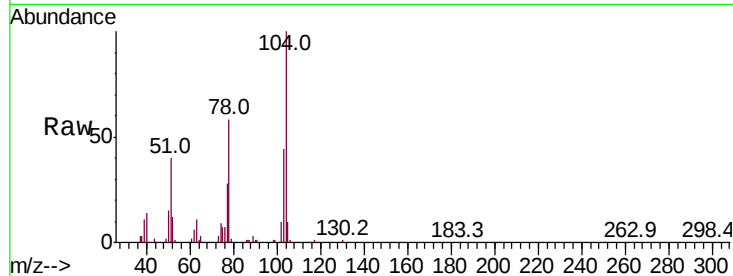
ClientSampleId :

VSTDIC0.5

Tot Ion:	104	Resp:	94529
Ion Ratio	Lower	Upper	
104	100		
78	58.3	43.9	65.9
103	45.6	38.3	57.5

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#62

Isopropylbenzene

Concen: 0.549 ppbv m

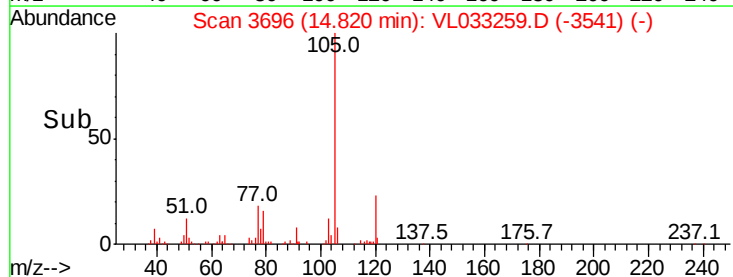
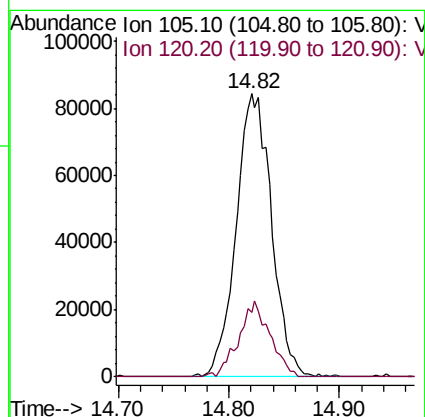
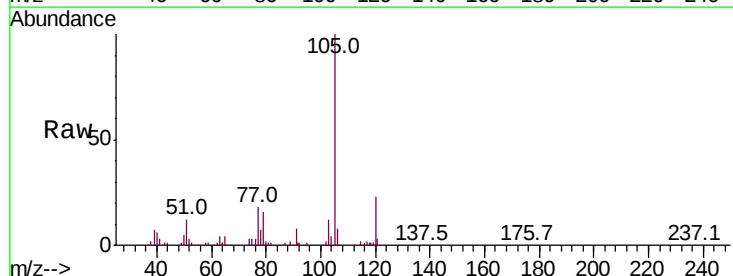
RT: 14.82 min Scan# 3696

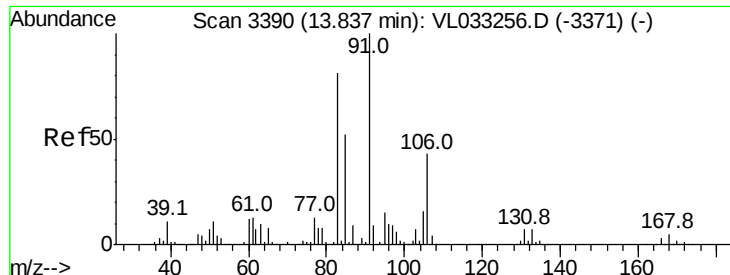
Delta R.T. -0.00 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Tgt Ion:	105	Resp:	187539
Ion Ratio	Lower	Upper	
105	100		
120	0.0	19.7	29.5#





#63

1,1,2,2-Tetrachloroethane

Concen: 0.652 ppbv

RT: 13.83 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 83 Resp: 113685

Ion Ratio Lower Upper

83 100

131 10.0 4.7 14.0

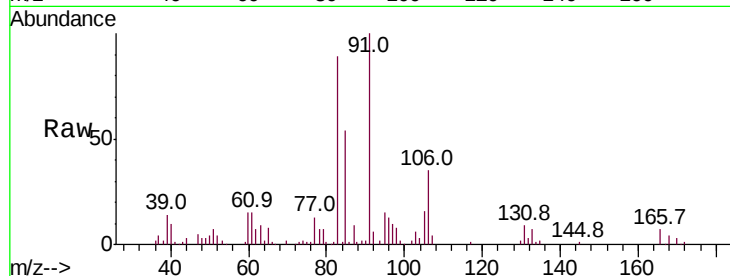
85 64.4 32.4 97.0

Manual Integrations

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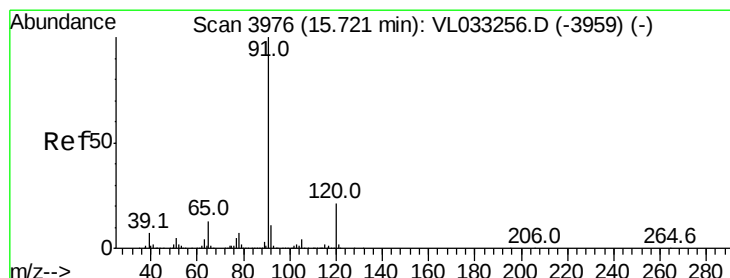
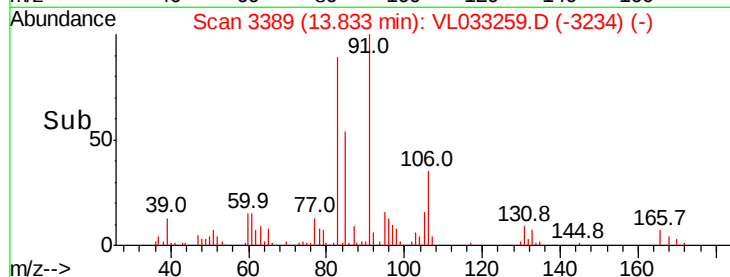
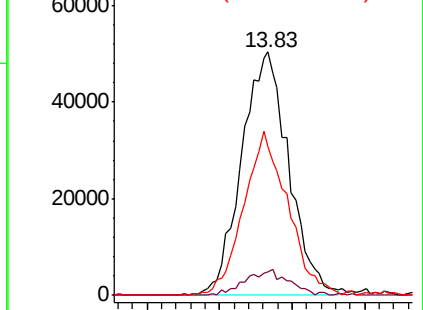


Abundance

Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 0.505 ppbv

RT: 15.72 min Scan# 3977

Delta R.T. 0.00 min

Lab File: VL033259.D

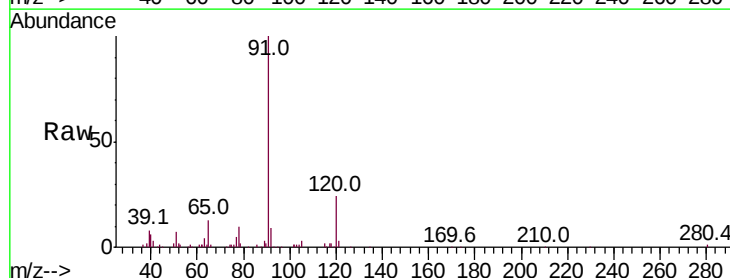
Acq: 8 Mar 2019 14:41

Tgt Ion:120 Resp: 42770

Ion Ratio Lower Upper

120 100

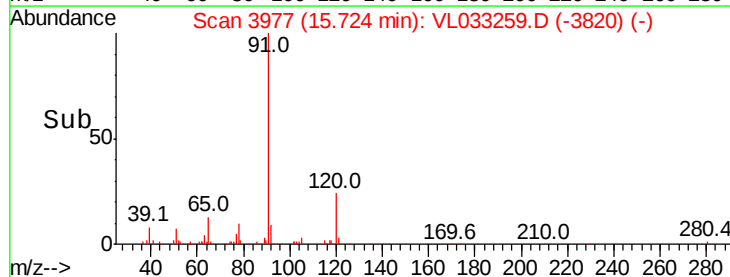
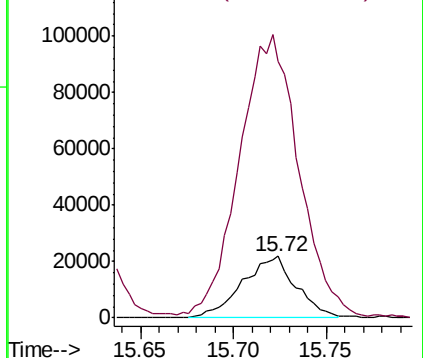
91 524.3 392.8 589.2

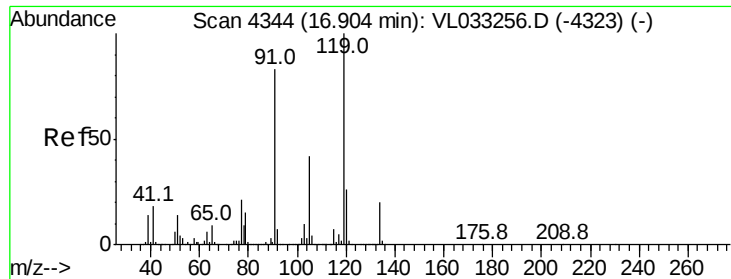


Abundance

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 0.526 ppbv

RT: 16.90 min Scan# 4344

Delta R.T. 0.00 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Instrument :

MSVOA_L

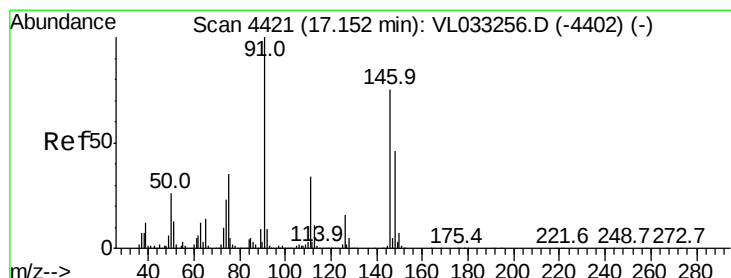
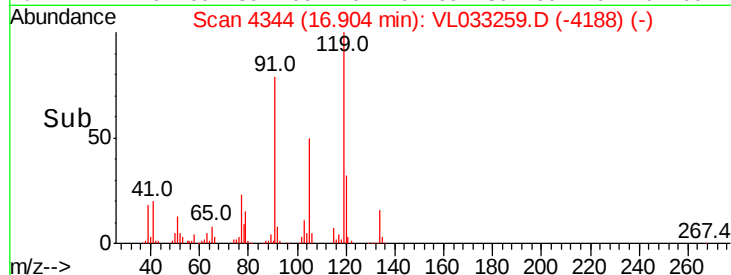
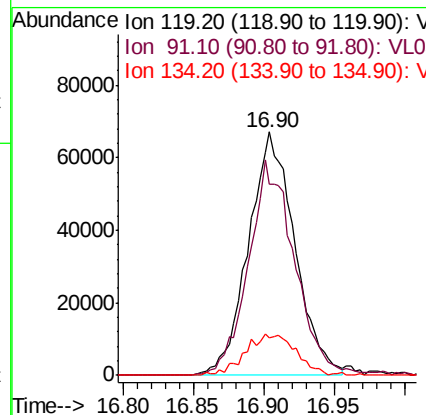
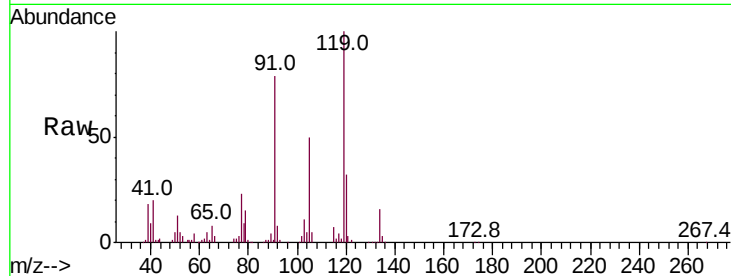
ClientSampleId :

VSTDIC0.5

Tot Ion:	119	Resp:	153338
Ion Ratio	Lower	Upper	
119	100		
91	88.7	67.3	100.9
134	18.9	15.5	23.3

Manual Integrations
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#66

Benzyl Chloride

Concen: 0.320 ppbv

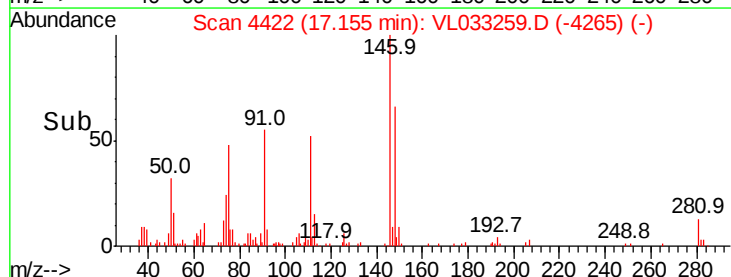
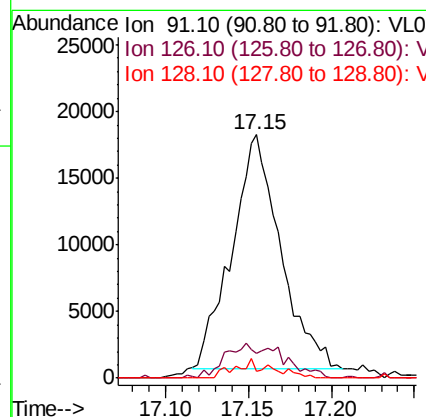
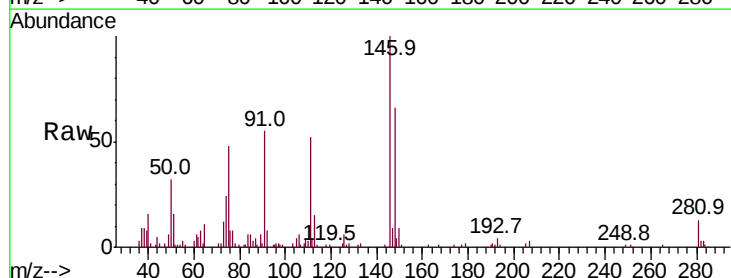
RT: 17.15 min Scan# 4422

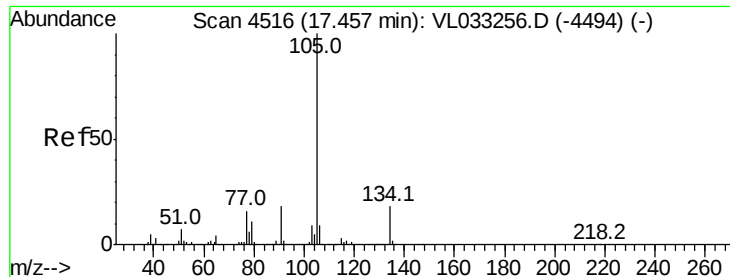
Delta R.T. 0.00 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Tgt Ion:	91	Resp:	36090
Ion Ratio	Lower	Upper	
91	100		
126	17.7	13.0	19.6
128	5.9	4.2	6.2





#67

sec-Butylbenzene

Concen: 0.520 ppbv m

RT: 17.46 min Scan# 4517

Delta R.T. 0.00 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion:105 Resp: 216440

Ion Ratio Lower Upper

105 100

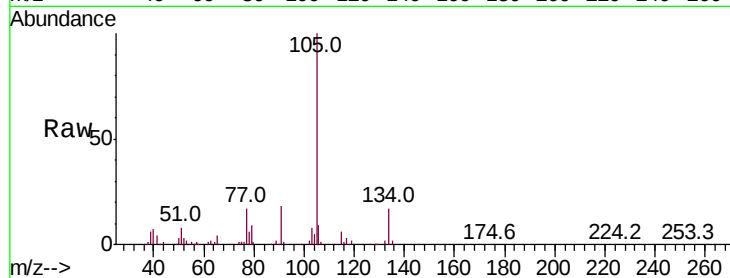
134 18.4 14.0 21.0

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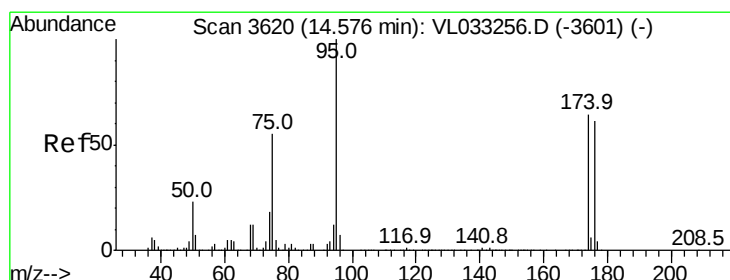
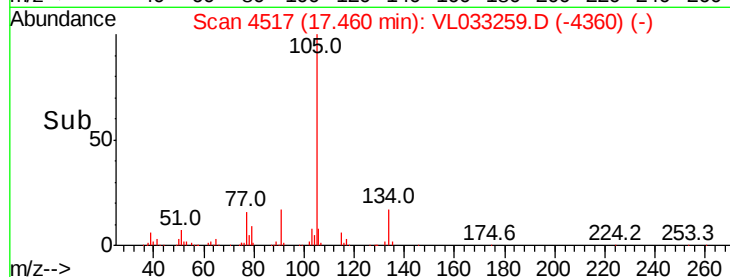
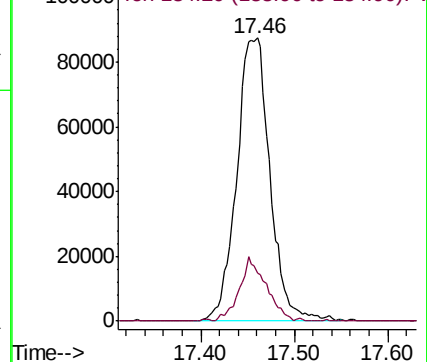
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 11.481 ppbv

RT: 14.57 min Scan# 3618

Delta R.T. -0.01 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

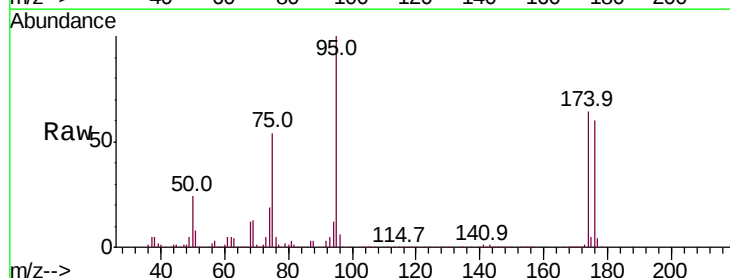
Tgt Ion: 95 Resp: 1899831

Ion Ratio Lower Upper

95 100

174 63.5 51.7 77.5

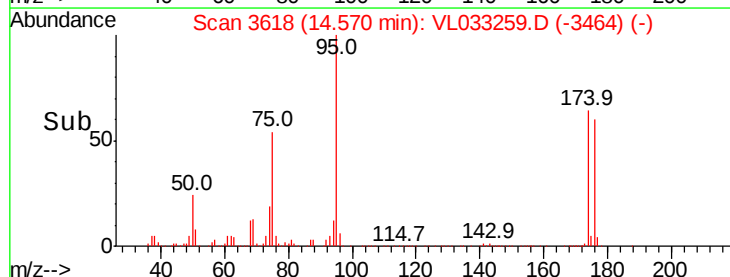
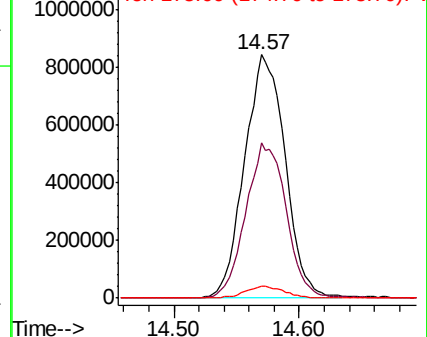
175 4.7 3.8 5.8

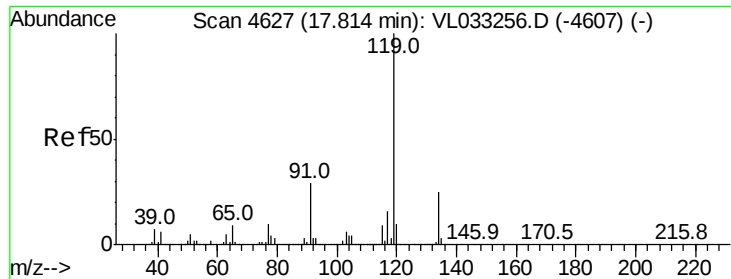


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





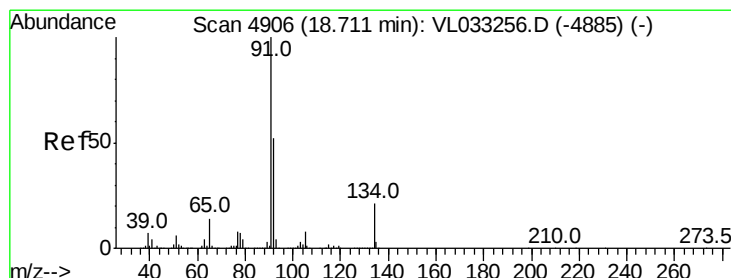
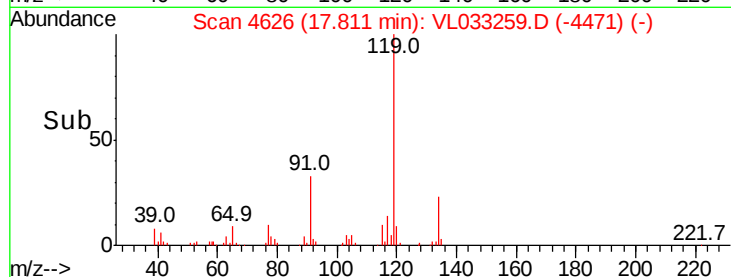
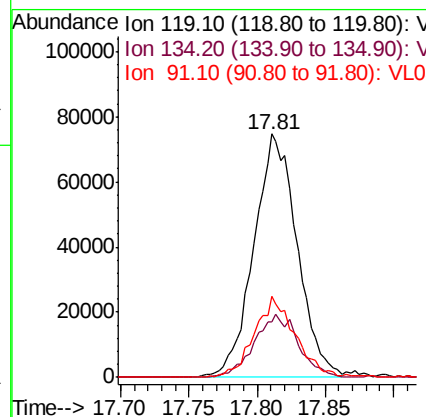
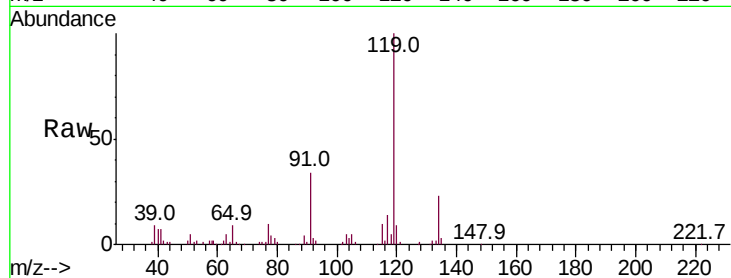
#69
p-Isopropyltoluene
Concen: 0.491 ppbv
RT: 17.81 min Scan# 4626
Delta R.T. -0.00 min
Lab File: VL033259.D
Acq: 8 Mar 2019 14:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
119	100	164972		
134	26.2		19.8	29.8
91	31.8		23.9	35.9

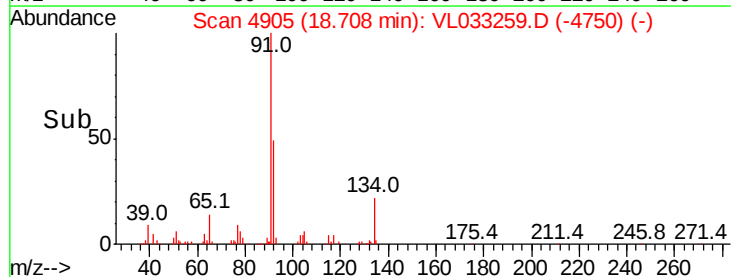
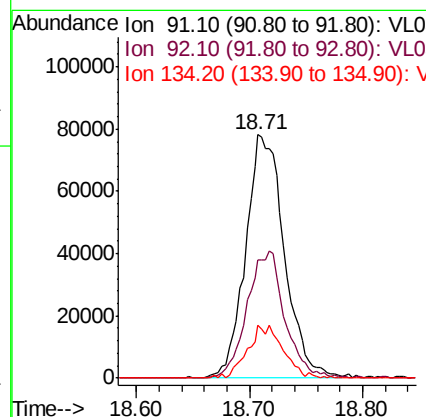
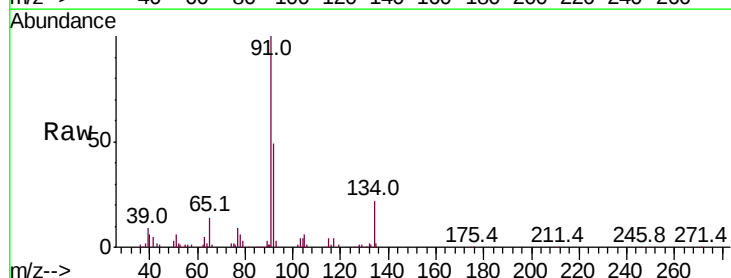
Manual Integrations
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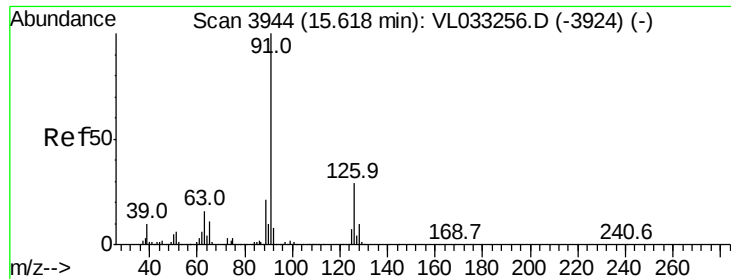
MMDadoda
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#70
n-Butylbenzene
Concen: 0.505 ppbv
RT: 18.71 min Scan# 4905
Delta R.T. -0.00 min
Lab File: VL033259.D
Acq: 8 Mar 2019 14:41

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	186034		
92	51.0		42.6	63.8
134	19.8		17.3	25.9





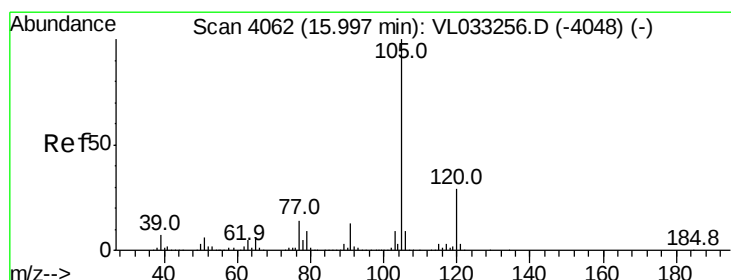
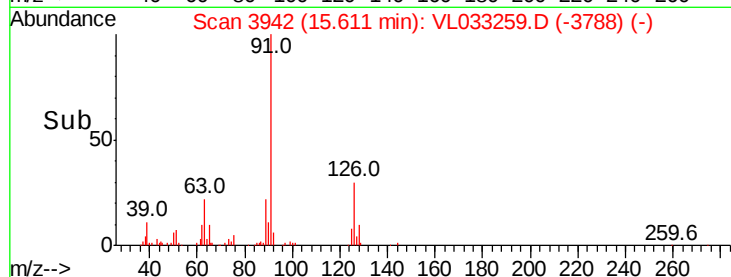
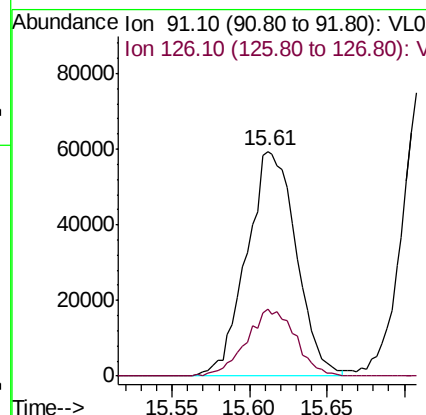
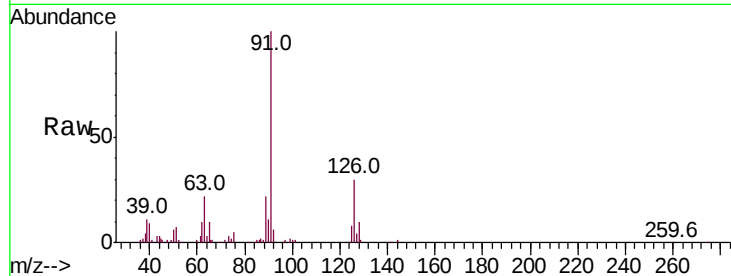
#71
 2-Chlorotoluene
 Concen: 0.508 ppbv
 RT: 15.61 min Scan# 3942
 Delta R.T. -0.01 min
 Lab File: VL033259.D
 Acq: 8 Mar 2019 14:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion: 91 Resp: 132644
 Ion Ratio Lower Upper
 91 100
 126 29.4 11.7 46.9

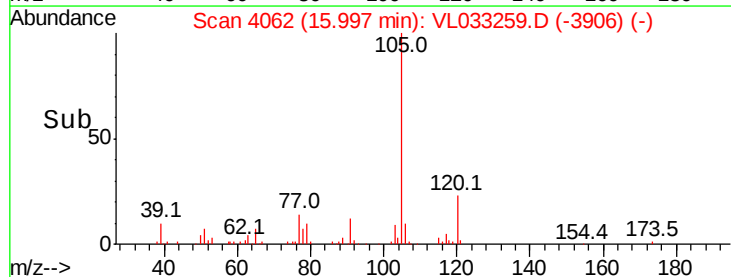
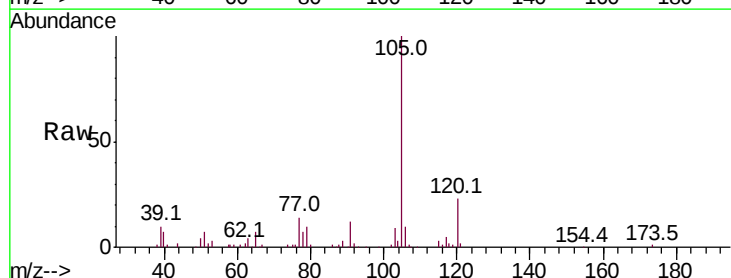
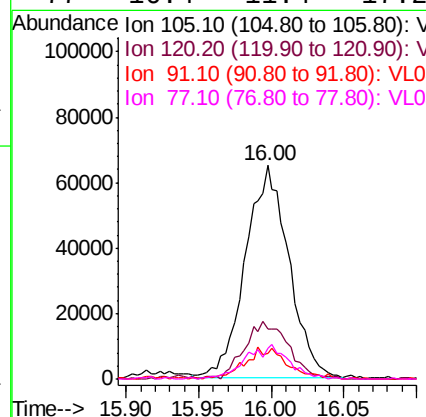
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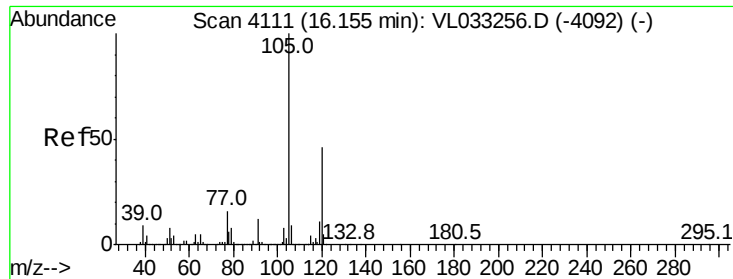
MMDadoda
 3/11/2019 10:10:14 AM



#72
 4-Ethyltoluene
 Concen: 0.500 ppbv
 RT: 16.00 min Scan# 4062
 Delta R.T. 0.00 min
 Lab File: VL033259.D
 Acq: 8 Mar 2019 14:41

Tgt Ion: 105 Resp: 134011
 Ion Ratio Lower Upper
 105 100
 120 27.7 22.9 34.3
 91 14.8 10.4 15.6
 77 16.4 11.4 17.2





#73

1,3,5-Trimethylbenzene

Concen: 0.511 ppbv

RT: 16.15 min Scan# 4110

Delta R.T. -0.00 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion:105 Resp: 131317

Ion Ratio Lower Upper

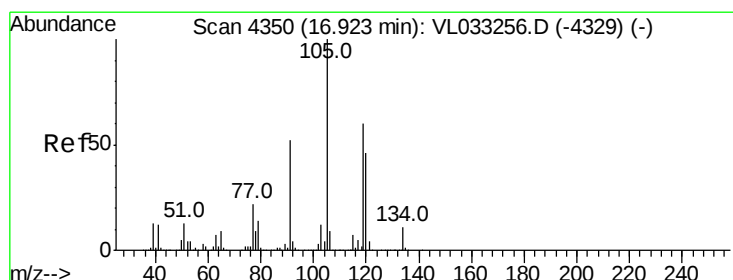
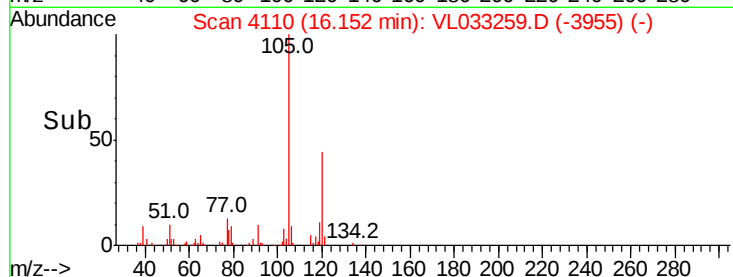
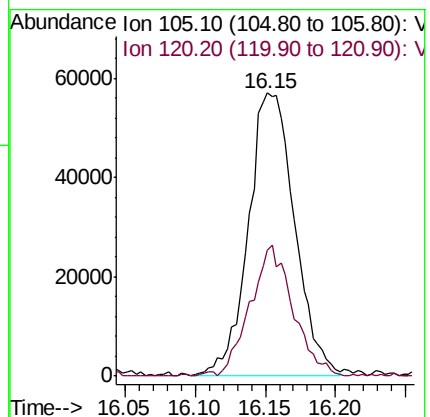
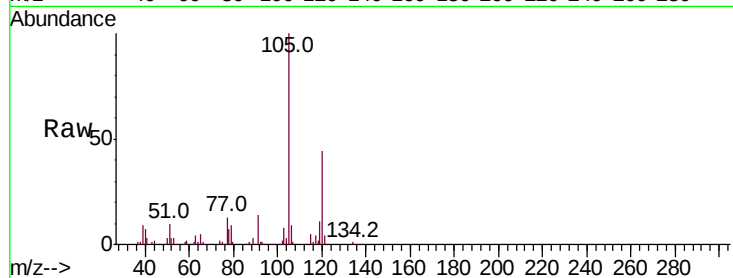
105 100

120 44.3 36.6 55.0

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#74

1,2,4-Trimethylbenzene

Concen: 0.522 ppbv

RT: 16.92 min Scan# 4349

Delta R.T. -0.00 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Tgt Ion:105 Resp: 140934

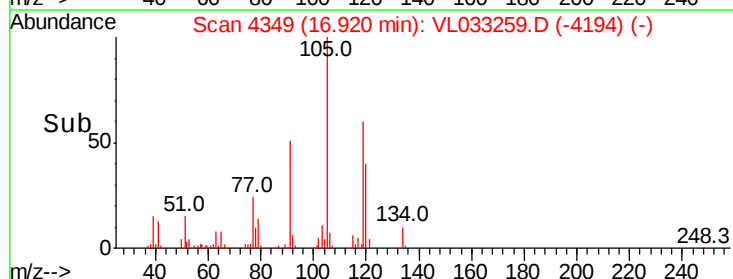
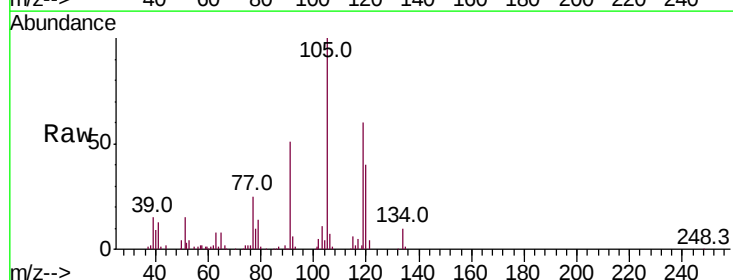
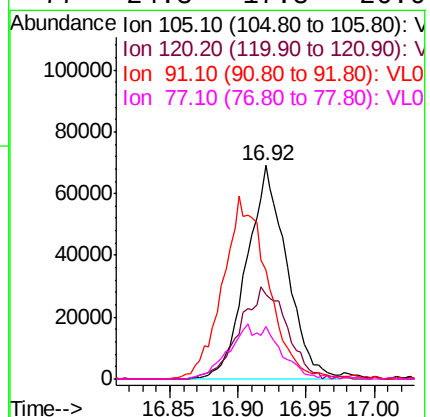
Ion Ratio Lower Upper

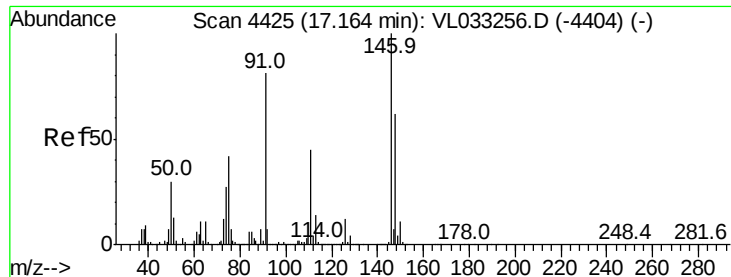
105 100

120 38.9 36.7 55.1

91 49.9 42.1 63.1

77 24.3 17.8 26.6





#75

1,3-Dichlorobenzene

Concen: 0.541 ppbv

RT: 17.16 min Scan# 4424

Delta R.T. -0.00 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Instrument :

MSVOA_L

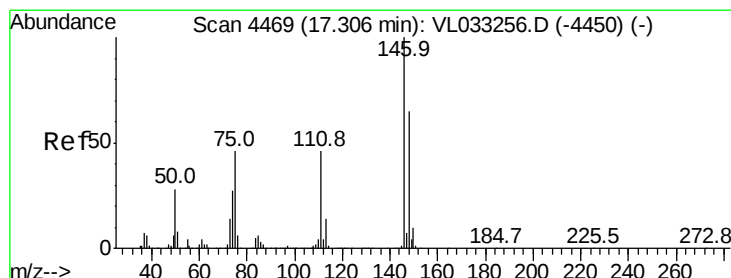
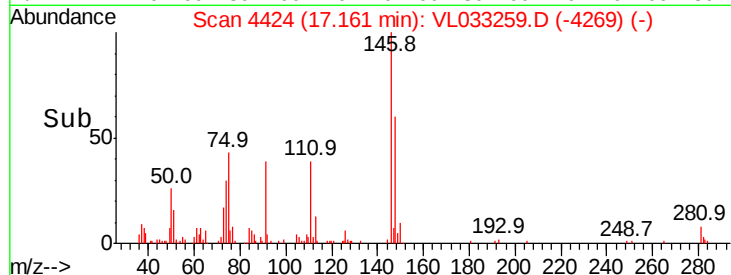
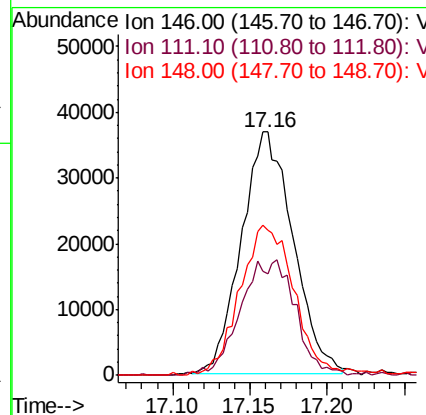
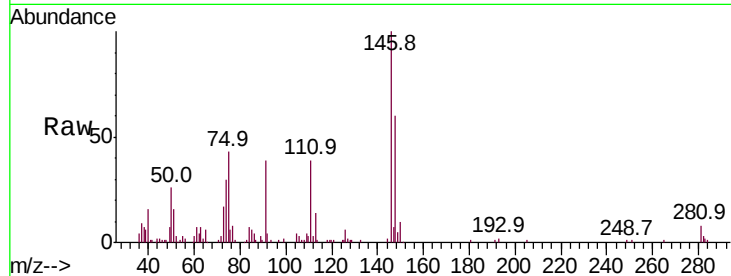
ClientSampleId :

VSTDIC0.5

Tot Ion:	146	Resp:	85583
Ion Ratio	Lower	Upper	
146	100		
111	50.7	22.9	68.7
148	65.7	31.6	94.7

Manual Integrations
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#76

1,4-Dichlorobenzene

Concen: 0.526 ppbv m

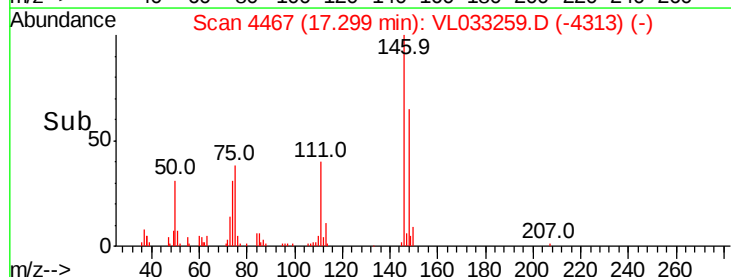
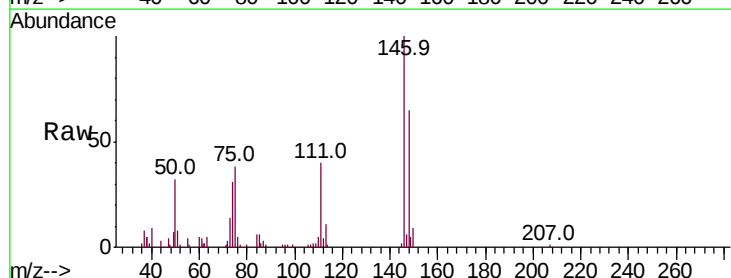
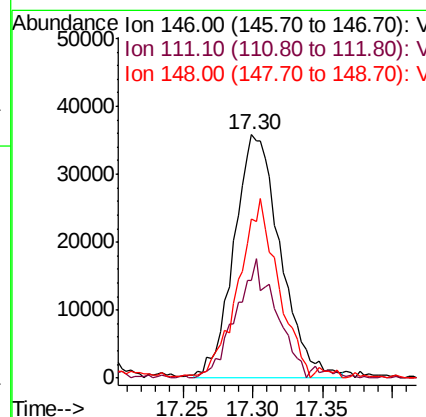
RT: 17.30 min Scan# 4467

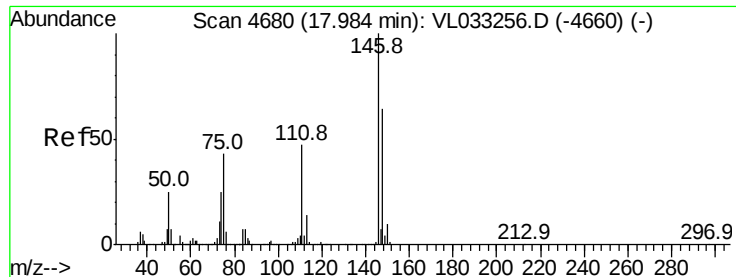
Delta R.T. -0.01 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Tgt Ion:	146	Resp:	82357
Ion Ratio	Lower	Upper	
146	100		
111	44.5	22.6	67.7
148	64.1	32.3	96.9





#77

1,2-Dichlorobenzene

Concen: 0.515 ppbv

RT: 17.99 min Scan# 4681

Delta R.T. 0.00 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Instrument :

MSVOA_L

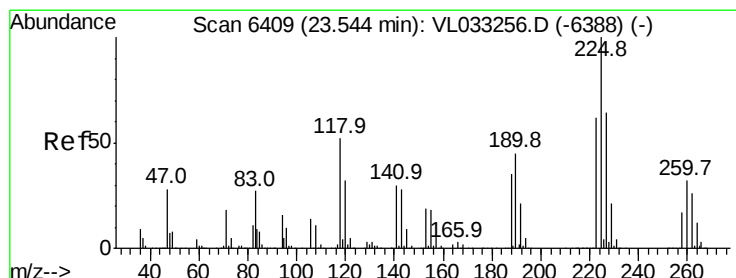
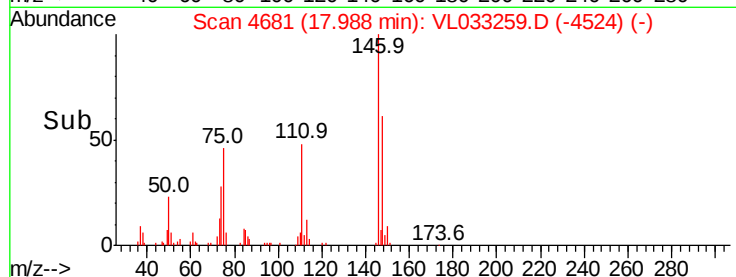
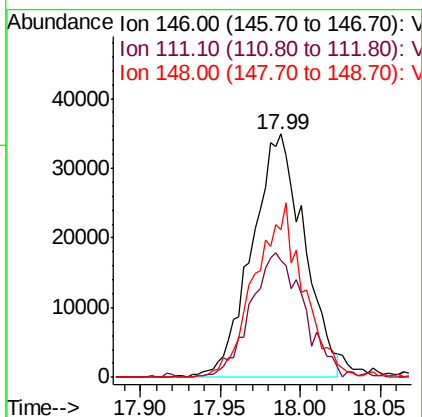
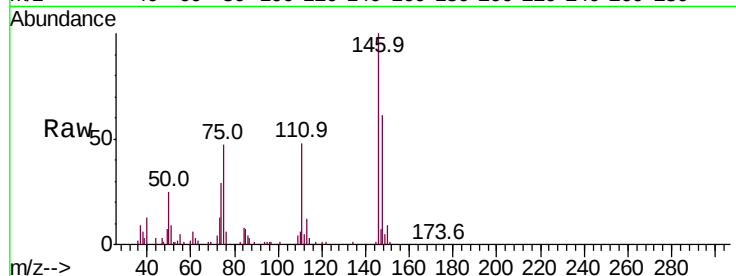
ClientSampleId :

VSTDIC0.5

Tot Ion:	146	Resp:	78976
Ion Ratio	Lower	Upper	
146	100		
111	52.4	23.8	71.2
148	67.2	32.0	96.2

Manual Integrations
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#78

Hexachloro-1,3-Butadiene

Concen: 0.592 ppbv

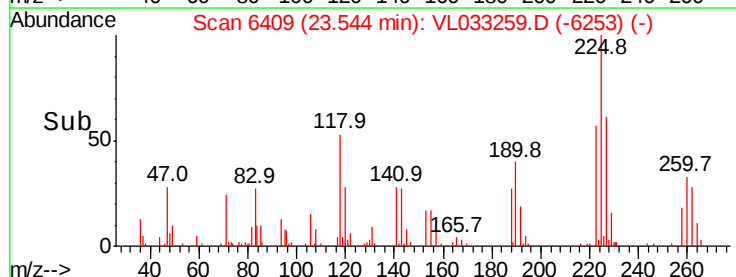
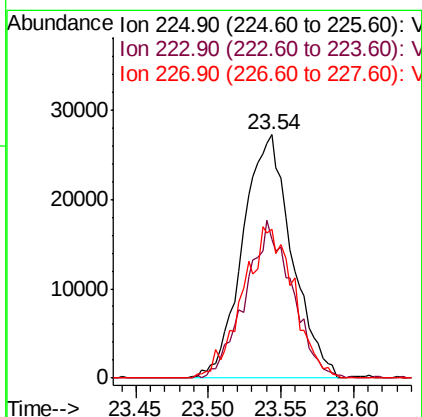
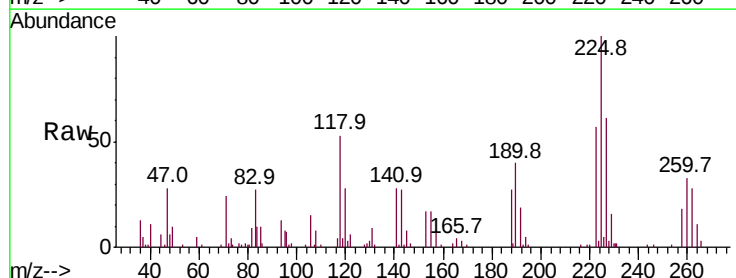
RT: 23.54 min Scan# 6409

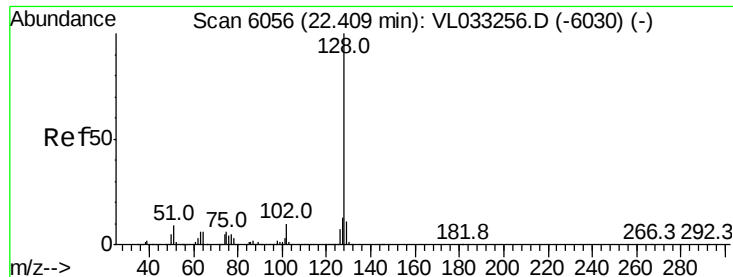
Delta R.T. 0.00 min

Lab File: VL033259.D

Acq: 8 Mar 2019 14:41

Tgt Ion:	225	Resp:	64276
Ion Ratio	Lower	Upper	
225	100		
223	61.3	50.4	75.6
227	64.1	51.4	77.0





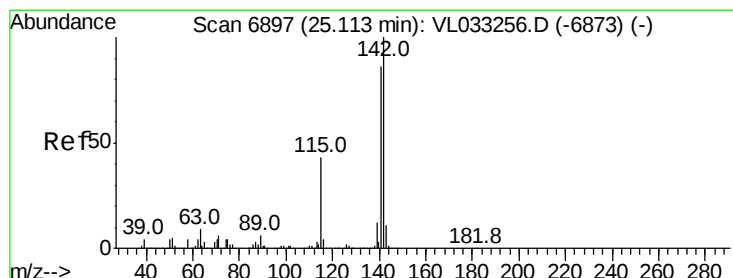
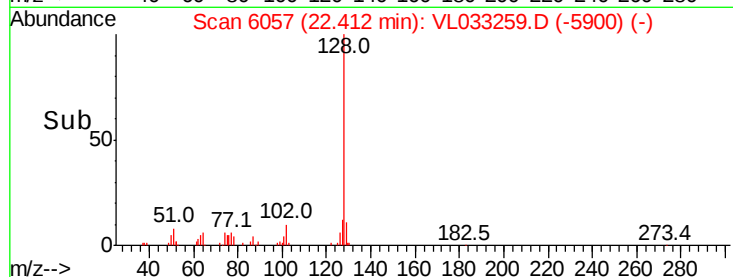
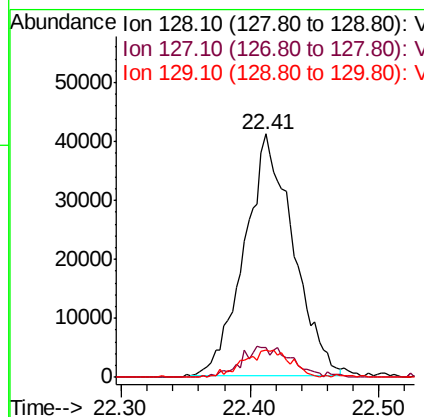
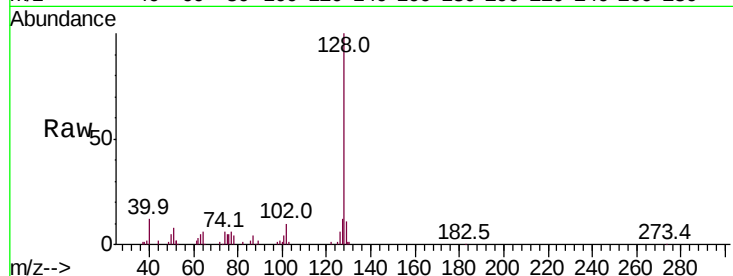
#79
Naphthalene
Concen: 0.324 ppbv
RT: 22.41 min Scan# 6057
Delta R.T. 0.00 min
Lab File: VL033259.D
Acq: 8 Mar 2019 14:41

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
128	100		
127	11.8	10.3	15.5
129	12.3	8.6	13.0

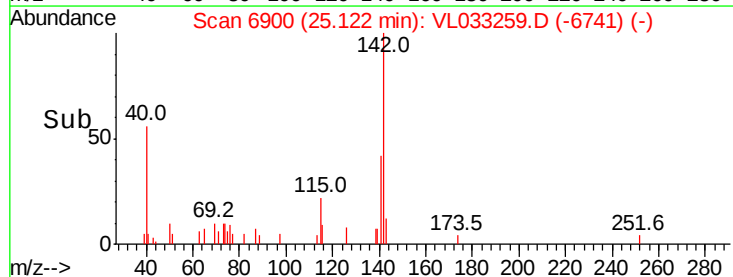
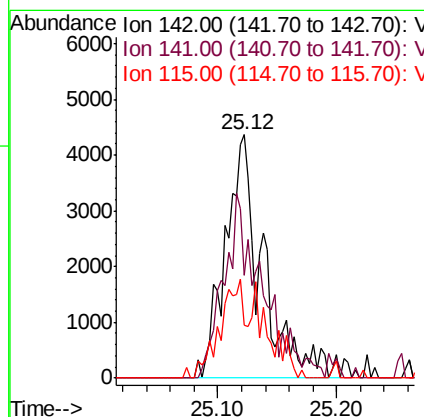
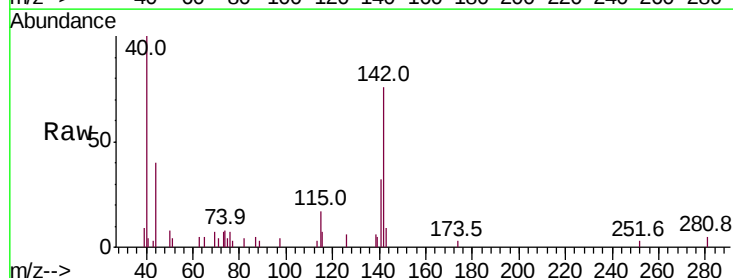
Manual Integrations
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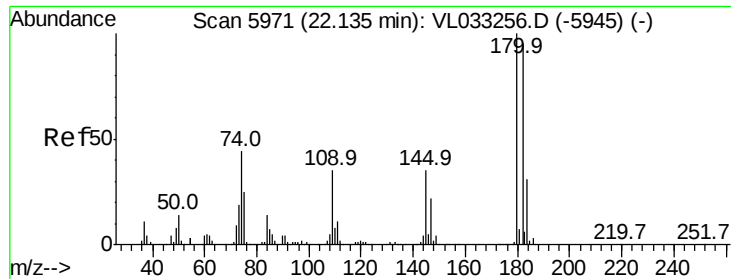
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#80
Naphthalene, 2-methyl-
Concen: 0.096 ppbv
RT: 25.12 min Scan# 6900
Delta R.T. 0.01 min
Lab File: VL033259.D
Acq: 8 Mar 2019 14:41

Tgt Ion	Ratio	Lower	Upper
142	100		
141	80.7	67.6	101.4
115	45.8	33.9	50.9





#81
 1,2,4-Trichlorobenzene
 Concen: 0.407 ppbv m
 RT: 22.14 min Scan# 5971
 Delta R.T. 0.00 min
 Lab File: VL033259.D
 Acq: 8 Mar 2019 14:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
180	100	67623		
182	98.1		76.3	114.5
184	32.2		24.6	36.8

Manual Integrations
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MMDadoda
 3/11/2019 10:10:14 AM

