

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052819\
 Data File : VL033800.D
 Acq On : 28 May 2019 11:08
 Operator : SY/AP
 Sample : VL0528ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VL0528ABS01

Manual Integrations
 APPROVED

apatel
 5/29/2019 12:39:53 PM

Quant Time: May 29 04:49:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 1
 QLast Update : Fri May 17 08:15:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	936501	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2269906	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2396549	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1884821	9.70	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.07	85	1494241	7.571 ppbv	98
3) Chlorodifluoromethane	3.01	51	991318	9.241 ppbv	100
4) Chloromethane	3.17	50	588807	9.597 ppbv	98
5) Vinyl Chloride	3.29	62	584546	9.353 ppbv	100
6) Bromomethane	3.51	94	366607	9.613 ppbv	93
7) Chloroethane	3.60	64	221837	9.987 ppbv	98
8) Dichlorotetrafluoroethane	3.22	85	1508811	9.482 ppbv	100
9) Propene	3.03	41	434298	9.518 ppbv	100
10) Heptane	8.24	43	1223213	9.467 ppbv	99
11) Trichlorofluoromethane	4.00	101	1746196	9.270 ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.54	101	1186075	9.017 ppbv	99
13) Ethanol	3.65	45	97846	6.635 ppbv	99
14) Bromoethene	3.78	108	482070	9.969 ppbv	99
15) Acetone	3.89	43	1090168	8.390 ppbv	99
16) 1,3-Butadiene	3.36	39	514507	9.944 ppbv	99
17) tert-Butyl alcohol	4.35	59	1057944	10.069 ppbv	100
18) 1,1-Dichloroethene	4.35	96	526373	9.481 ppbv	98
19) Isopropyl Alcohol	4.02	45	790022	9.430 ppbv	99
20) Methylene Chloride	4.40	84	444222	8.879 ppbv	97
21) Allyl Chloride	4.47	41	747463	9.223 ppbv	100
22) trans-1,2-Dichloroethene	4.96	96	538396	9.461 ppbv	98
23) Vinyl Acetate	5.15	43	1680240	9.808 ppbv	99
24) 1,1-Dichloroethane	5.08	63	1207721	9.274 ppbv	99
25) Ethyl Acetate	5.76	43	2127750	9.322 ppbv	100
26) Hexane	5.77	57	942807	9.608 ppbv	100
27) Carbon Disulfide	4.61	76	1302689	9.677 ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	1563927	9.777 ppbv	99
29) Chloroform	5.84	83	1616496	8.943 ppbv	97
30) Cyclohexane	7.24	84	805585	9.765 ppbv	100
31) cis-1,2-Dichloroethene	5.63	61	937317	9.634 ppbv	97
32) 1,1,1-Trichloroethane	6.62	97	1602533	8.879 ppbv	99
34) 2-Butanone	5.32	43	1345609	9.564 ppbv	100
35) Carbon Tetrachloride	7.13	117	1718257	9.450 ppbv	99
36) Benzene	7.00	78	1901753	9.210 ppbv	98
37) 1,2-Dichloroethane	6.41	62	1201475	9.020 ppbv	100
38) Trichloroethene	7.96	130	818667	10.685 ppbv	98
39) 1,2-Dichloropropane	7.73	63	742720	9.648 ppbv	97
40) 1,4-Dioxane	7.95	88	302840	9.404 ppbv #	100
41) Tetrahydrofuran	6.14	42	753805	9.562 ppbv	99
42) Bromodichloromethane	7.91	83	1784216	9.785 ppbv	98
43) Methyl Methacrylate	8.13	69	800797	10.538 ppbv	98

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Manual Integrations
 APPROVED

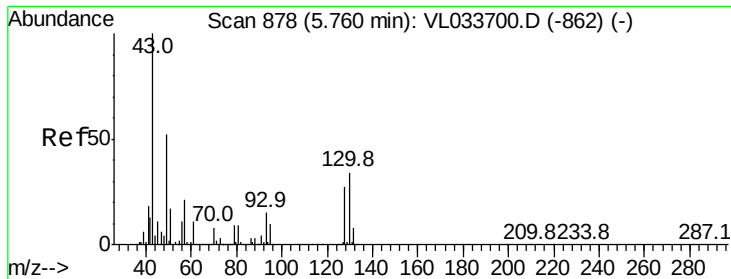
apatel
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Quant Time: May 29 04:49:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 1
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 Response via : Initial Calibration

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

44) 2,2,4-Trimethylpentane	7.98	57	3356409	9.618	ppbv	100
45) t-1,3-Dichloropropene	9.41	75	1026102	10.651	ppbv	98
46) cis-1,3-Dichloropropene	8.83	75	1162299	10.304	ppbv	97
47) 1,1,2-Trichloroethane	9.61	97	819194	9.367	ppbv	98
48) Dibromochloromethane	10.44	129	1521527	10.041	ppbv	99
49) Bromoform	13.20	173	1402608	11.001	ppbv	100
50) 4-Methyl-2-Pentanone	8.86	43	2056395	9.502	ppbv	100
51) 2-Hexanone	10.26	43	1708271	10.114	ppbv #	100
52) Tetrachloroethene	11.36	164	751074	10.348	ppbv	98
53) Toluene	9.94	91	2326266	10.445	ppbv	100
54) 1,2-Dibromoethane	10.75	107	1296408	9.714	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.27	131	1012473	9.130	ppbv	97
57) Chlorobenzene	12.29	112	1768255	8.964	ppbv	99
58) Ethyl Benzene	12.86	91	3272961	10.313	ppbv	100
59) m/p-Xylene	13.15	91	5450057m	19.645	ppbv	
60) o-Xylene	13.84	91	2668888	9.543	ppbv	99
61) Styrene	13.68	104	2006462	10.656	ppbv	100
62) Isopropylbenzene	14.82	105	3719180	9.875	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	1868643m	9.188	ppbv	
64) n-propylbenzene	15.71	120	975229	10.011	ppbv	99
65) tert-Butylbenzene	16.90	119	3399673	9.887	ppbv	100
66) Benzyl Chloride	17.15	91	1731108	10.570	ppbv	100
67) sec-Butylbenzene	17.45	105	4771979	9.915	ppbv	100
69) p-Isopropyltoluene	17.81	119	3977132	9.998	ppbv	100
70) n-Butylbenzene	18.71	91	4179541	9.798	ppbv	100
71) 2-Chlorotoluene	15.61	91	2852677	10.209	ppbv	100
72) 4-Ethyltoluene	15.99	105	3389616	10.601	ppbv	99
73) 1,3,5-Trimethylbenzene	16.15	105	3330543	10.675	ppbv	97
74) 1,2,4-Trimethylbenzene	16.92	105	3282067	9.666	ppbv	99
75) 1,3-Dichlorobenzene	17.16	146	1925515	9.255	ppbv	99
76) 1,4-Dichlorobenzene	17.30	146	1897905	9.598	ppbv	99
77) 1,2-Dichlorobenzene	17.98	146	1843829	9.431	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	1062122	7.186	ppbv	99
79) Naphthalene	22.40	128	2470499	7.834	ppbv	98
80) Naphthalene, 2-methyl-	25.11	142	647705	5.405	ppbv	95
81) 1,2,4-Trichlorobenzene	22.13	180	1449771	7.851	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.00 min

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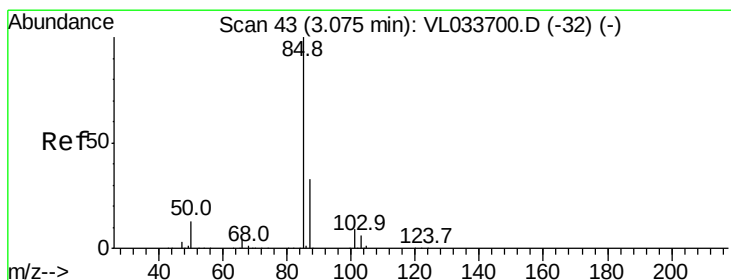
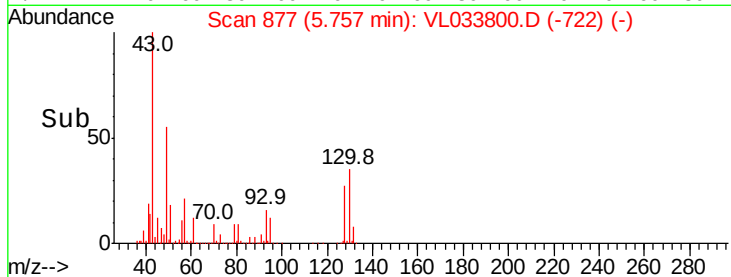
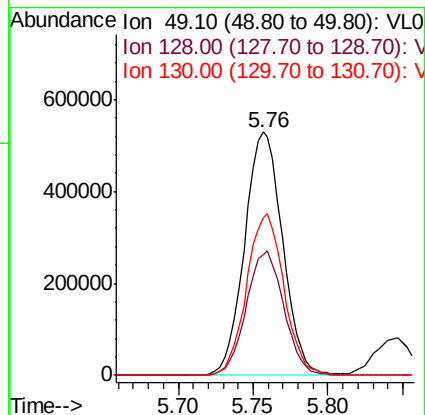
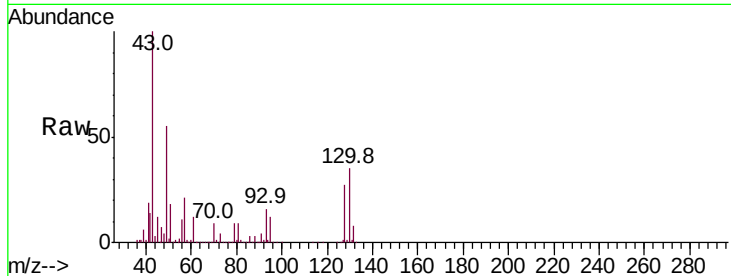
ClientSampleId :

VL0528ABS01

Tot Ion:	49	Resp:	936501
Ion Ratio	Lower	Upper	
49	100		
128	50.7	25.2	75.6
130	65.4	32.5	97.5

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#2

Dichlorodifluoromethane

Concen: 7.571 ppbv

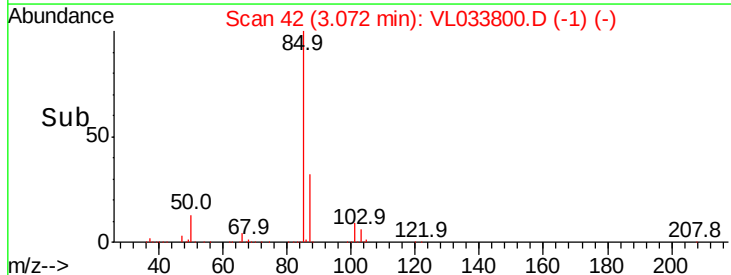
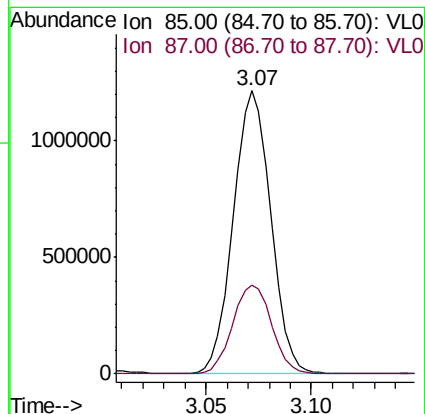
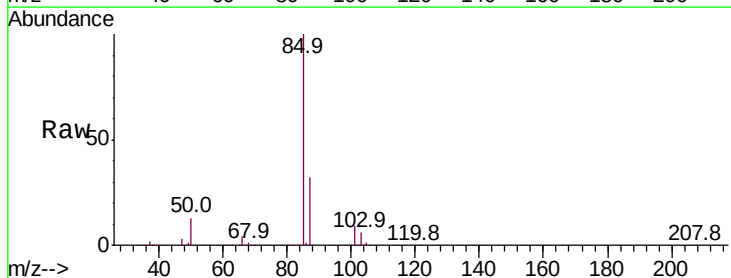
RT: 3.07 min Scan# 42

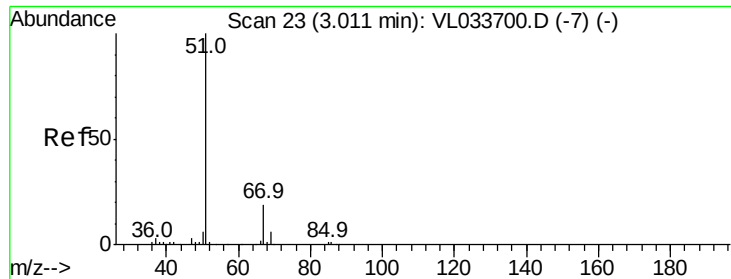
Delta R.T. -0.00 min

Lab File: VL033800.D

Acq: 28 May 2019 11:08

Tgt Ion:	85	Resp:	1494241
Ion Ratio	Lower	Upper	
85	100		
87	31.5	26.3	39.5





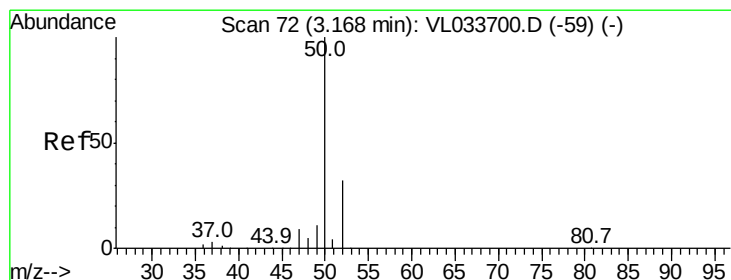
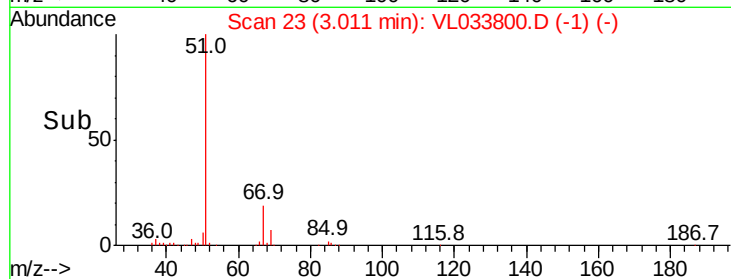
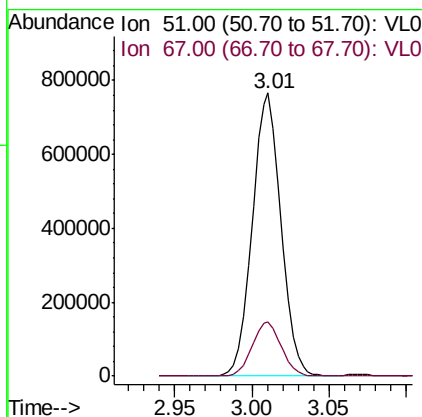
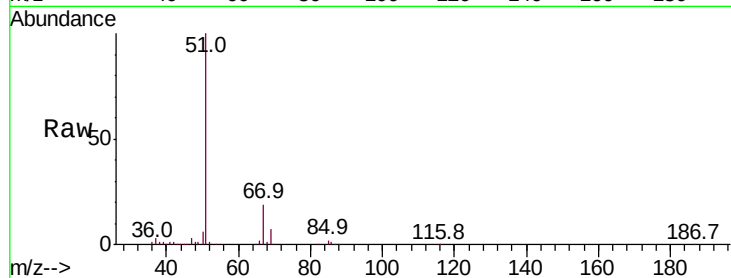
#3
 Chlorodifluoromethane
 Concen: 9.241 ppbv
 RT: 3.01 min Scan# 23
 Delta R.T. 0.00 min
 Lab File: VL033800.D
 Acq: 28 May 2019 11:08

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 ClientSampleId :
 VL0528ABS01

Tot Ion	Ratio	Lower	Upper
51	100		
67	19.4	15.6	23.4

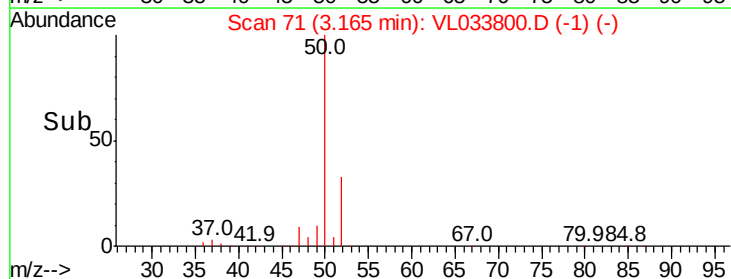
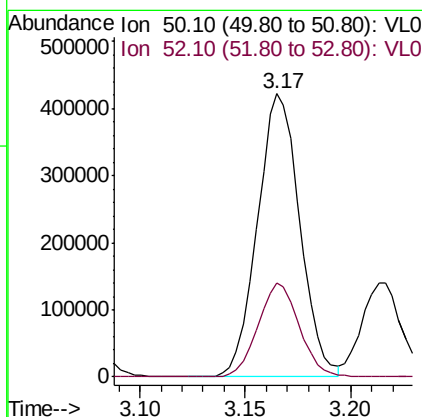
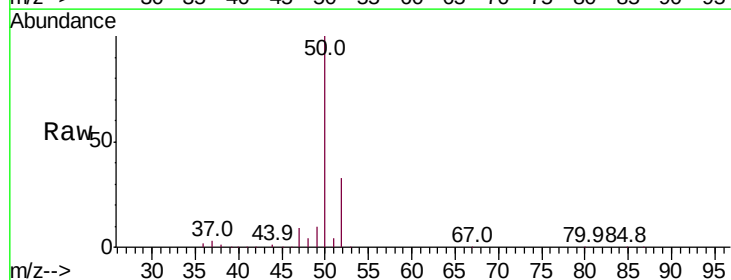
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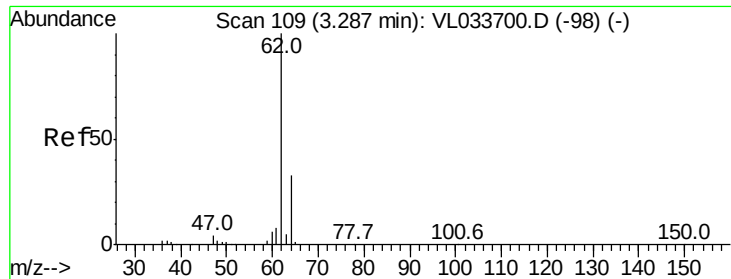
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#4
 Chloromethane
 Concen: 9.597 ppbv
 RT: 3.17 min Scan# 71
 Delta R.T. -0.00 min
 Lab File: VL033800.D
 Acq: 28 May 2019 11:08

Tgt Ion	Ratio	Lower	Upper
50	100		
52	33.0	25.7	38.5





#5

Vinyl Chloride

Concen: 9.353 ppbv

RT: 3.29 min Scan# 109

Delta R.T. 0.00 min

Lab File: VL033800.D

Acq: 28 May 2019 11:08

Instrument :

MSVOA_L

ClientSampleId :

VL0528ABS01

Tot Ion: 62 Resp: 584546

Ion Ratio Lower Upper

62 100

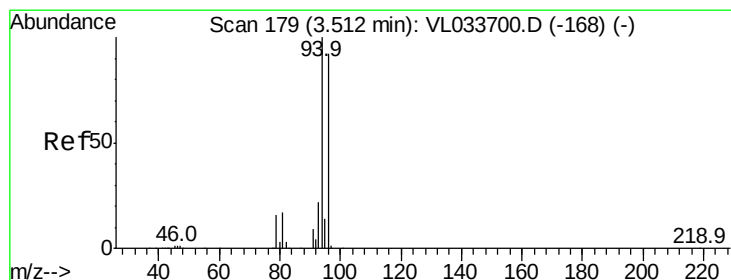
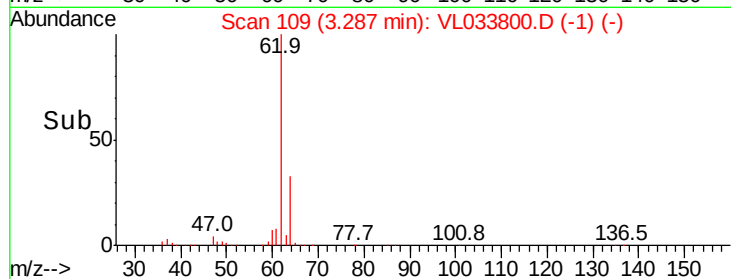
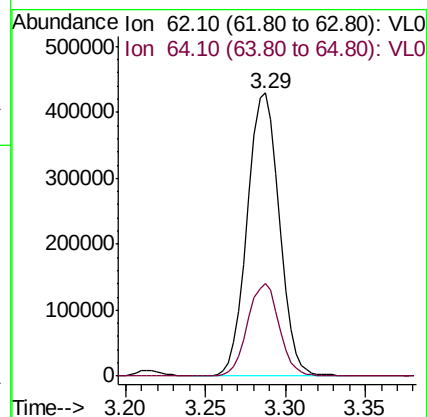
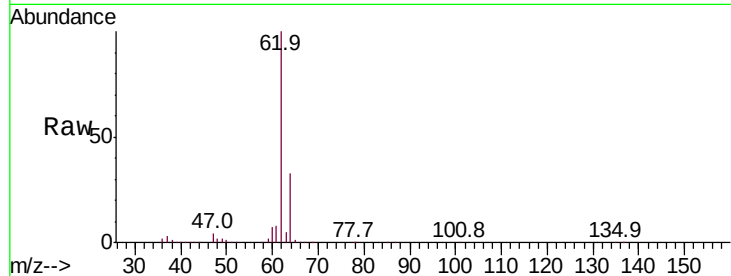
64 32.8 26.4 39.6

Manual Integrations

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#6

Bromomethane

Concen: 9.613 ppbv

RT: 3.51 min Scan# 178

Delta R.T. -0.00 min

Lab File: VL033800.D

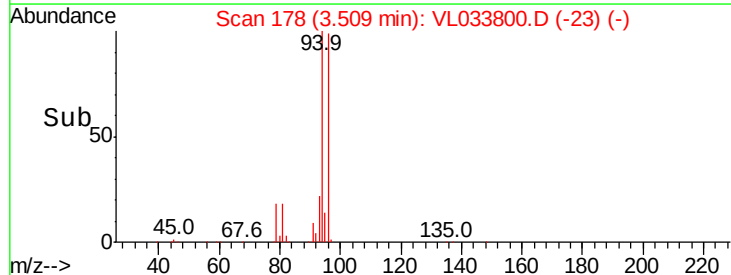
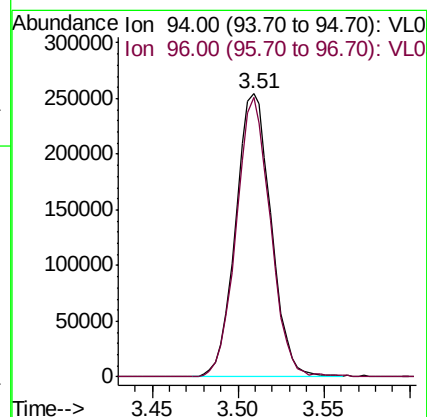
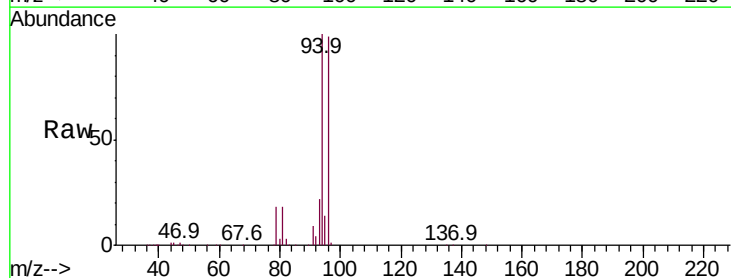
Acq: 28 May 2019 11:08

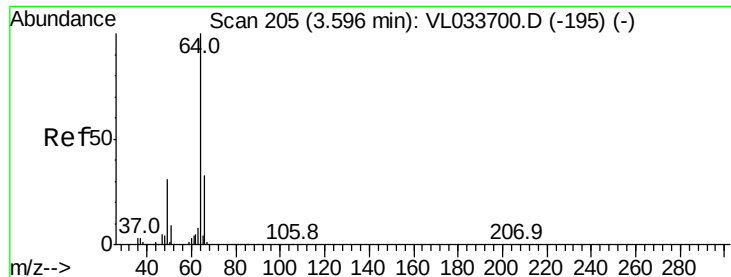
Tgt Ion: 94 Resp: 366607

Ion Ratio Lower Upper

94 100

96 98.7 73.6 110.4





#7

Chloroethane

Concen: 9.987 ppbv

RT: 3.60 min Scan# 205

Delta R.T. 0.00 min

Lab File: VL033800.D

Acq: 28 May 2019 11:08

Instrument :

MSVOA_L

ClientSampleId :

VL0528ABS01

Tot Ion: 64 Resp: 221837

Ion Ratio Lower Upper

64 100

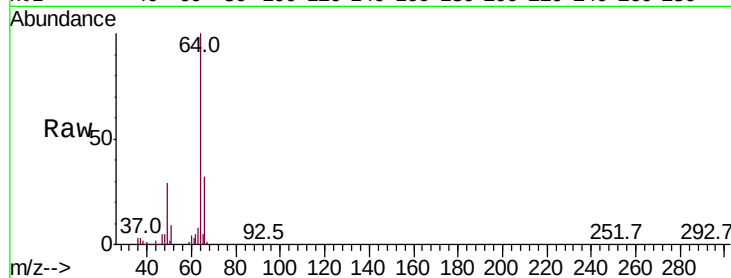
66 31.9 26.6 40.0

Manual Integrations

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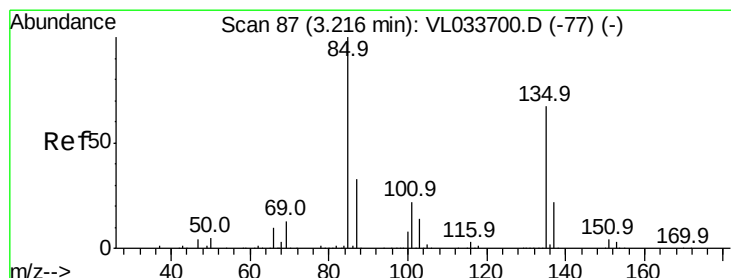
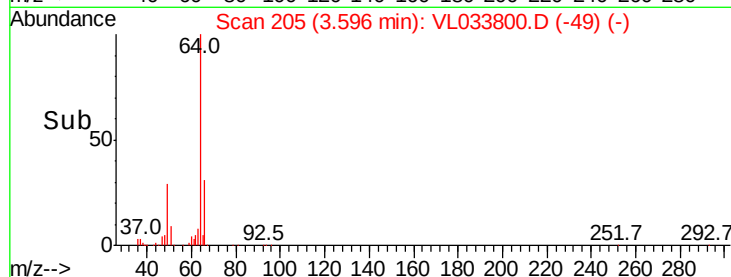
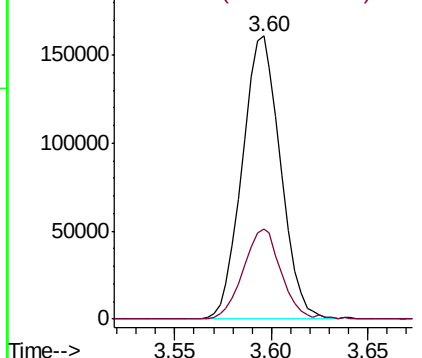
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 9.482 ppbv

RT: 3.22 min Scan# 87

Delta R.T. 0.00 min

Lab File: VL033800.D

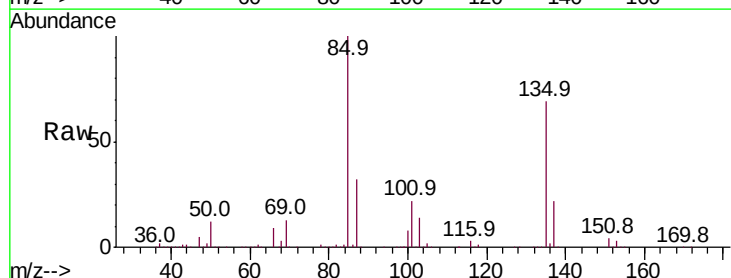
Acq: 28 May 2019 11:08

Tgt Ion: 85 Resp: 1508811

Ion Ratio Lower Upper

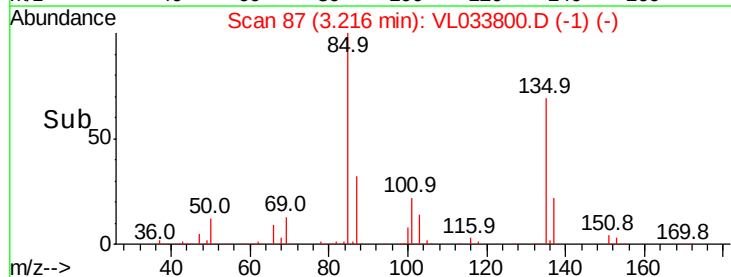
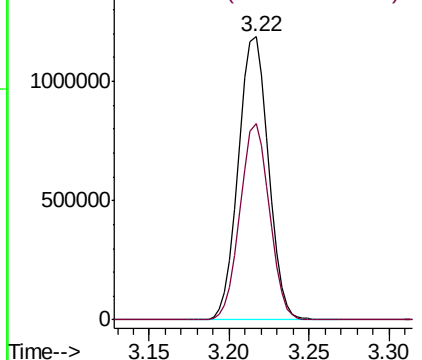
85 100

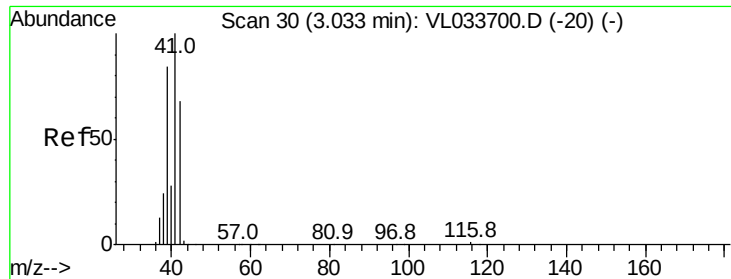
135 68.1 54.5 81.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 9.518 ppbv

RT: 3.03 min Scan# 29

Delta R.T. -0.00 min

Lab File: VL033800.D

Acq: 28 May 2019 11:08

Instrument :

MSVOA_L

ClientSampleId :

VL0528ABS01

Tot Ion: 41 Resp: 434298

Ion Ratio Lower Upper

41 100

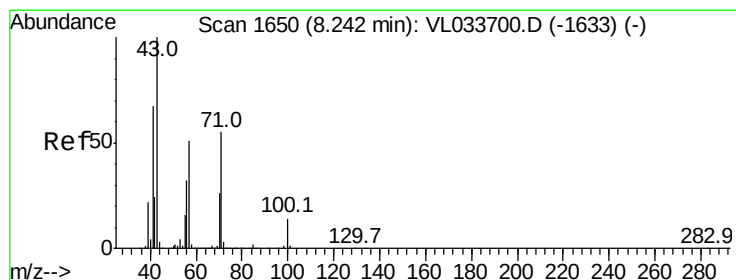
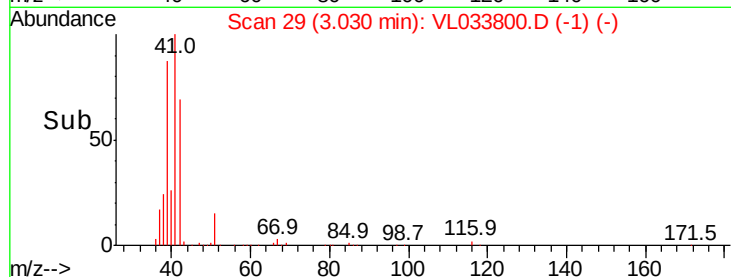
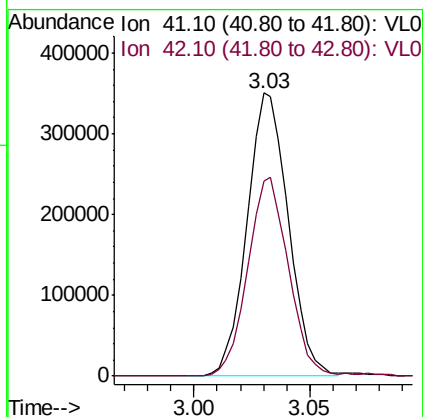
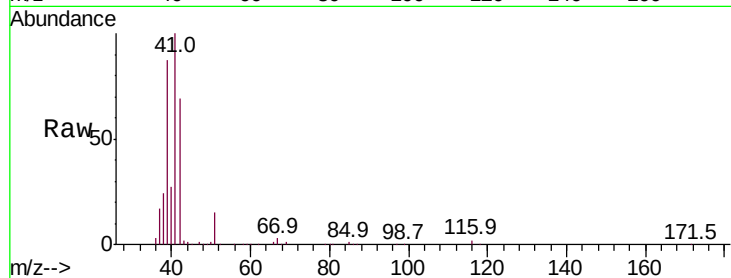
42 70.3 56.1 84.1

Manual Integrations

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#10

Heptane

Concen: 9.467 ppbv

RT: 8.24 min Scan# 1649

Delta R.T. -0.00 min

Lab File: VL033800.D

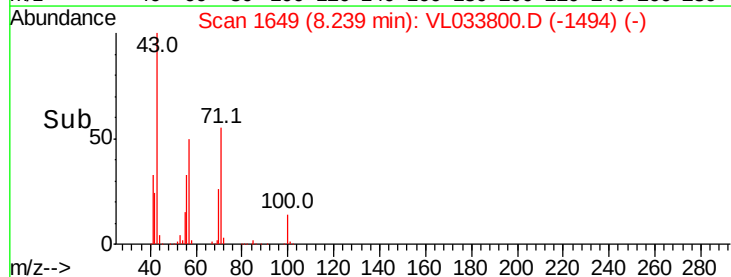
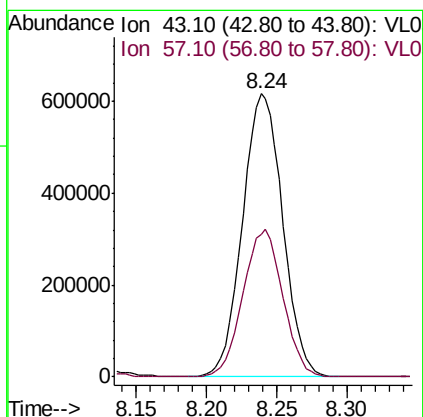
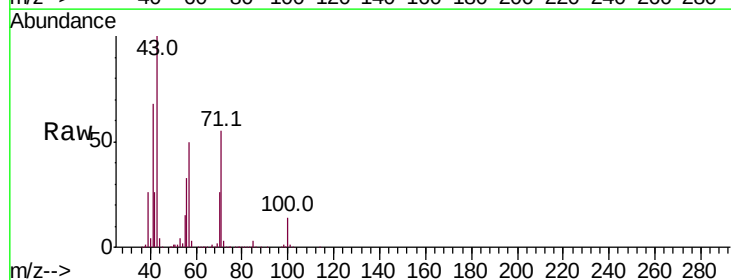
Acq: 28 May 2019 11:08

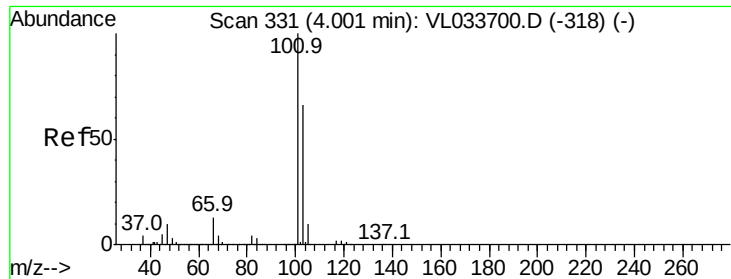
Tgt Ion: 43 Resp: 1223213

Ion Ratio Lower Upper

43 100

57 52.1 41.4 62.0





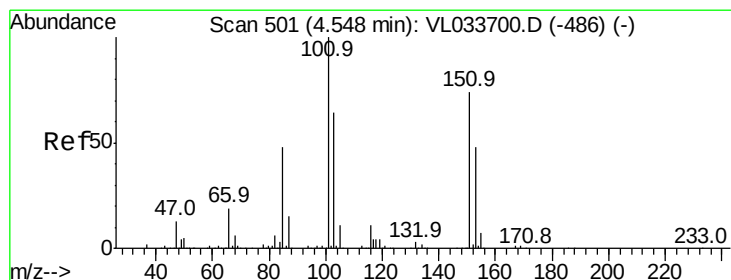
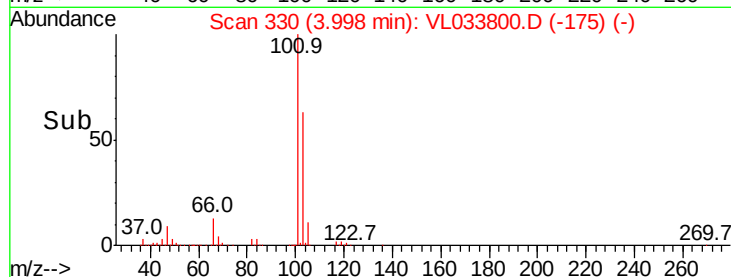
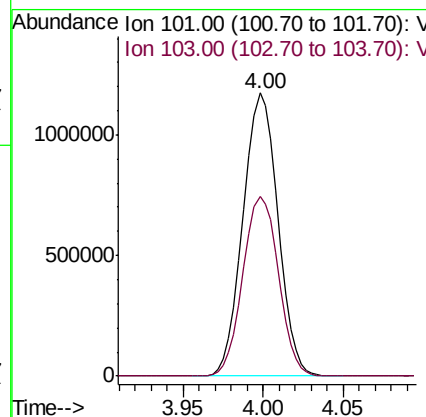
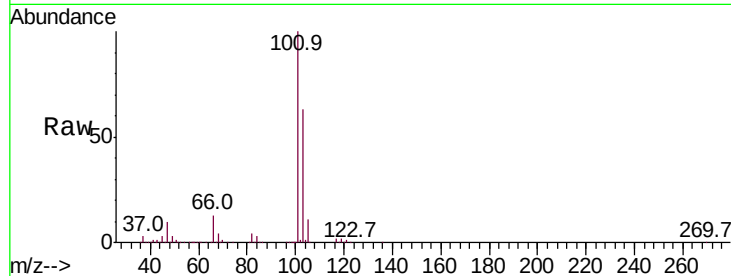
#11
 Trichlorofluoromethane
 Concen: 9.270 ppbv
 RT: 4.00 min Scan# 330
 Delta R.T. -0.00 min
 Lab File: VL033800.D
 Acq: 28 May 2019 11:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0528ABS01

Tot Ion:101 Resp: 1746196
 Ion Ratio Lower Upper
 101 100
 103 63.3 52.6 78.8

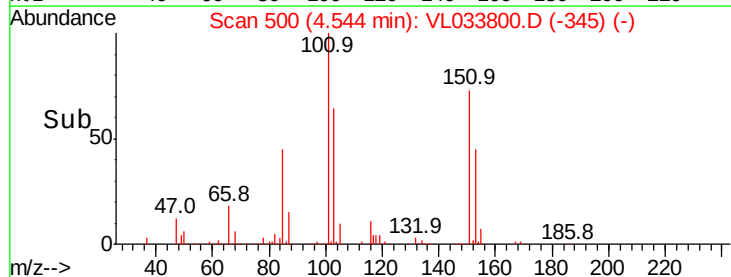
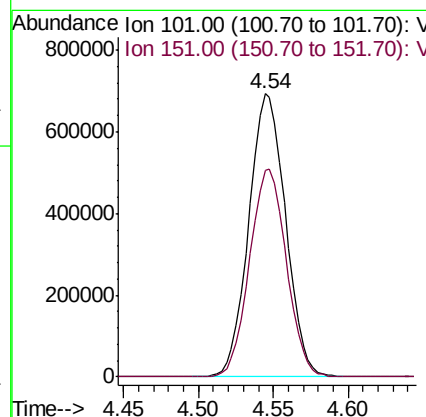
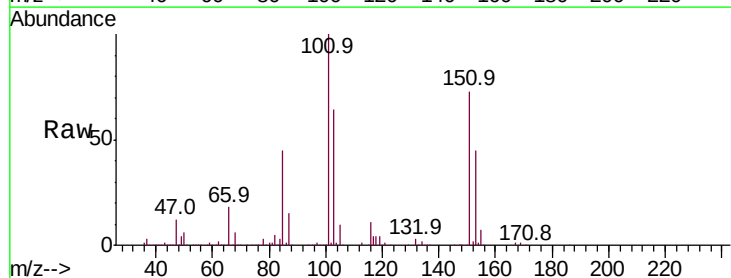
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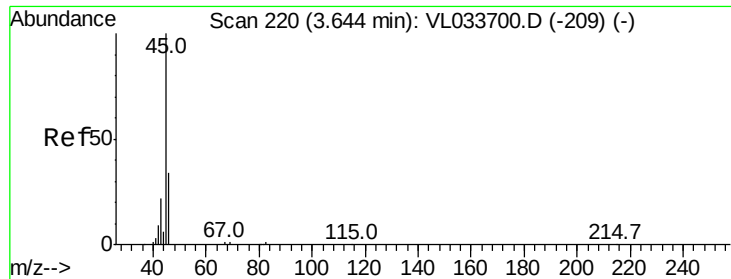
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.017 ppbv
 RT: 4.54 min Scan# 500
 Delta R.T. -0.00 min
 Lab File: VL033800.D
 Acq: 28 May 2019 11:08

Tgt Ion:101 Resp: 1186075
 Ion Ratio Lower Upper
 101 100
 151 73.8 58.2 87.4





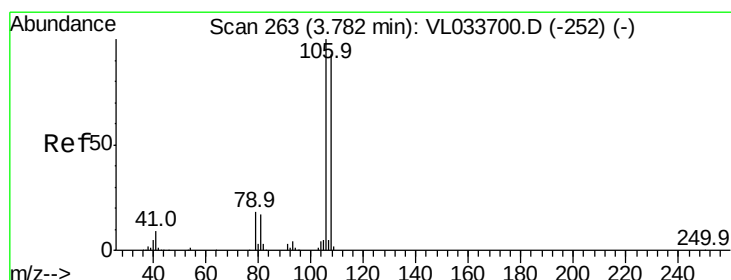
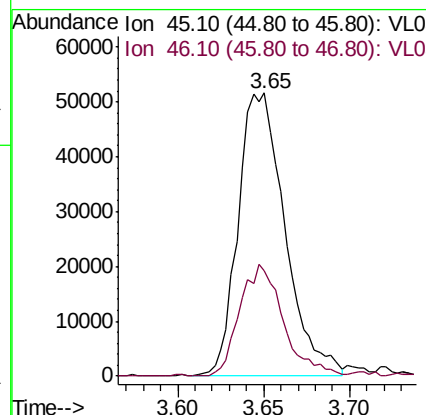
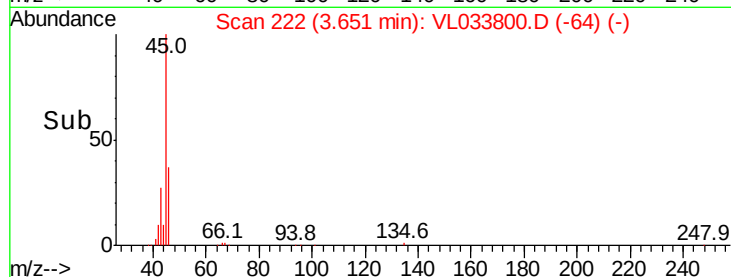
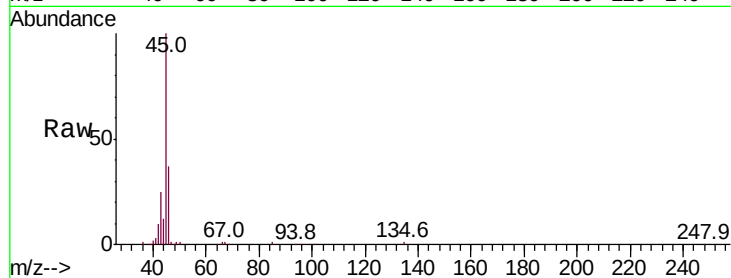
#13
Ethanol
Concen: 6.635 ppbv
RT: 3.65 min Scan# 222
Delta R.T. 0.01 min
Lab File: VL033800.D
Acq: 28 May 2019 11:08

Instrument :
MSVOA_L
ClientSampleId :
VL0528ABS01

Tot Ion	Ratio	Lower	Upper
45	100		
46	37.4	14.8	59.0

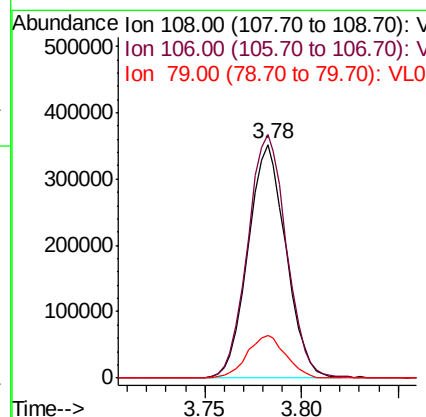
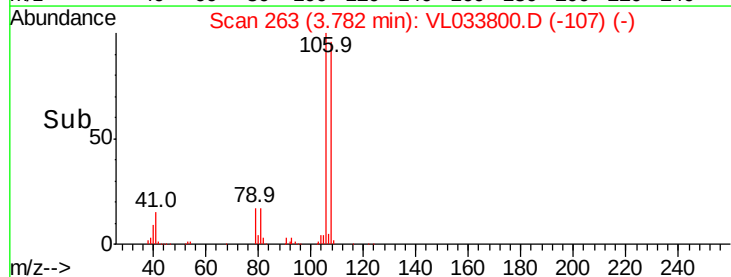
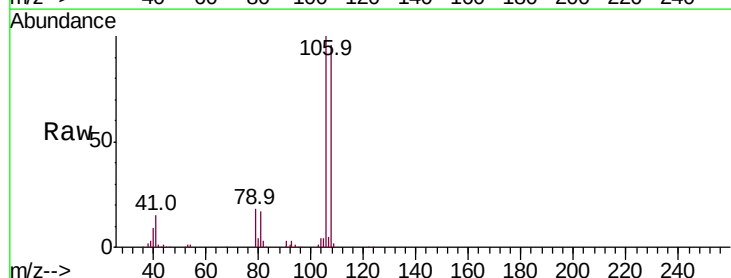
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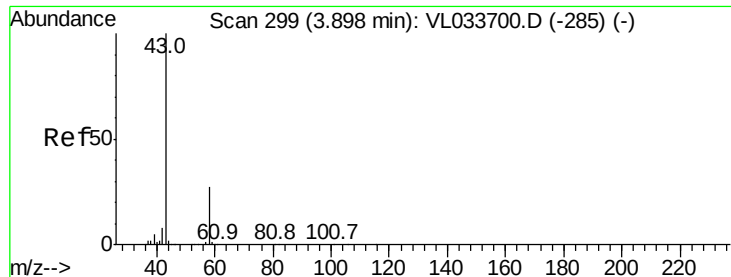
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#14
Bromoethene
Concen: 9.969 ppbv
RT: 3.78 min Scan# 263
Delta R.T. 0.00 min
Lab File: VL033800.D
Acq: 28 May 2019 11:08

Tgt Ion	Ratio	Lower	Upper
108	100		
106	107.5	86.5	129.7
79	18.7	15.1	22.7





#15

Acetone

Concen: 8.390 ppbv

RT: 3.89 min Scan# 298

Delta R.T. -0.00 min

Lab File: VL033800.D

Acq: 28 May 2019 11:08

Instrument :

MSVOA_L

ClientSampleId :

VL0528ABS01

Tot Ion: 43 Resp: 1090168

Ion Ratio Lower Upper

43 100

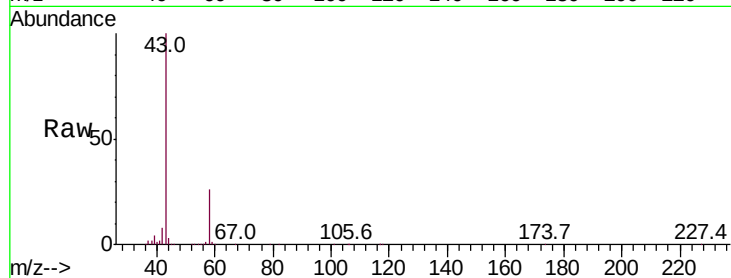
58 26.9 21.3 31.9

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.89

800000

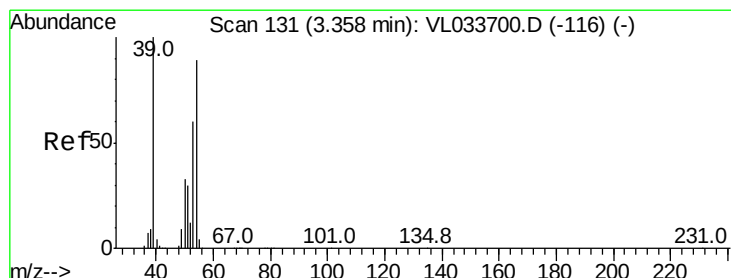
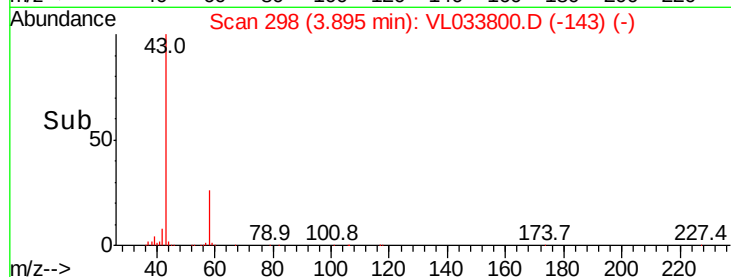
600000

400000

200000

0

Time-->



#16

1,3-Butadiene

Concen: 9.944 ppbv

RT: 3.36 min Scan# 131

Delta R.T. 0.00 min

Lab File: VL033800.D

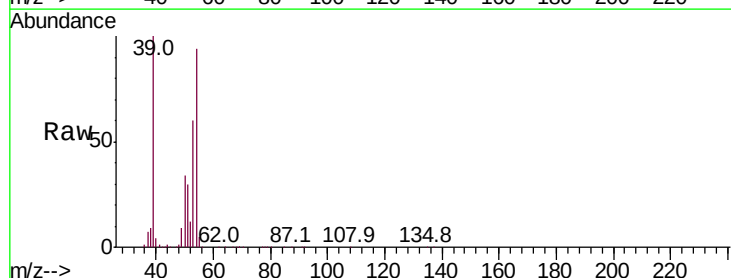
Acq: 28 May 2019 11:08

Tgt Ion: 39 Resp: 514507

Ion Ratio Lower Upper

39 100

54 87.7 69.0 103.6



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.36

400000

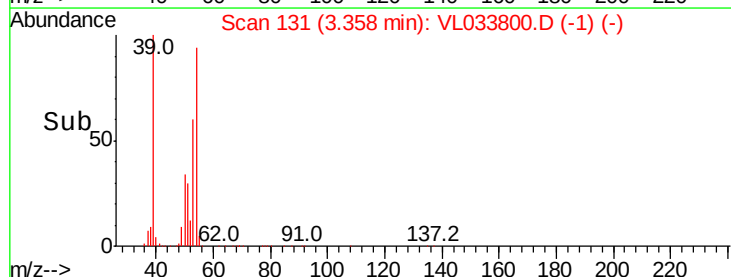
300000

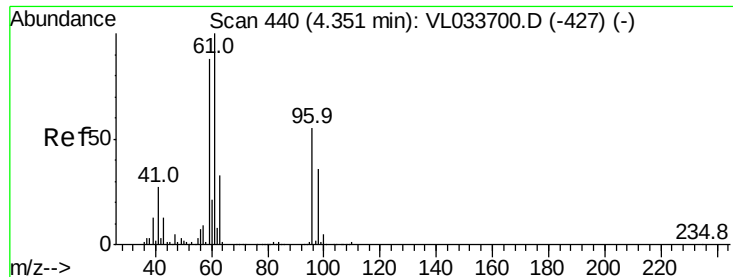
200000

100000

0

Time-->





#17

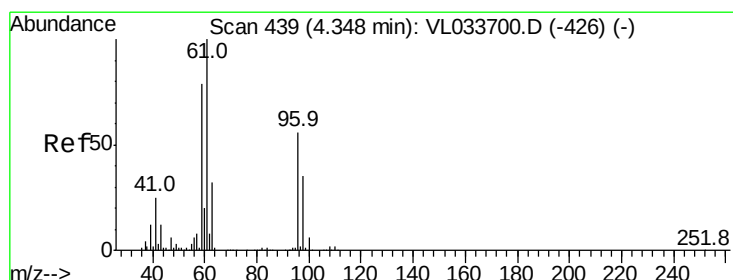
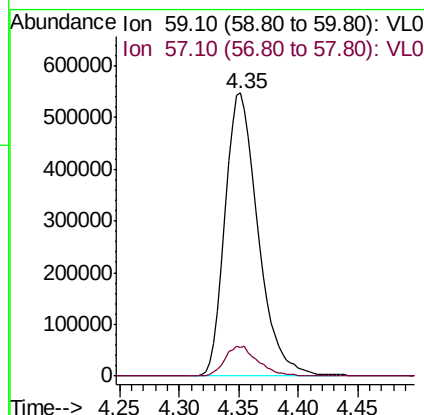
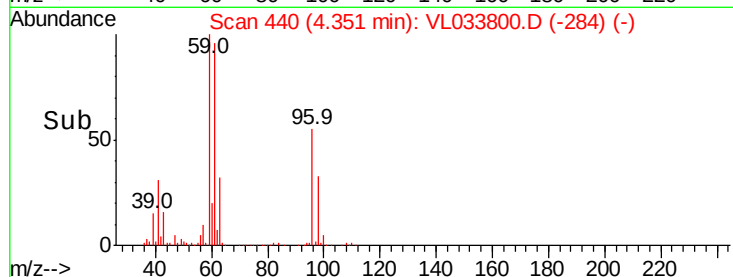
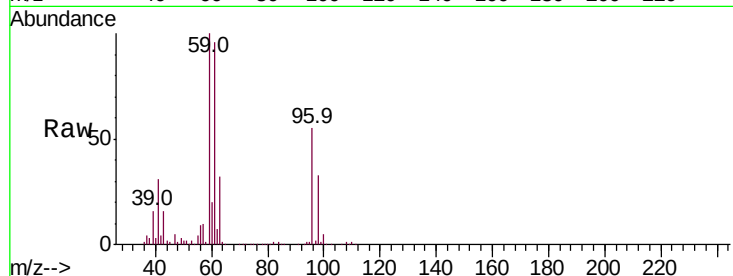
tert-Butyl alcohol
 Concen: 10.069 ppbv
 RT: 4.35 min Scan# 440
 Delta R.T. 0.00 min
 Lab File: VL033800.D
 Acq: 28 May 2019 11:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0528ABS01

Tot Ion: 59 Resp: 1057944
 Ion Ratio Lower Upper
 59 100
 57 10.6 8.4 12.6

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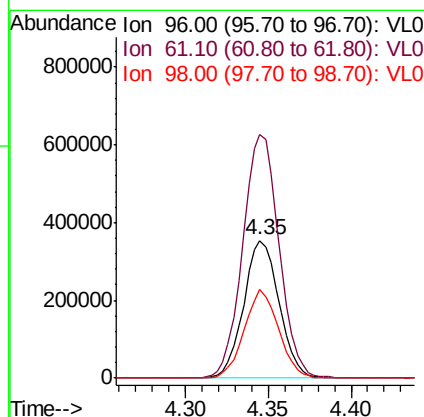
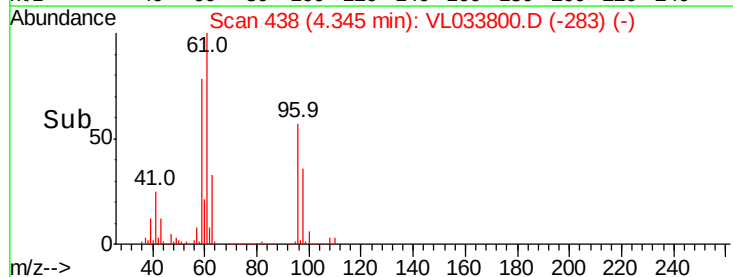
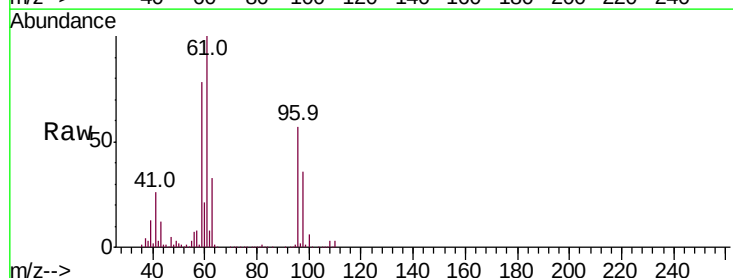
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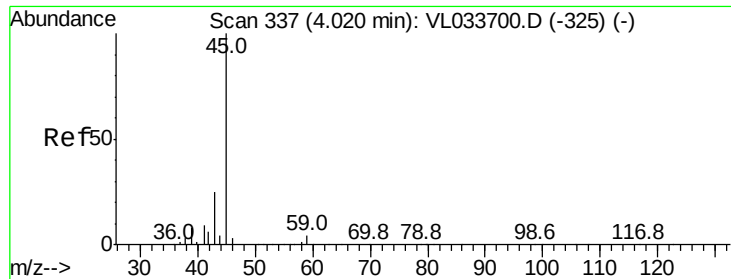


#18

1,1-Dichloroethene
 Concen: 9.481 ppbv
 RT: 4.35 min Scan# 438
 Delta R.T. -0.00 min
 Lab File: VL033800.D
 Acq: 28 May 2019 11:08

Tgt Ion: 96 Resp: 526373
 Ion Ratio Lower Upper
 96 100
 61 176.5 143.1 214.7
 98 64.1 49.5 74.3





#19

Isopropyl Alcohol

Concen: 9.430 ppbv

RT: 4.02 min Scan# 337

Delta R.T. 0.00 min

Lab File: VL033800.D

Acq: 28 May 2019 11:08

Instrument :

MSVOA_L

ClientSampleId :

VL0528ABS01

Tot Ion: 45 Resp: 790022

Ion Ratio Lower Upper

45 100

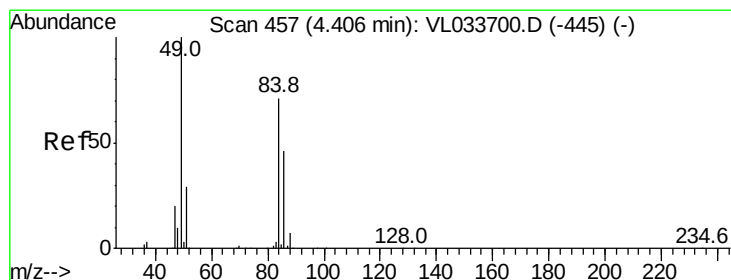
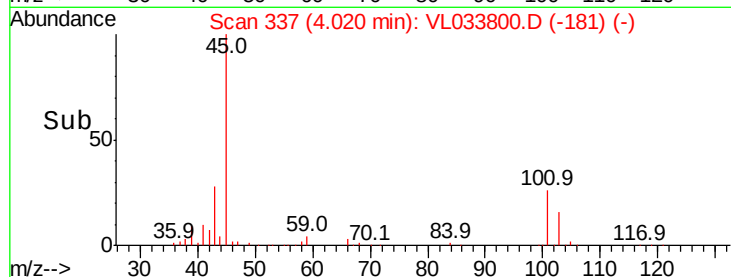
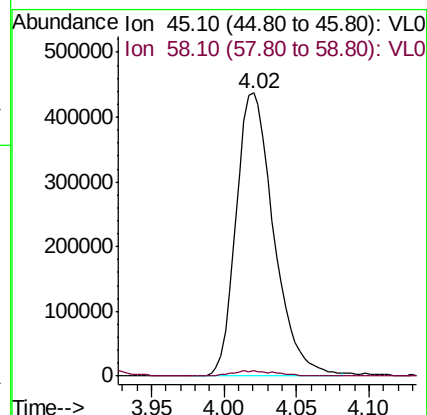
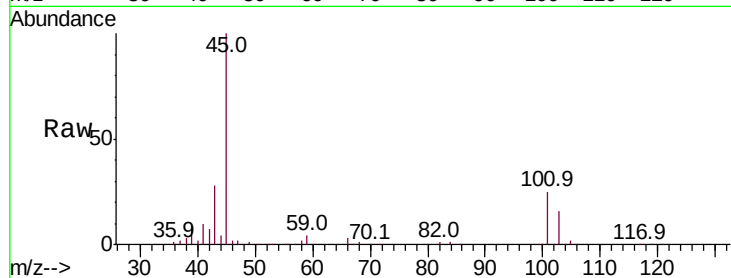
58 2.4 1.6 2.4

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#20

Methylene Chloride

Concen: 8.879 ppbv

RT: 4.40 min Scan# 456

Delta R.T. -0.00 min

Lab File: VL033800.D

Acq: 28 May 2019 11:08

Tgt Ion: 84 Resp: 444222

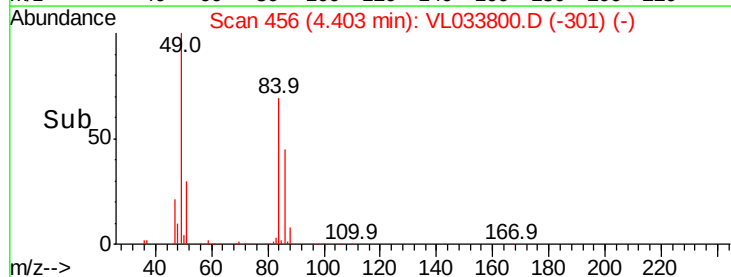
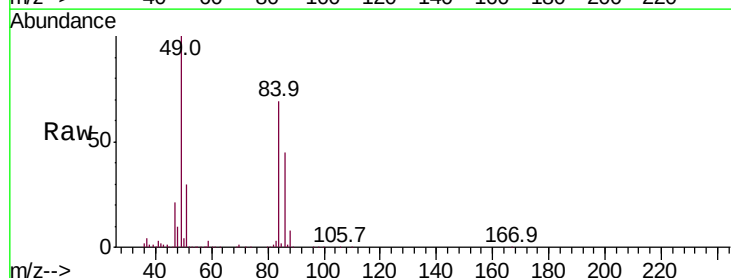
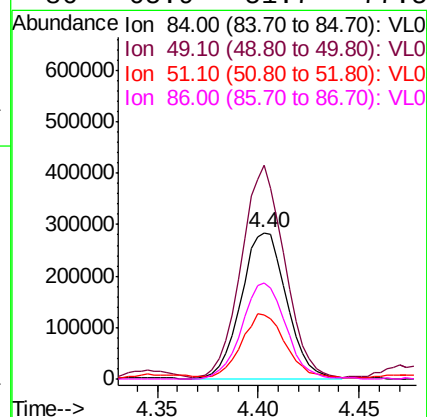
Ion Ratio Lower Upper

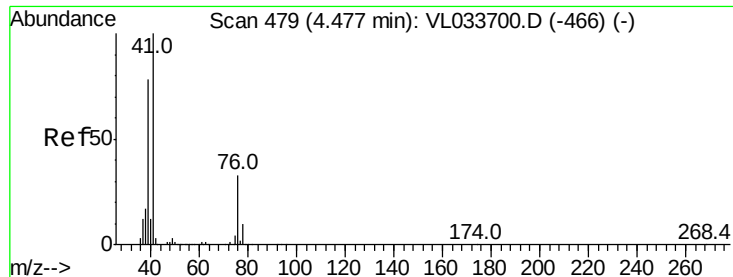
84 100

49 145.2 112.8 169.2

51 43.4 33.4 50.0

86 65.9 51.7 77.5





#21

Allvl Chloride

Concen: 9.223 ppbv

RT: 4.47 min Scan# 477

Delta R.T. -0.01 min

Lab File: VL033800.D

Acq: 28 May 2019 11:08

Instrument :

MSVOA_L

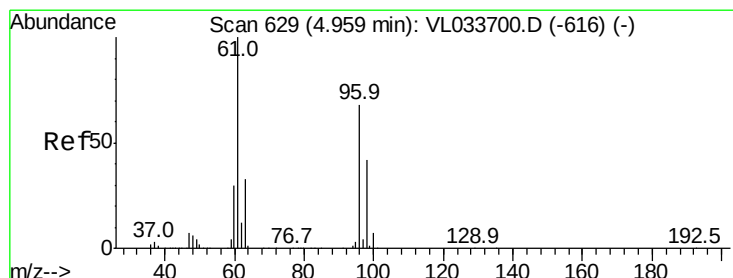
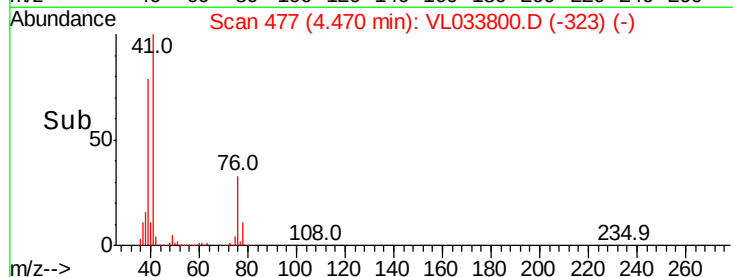
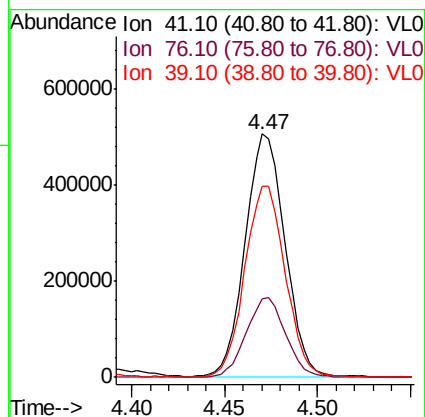
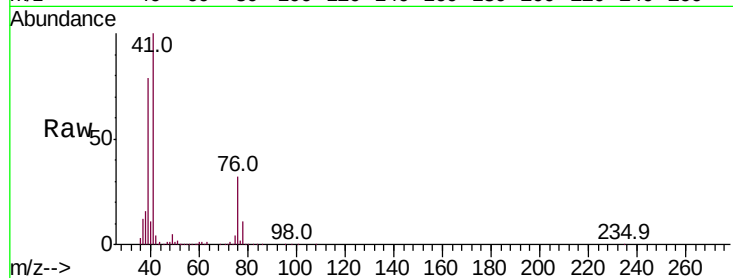
ClientSampleId :

VL0528ABS01

Tot Ion:	41	Resp:	747463
Ion Ratio	Lower	Upper	
41	100		
76	32.6	25.9	38.9
39	80.7	64.6	97.0

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#22

trans-1,2-Dichloroethene

Concen: 9.461 ppbv

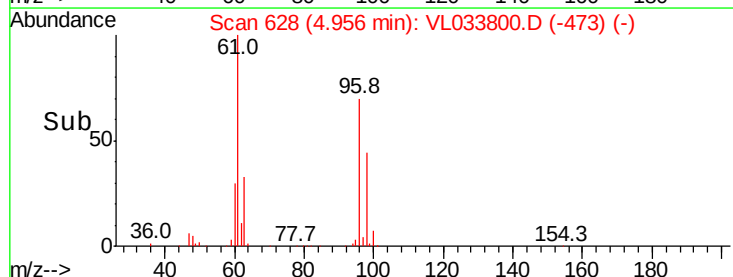
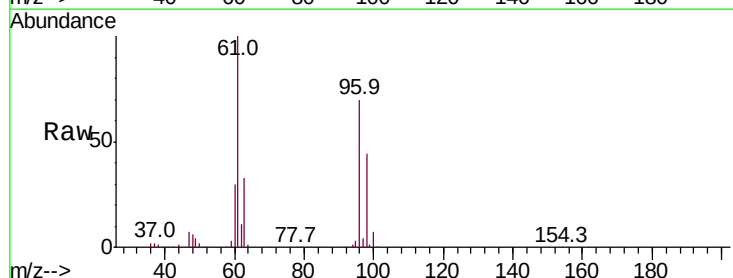
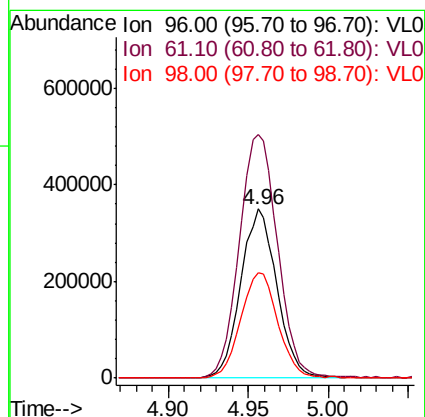
RT: 4.96 min Scan# 628

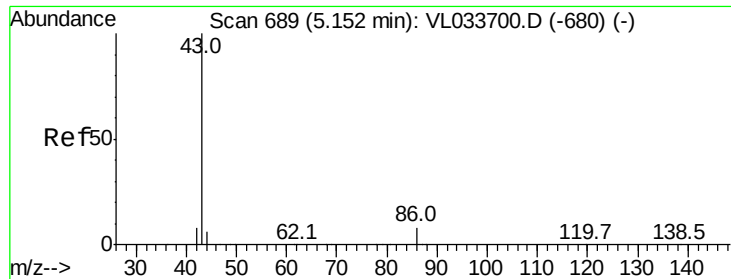
Delta R.T. -0.00 min

Lab File: VL033800.D

Acq: 28 May 2019 11:08

Tgt Ion:	96	Resp:	538396
Ion Ratio	Lower	Upper	
96	100		
61	143.7	116.8	175.2
98	62.6	49.4	74.0





#23

Vinyl Acetate

Concen: 9.808 ppbv

RT: 5.15 min Scan# 688

Delta R.T. -0.00 min

Lab File: VL033800.D

Acq: 28 May 2019 11:08

Instrument :

MSVOA_L

ClientSampleId :

VL0528ABS01

Tot Ion: 43 Resp: 1680240

Ion Ratio Lower Upper

43 100

86 7.8 6.0 9.0

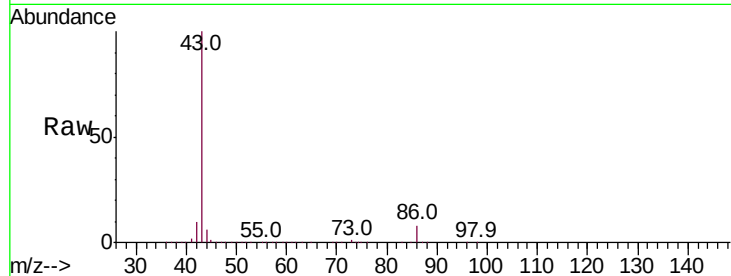
42 10.1 7.5 11.3

44 5.5 4.4 6.6

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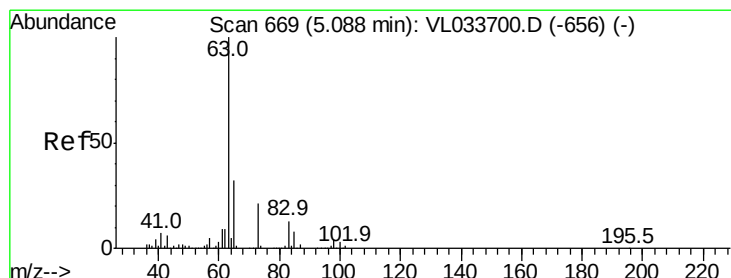
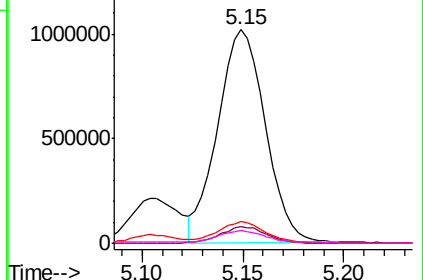
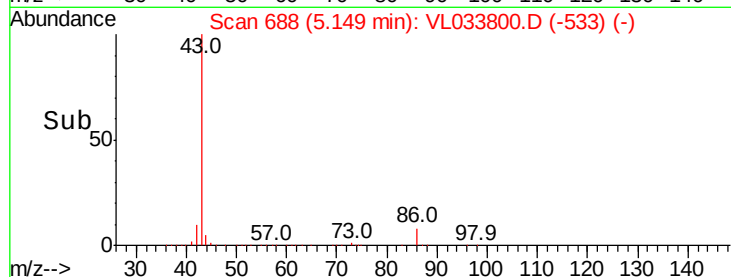


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.274 ppbv

RT: 5.08 min Scan# 668

Delta R.T. -0.00 min

Lab File: VL033800.D

Acq: 28 May 2019 11:08

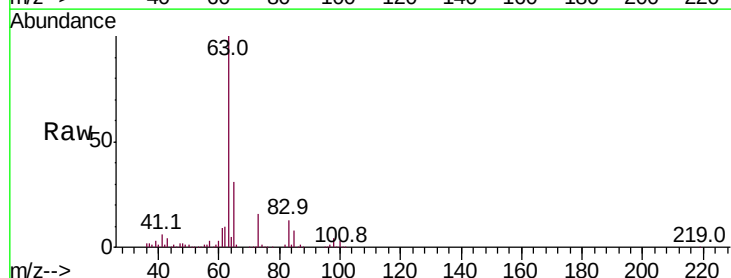
Tgt Ion: 63 Resp: 1207721

Ion Ratio Lower Upper

63 100

98 4.4 1.8 5.5

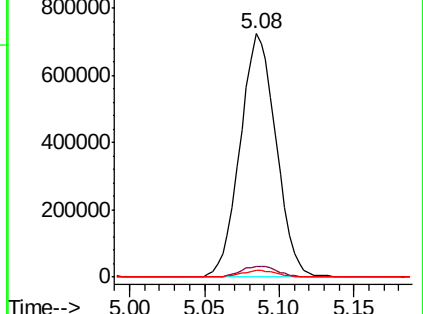
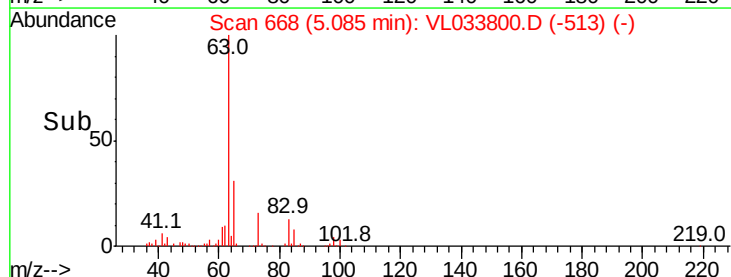
100 2.8 1.4 4.2

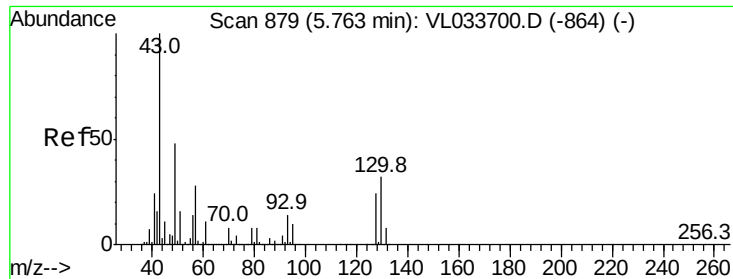


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 9.322 ppbv

RT: 5.76 min Scan# 879

Delta R.T. 0.00 min

Lab File: VL033800.D

Acq: 28 May 2019 11:08

Instrument :

MSVOA_L

ClientSampleId :

VL0528ABS01

Tot Ion: 43 Resp: 2127750

Ion Ratio Lower Upper

43 100

45 9.8 7.9 11.9

61 9.4 7.7 11.5

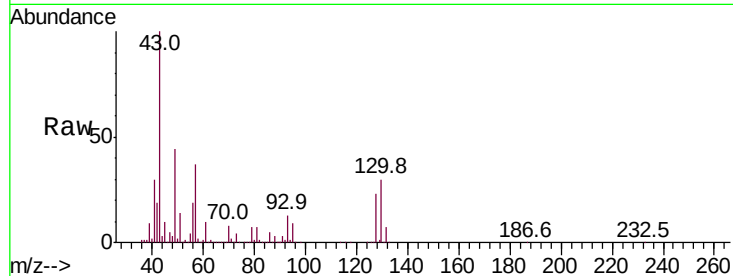
70 7.3 5.8 8.6

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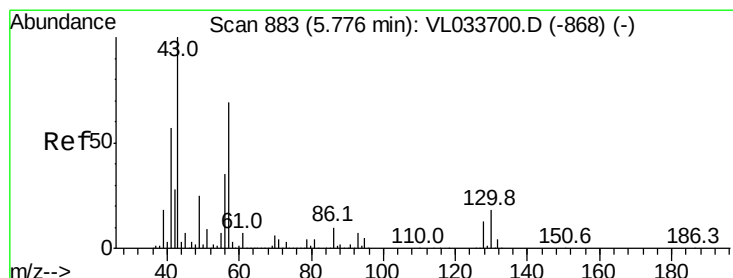
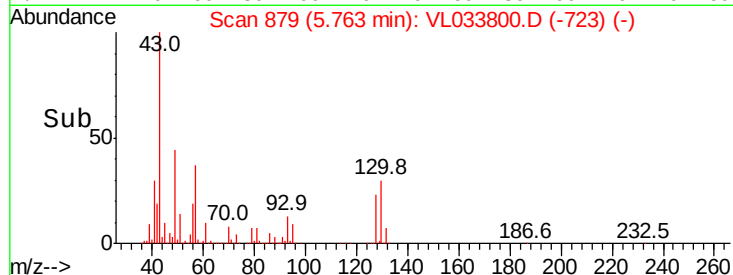
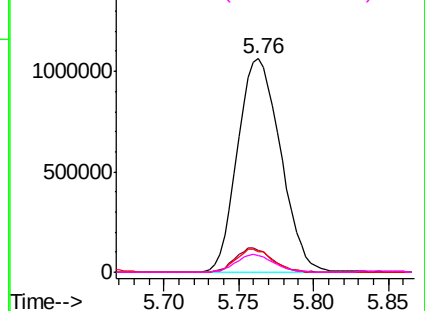
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 9.608 ppbv

RT: 5.77 min Scan# 882

Delta R.T. -0.00 min

Lab File: VL033800.D

Acq: 28 May 2019 11:08

Tgt Ion: 57 Resp: 942807

Ion Ratio Lower Upper

57 100

41 87.6 69.8 104.6

43 226.8 181.8 272.6

56 53.0 42.1 63.1

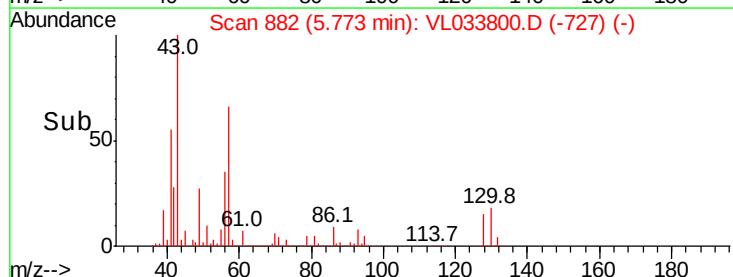
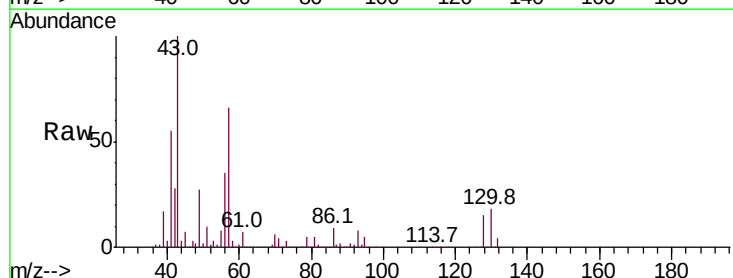
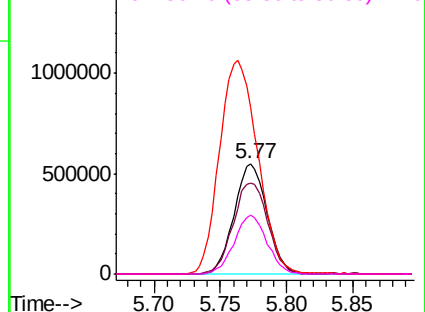
Abundance

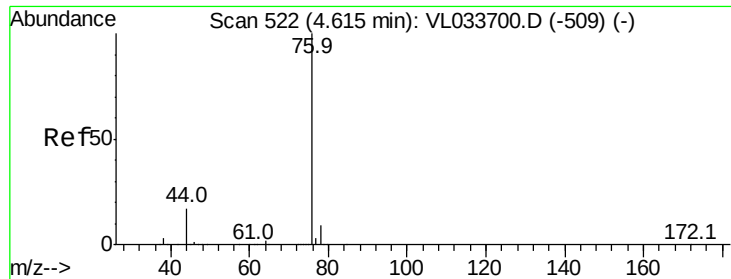
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 9.677 ppbv

RT: 4.61 min Scan# 521

Delta R.T. -0.00 min

Lab File: VL033800.D

Acq: 28 May 2019 11:08

Instrument :

MSVOA_L

ClientSampleId :

VL0528ABS01

Tot Ion: 76 Resp: 1302689

Ion Ratio Lower Upper

76 100

44 17.0 13.8 20.8

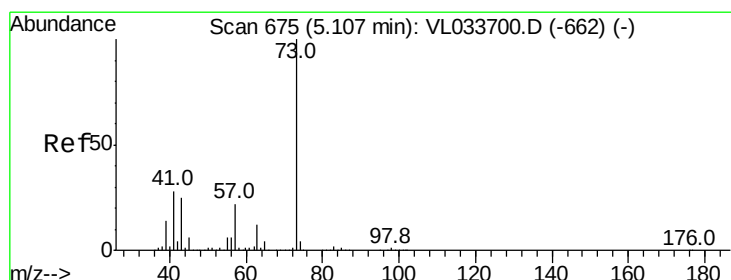
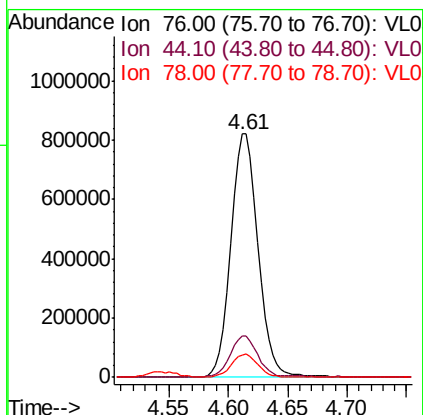
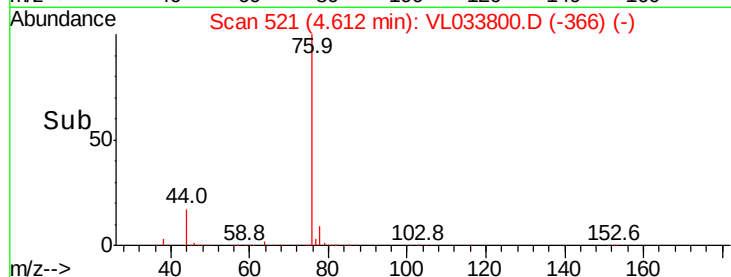
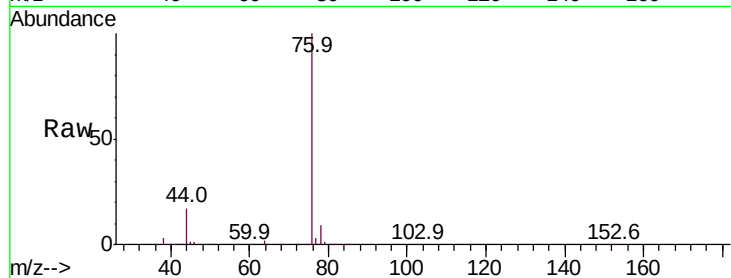
78 9.3 7.4 11.0

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#28

Methyl tert-Butyl Ether

Concen: 9.777 ppbv

RT: 5.11 min Scan# 675

Delta R.T. 0.00 min

Lab File: VL033800.D

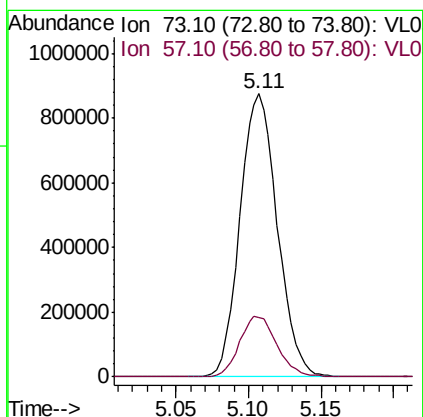
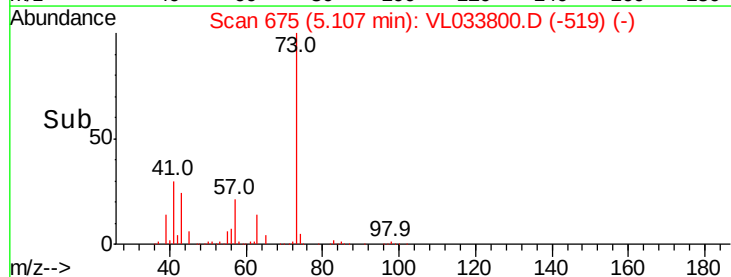
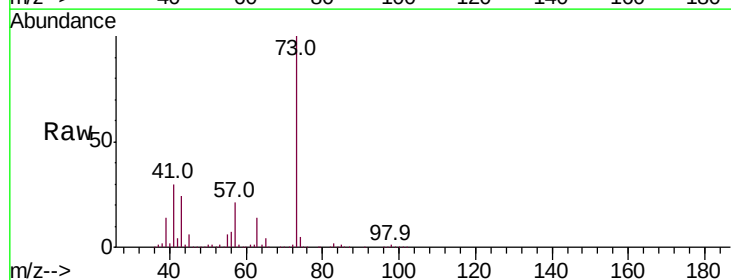
Acq: 28 May 2019 11:08

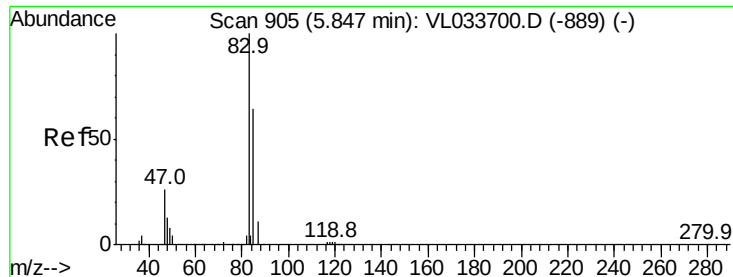
Tgt Ion: 73 Resp: 1563927

Ion Ratio Lower Upper

73 100

57 21.6 17.4 26.2





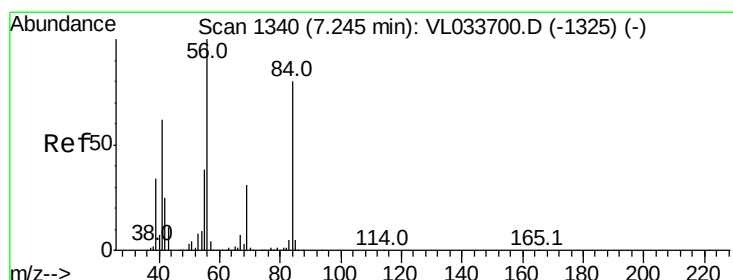
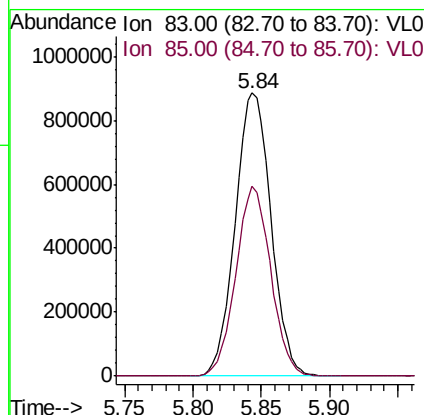
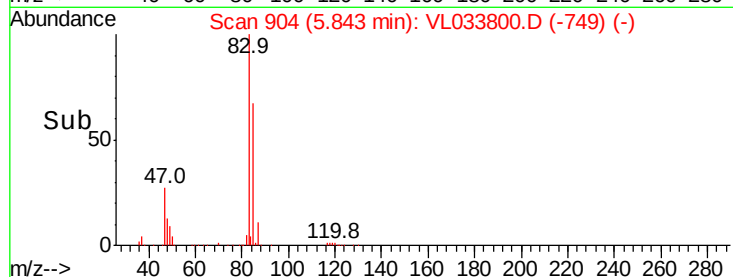
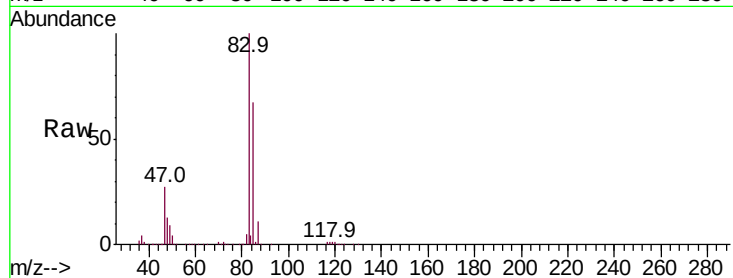
#29
Chloroform
Concen: 8.943 ppbv
RT: 5.84 min Scan# 904
Delta R.T. -0.00 min
Lab File: VL033800.D
Acq: 28 May 2019 11:08

Instrument :
MSVOA_L
ClientSampleId :
VL0528ABS01

Tot Ion: 83 Resp: 1616496
Ion Ratio Lower Upper
83 100
85 67.0 51.5 77.3

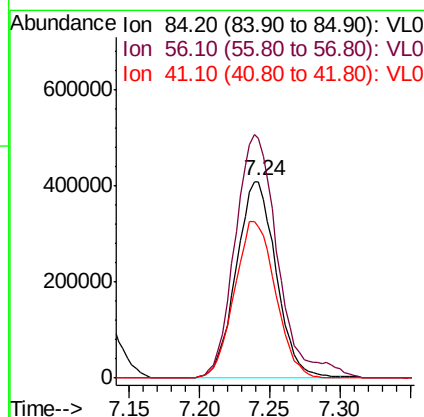
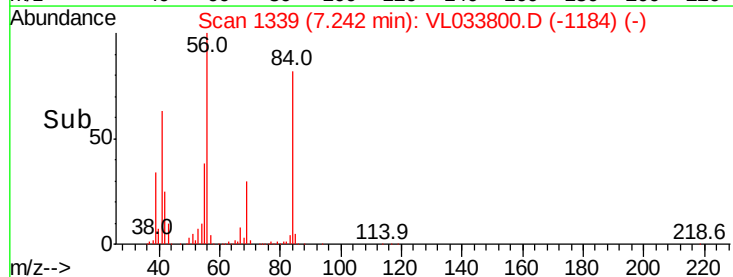
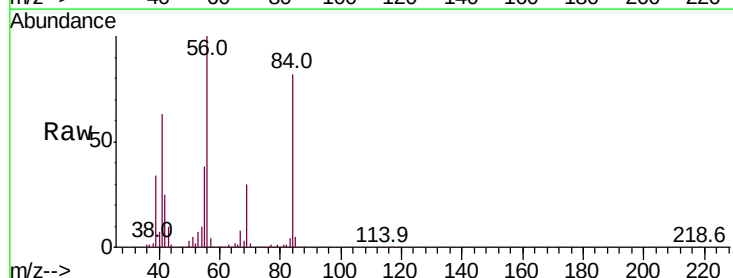
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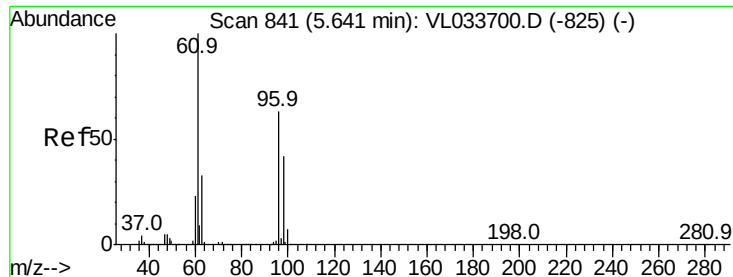
apatel
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#30
Cyclohexane
Concen: 9.765 ppbv
RT: 7.24 min Scan# 1339
Delta R.T. -0.00 min
Lab File: VL033800.D
Acq: 28 May 2019 11:08

Tgt Ion: 84 Resp: 805585
Ion Ratio Lower Upper
84 100
56 134.3 107.7 161.5
41 82.6 66.0 99.0





#31

cis-1,2-Dichloroethene

Concen: 9.634 ppbv

RT: 5.63 min Scan# 839

Delta R.T. -0.01 min

Lab File: VL033800.D

Acq: 28 May 2019 11:08

Instrument :

MSVOA_L

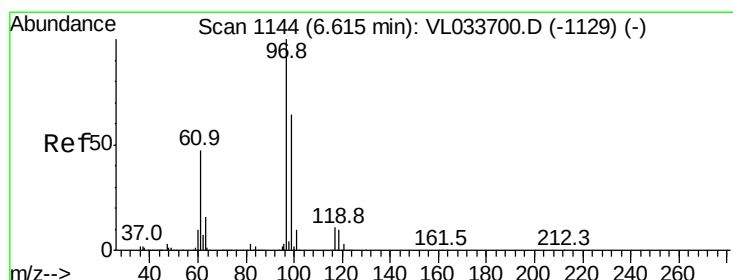
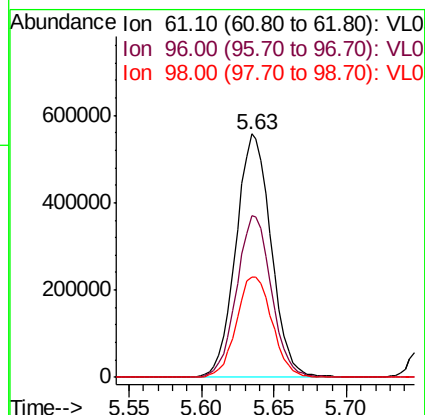
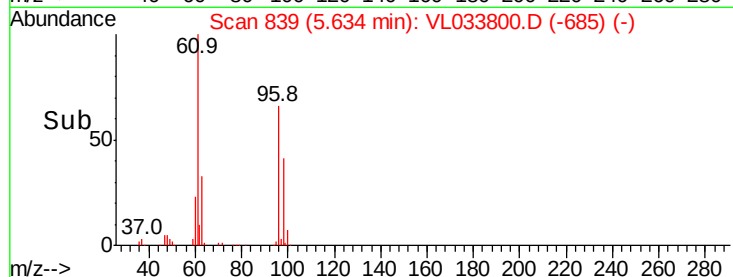
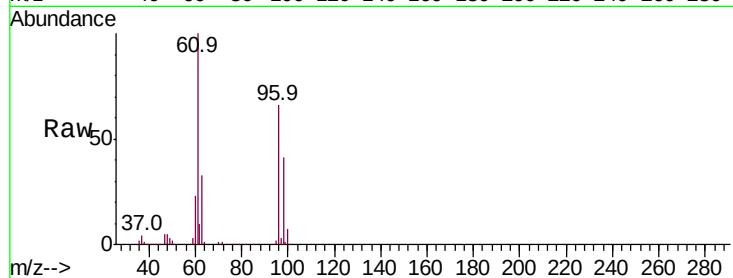
ClientSampleId :

VL0528ABS01

Tot Ion:	61	Resp:	937317
Ion Ratio		Lower	Upper
61	100		
96	66.3	50.8	76.2
98	41.0	33.3	49.9

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#32

1,1,1-Trichloroethane

Concen: 8.879 ppbv

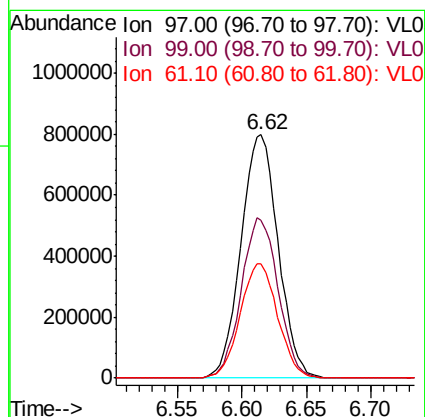
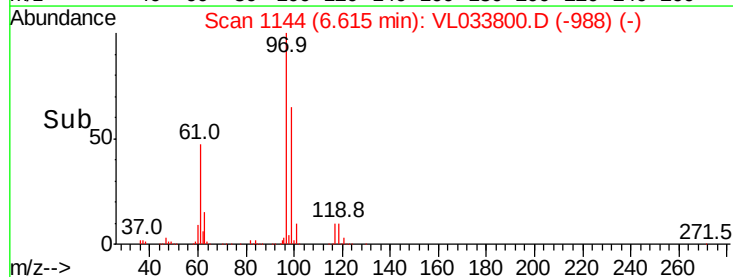
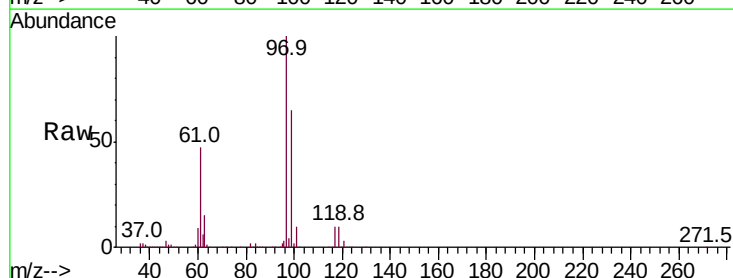
RT: 6.62 min Scan# 1144

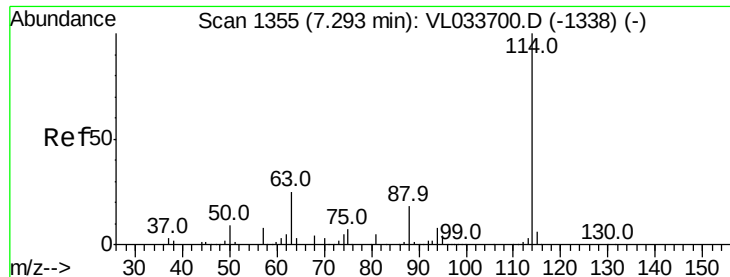
Delta R.T. 0.00 min

Lab File: VL033800.D

Acq: 28 May 2019 11:08

Tgt Ion:	97	Resp:	1602533
Ion Ratio		Lower	Upper
97	100		
99	65.4	51.5	77.3
61	47.6	37.8	56.8





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1353

Delta R.T. -0.01 min

Lab File: VL033800.D

Acq: 28 May 2019 11:08

Instrument :

MSVOA_L

ClientSampleId :

VL0528ABS01

Tot Ion:114 Resp: 2269906

Ion Ratio Lower Upper

114 100

63 26.2 20.9 31.3

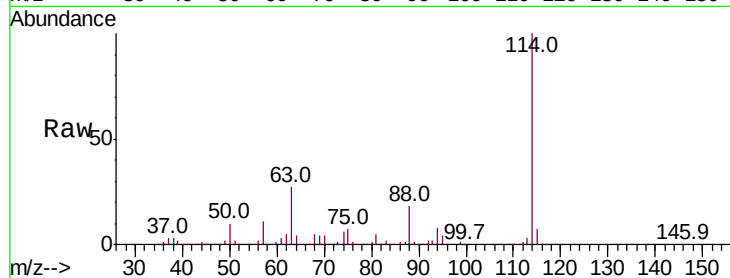
88 17.8 14.3 21.5

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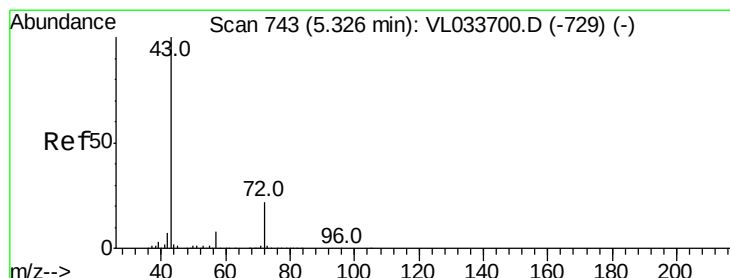
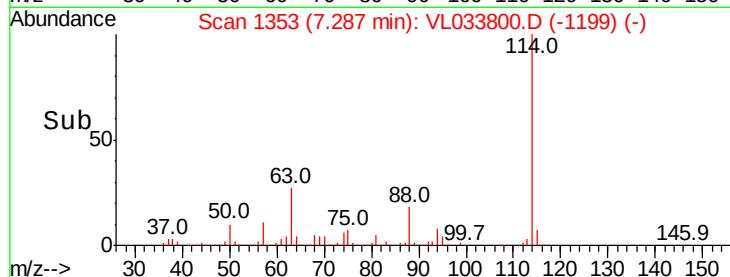
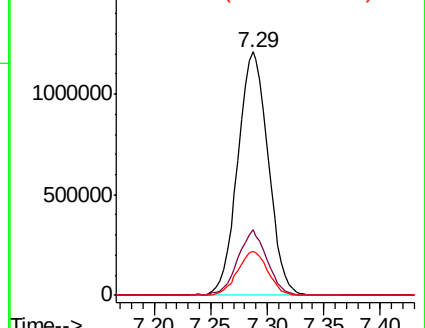
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Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 9.564 ppbv

RT: 5.32 min Scan# 742

Delta R.T. -0.00 min

Lab File: VL033800.D

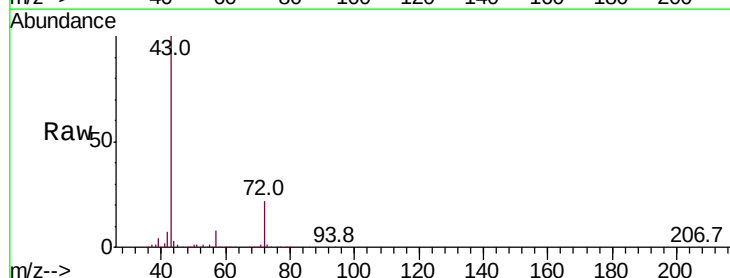
Acq: 28 May 2019 11:08

Tgt Ion: 43 Resp: 1345609

Ion Ratio Lower Upper

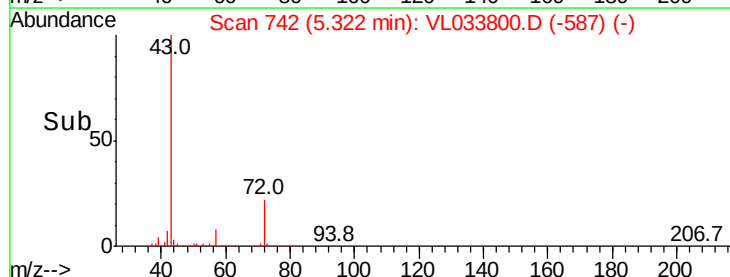
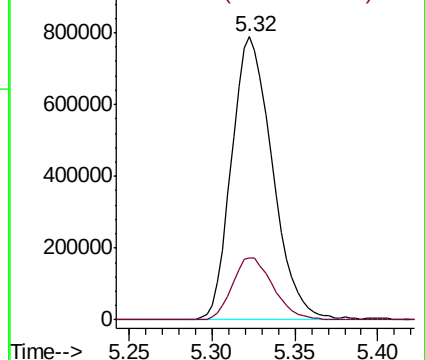
43 100

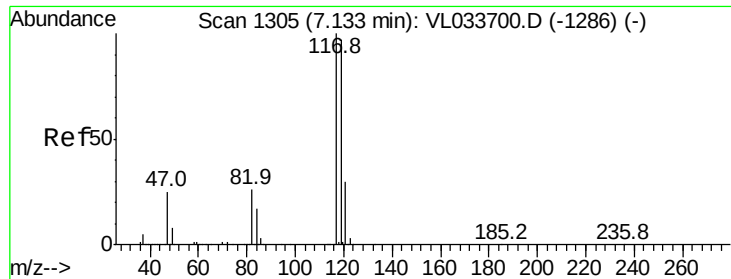
72 22.3 17.8 26.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 9.450 ppbv

RT: 7.13 min Scan# 1304

Delta R.T. -0.00 min

Lab File: VL033800.D

Acq: 28 May 2019 11:08

Instrument :

MSVOA_L

ClientSampleId :

VL0528ABS01

Tot Ion:117 Resp: 1718257

Ion Ratio Lower Upper

117 100

119 95.3 77.2 115.8

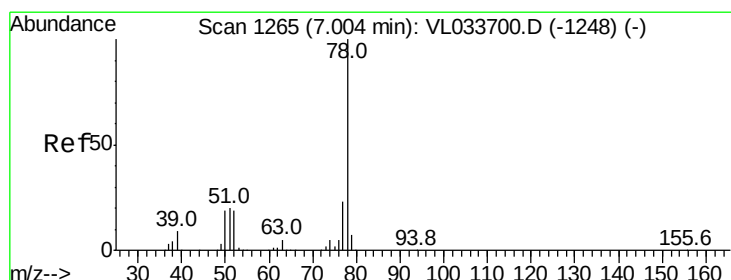
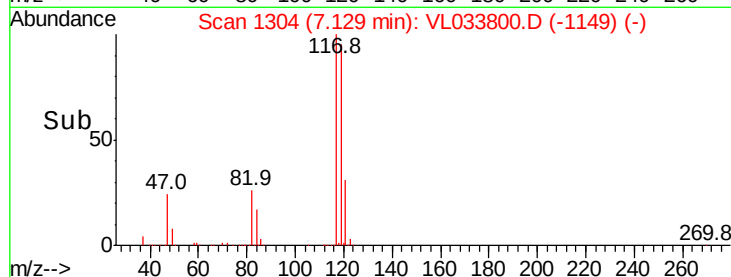
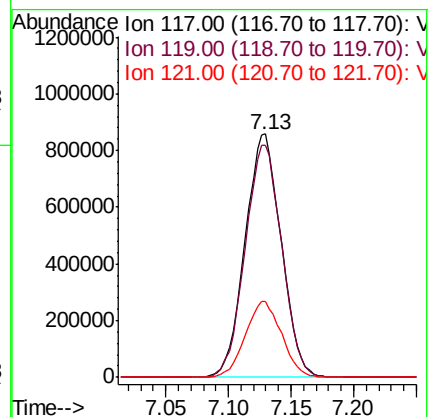
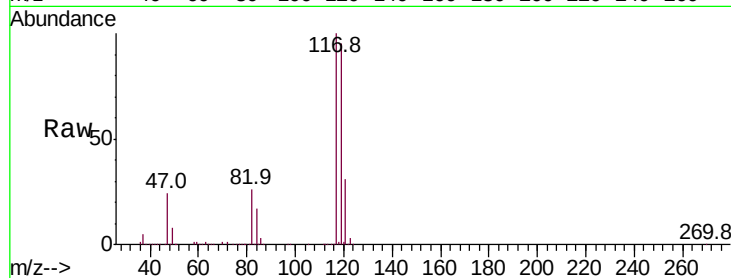
121 31.0 24.1 36.1

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#36

Benzene

Concen: 9.210 ppbv

RT: 7.00 min Scan# 1264

Delta R.T. -0.00 min

Lab File: VL033800.D

Acq: 28 May 2019 11:08

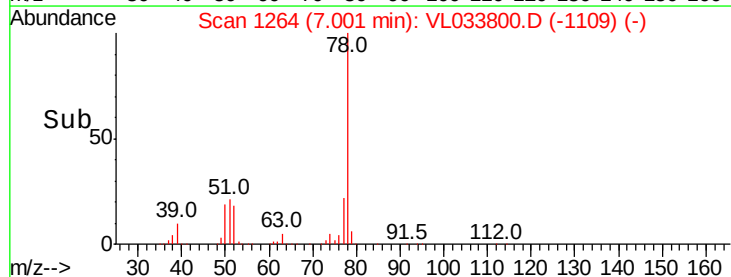
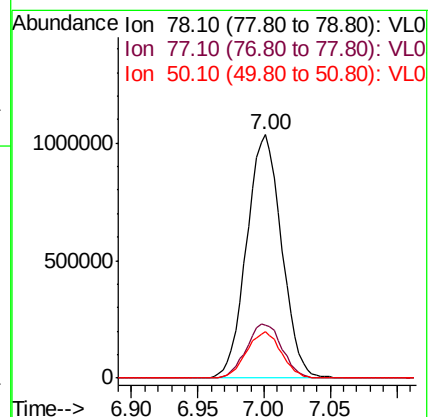
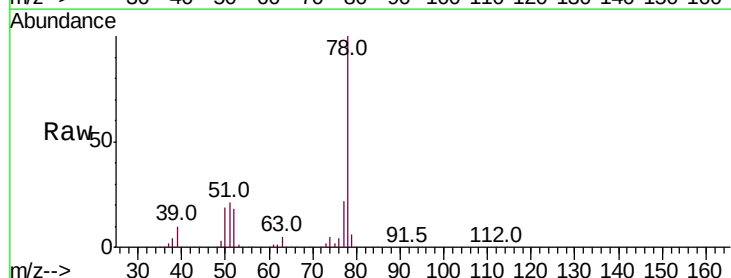
Tgt Ion: 78 Resp: 1901753

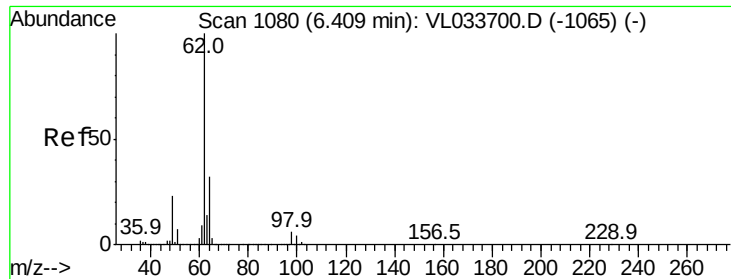
Ion Ratio Lower Upper

78 100

77 21.6 18.4 27.6

50 18.8 15.5 23.3





#37

1,2-Dichloroethane

Concen: 9.020 ppbv

RT: 6.41 min Scan# 1079

Delta R.T. -0.00 min

Lab File: VL033800.D

Acq: 28 May 2019 11:08

Instrument :

MSVOA_L

ClientSampleId :

VL0528ABS01

Tot Ion: 62 Resp: 1201475

Ion Ratio Lower Upper

62 100

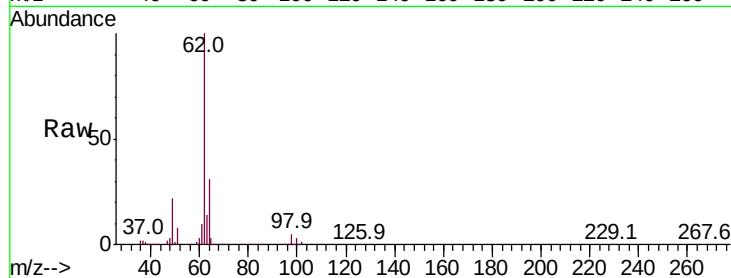
98 5.6 4.5 6.7

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

6.41

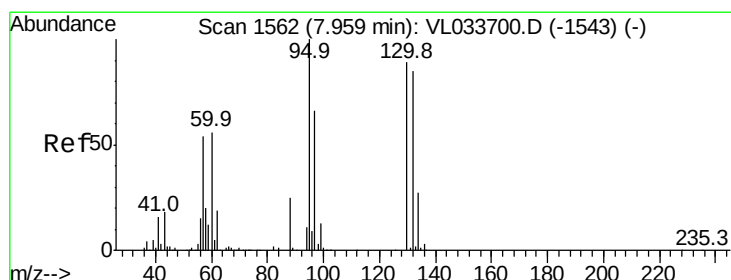
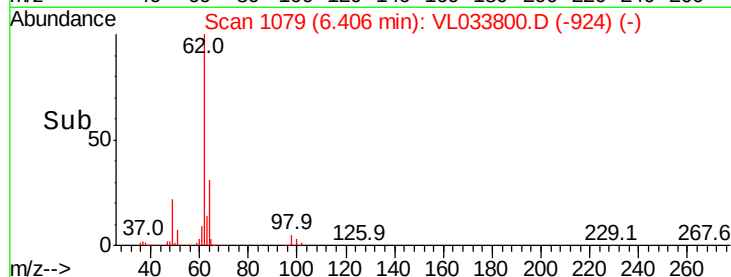
600000

400000

200000

0

Time--> 6.30 6.35 6.40 6.45 6.50



#38

Trichloroethene

Concen: 10.685 ppbv

RT: 7.96 min Scan# 1561

Delta R.T. -0.00 min

Lab File: VL033800.D

Acq: 28 May 2019 11:08

Tgt Ion:130 Resp: 818667

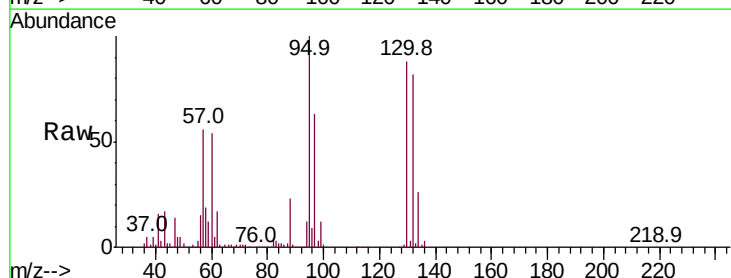
Ion Ratio Lower Upper

130 100

95 113.5 90.2 135.4

132 92.6 76.4 114.6

97 71.7 59.8 89.6



Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0

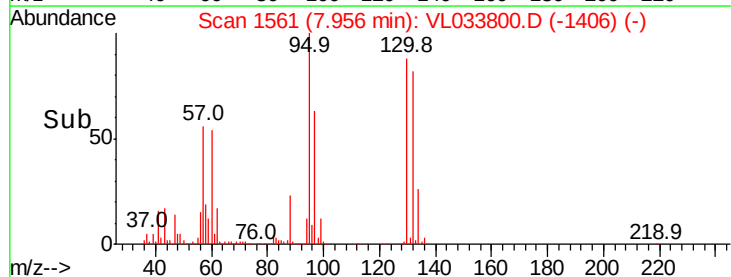
600000

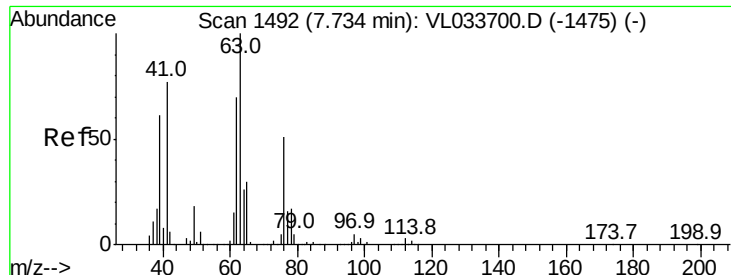
400000

200000

0

Time--> 7.85 7.90 7.95 8.00





#39

1,2-Dichloropropane

Concen: 9.648 ppbv

RT: 7.73 min Scan# 1490

Delta R.T. -0.01 min

Lab File: VL033800.D

Acq: 28 May 2019 11:08

Instrument :

MSVOA_L

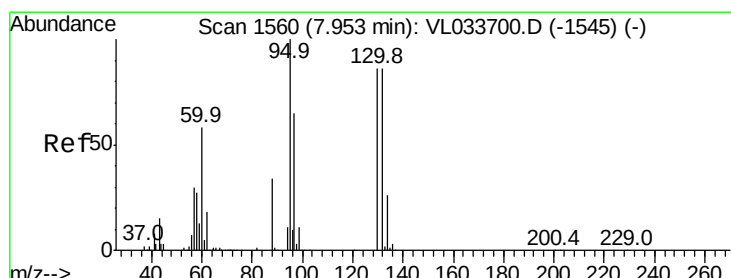
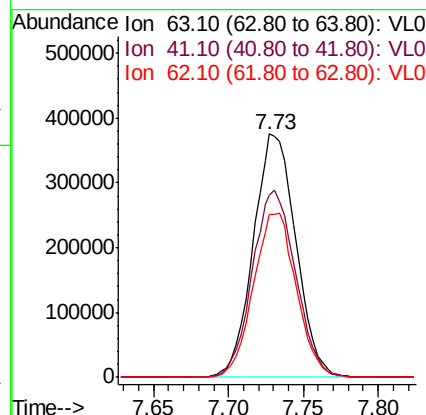
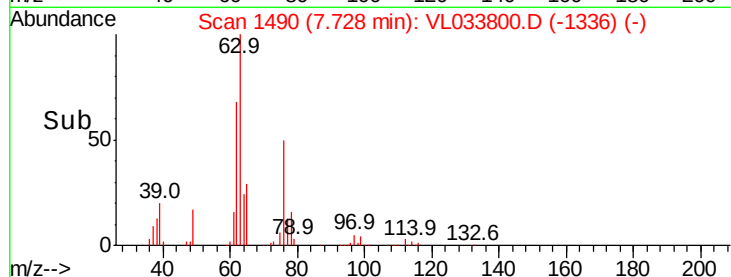
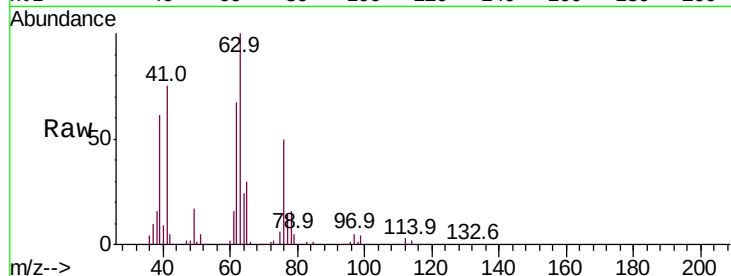
ClientSampleId :

VL0528ABS01

Tot Ion:	63	Resp:	742720
Ion Ratio	Lower	Upper	
63	100		
41	74.7	61.5	92.3
62	67.2	56.2	84.4

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#40

1,4-Dioxane

Concen: 9.404 ppbv

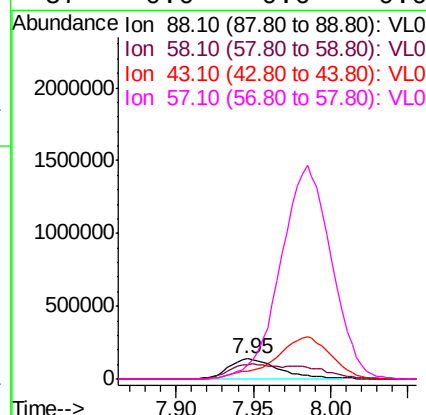
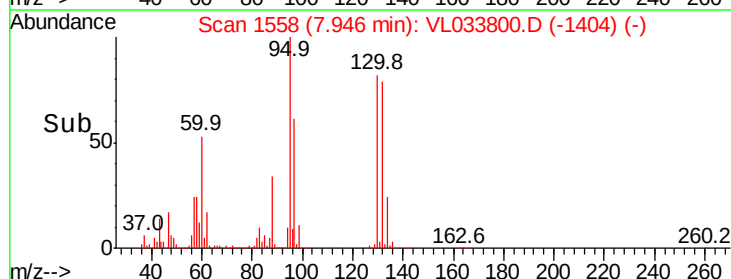
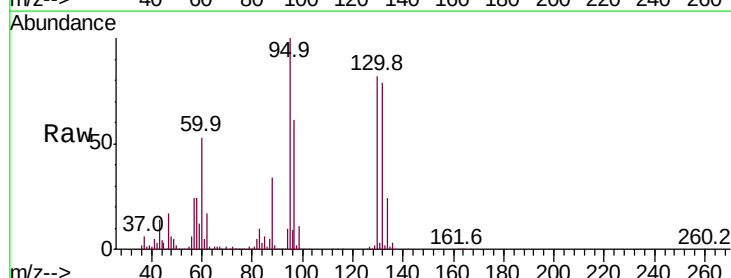
RT: 7.95 min Scan# 1558

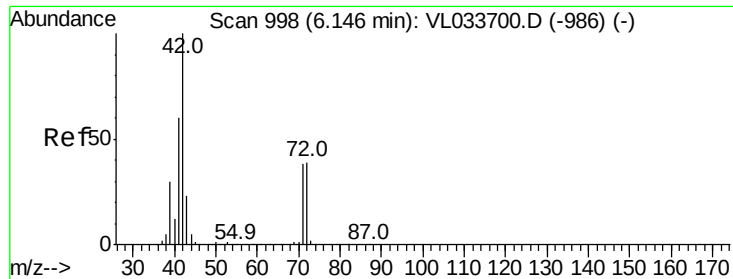
Delta R.T. -0.01 min

Lab File: VL033800.D

Acq: 28 May 2019 11:08

Tgt Ion:	88	Resp:	302840
Ion Ratio	Lower	Upper	
88	100		
58	127.6	101.8	152.6
43	0.0	0.0	0.0
57	0.0	0.0	0.0





#41

Tetrahydrofuran

Concen: 9.562 ppbv

RT: 6.14 min Scan# 996

Delta R.T. -0.01 min

Lab File: VL033800.D

Acq: 28 May 2019 11:08

Instrument :

MSVOA_L

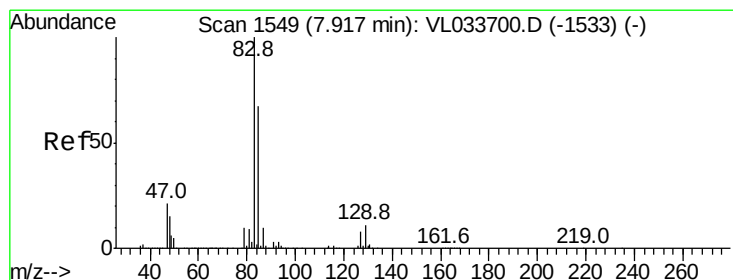
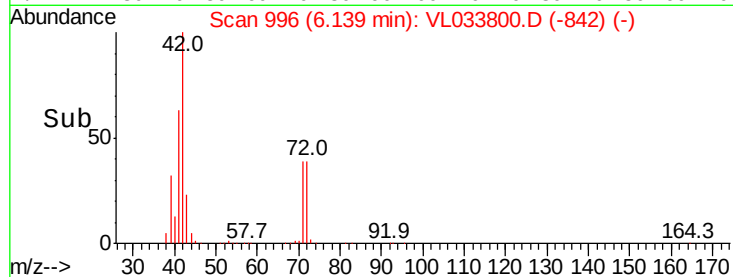
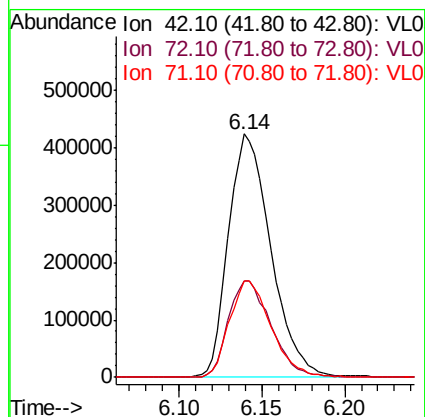
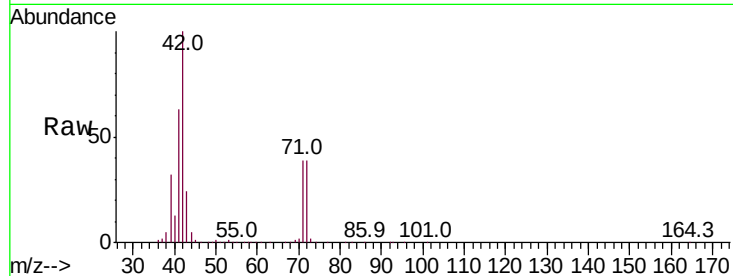
ClientSampleId :

VL0528ABS01

Tot Ion:	42	Resp:	753805
Ion Ratio		Lower	Upper
42	100		
72	40.1	32.0	48.0
71	39.3	30.4	45.6

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#42

Bromodichloromethane

Concen: 9.785 ppbv

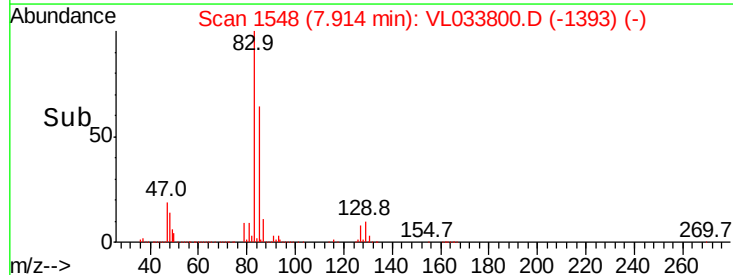
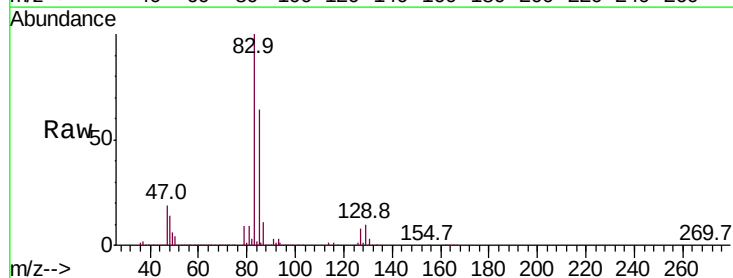
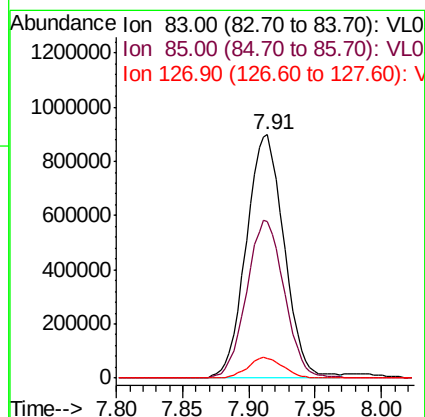
RT: 7.91 min Scan# 1548

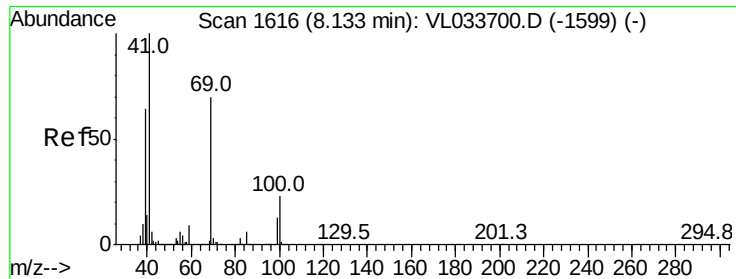
Delta R.T. -0.00 min

Lab File: VL033800.D

Acq: 28 May 2019 11:08

Tgt Ion:	83	Resp:	1784216
Ion Ratio		Lower	Upper
83	100		
85	64.5	53.3	79.9
127	8.0	6.5	9.7





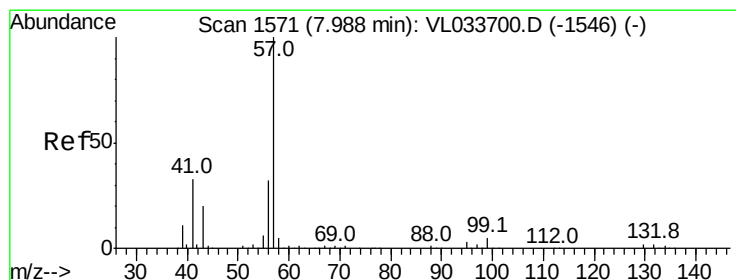
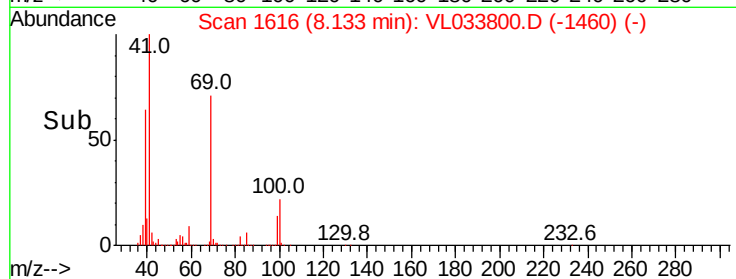
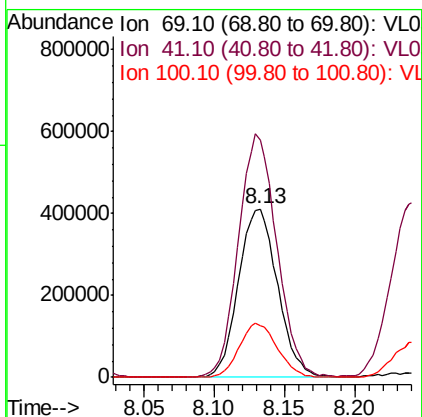
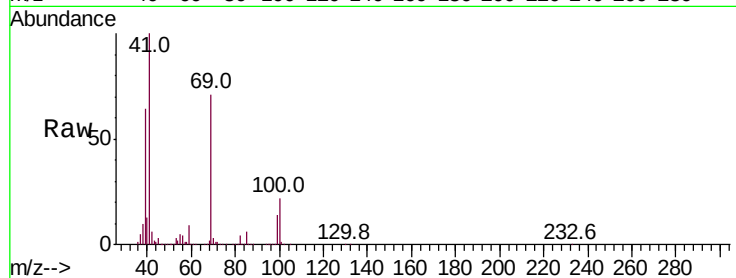
#43
Methyl Methacrylate
Concen: 10.538 ppbv
RT: 8.13 min Scan# 1616
Delta R.T. 0.00 min
Lab File: VL033800.D
Acq: 28 May 2019 11:08

Instrument :
MSVOA_L
ClientSampleId :
VL0528ABS01

Tot Ion	Ratio	Lower	Upper
69	100		
41	141.8	116.3	174.5
100	31.1	25.3	37.9

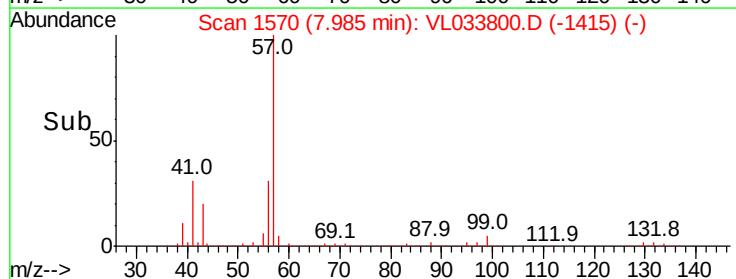
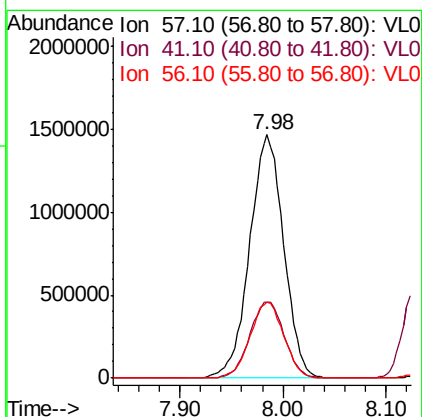
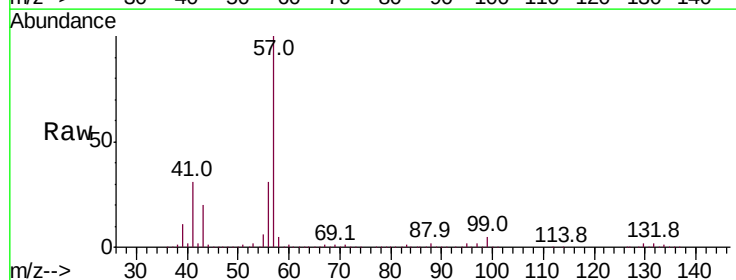
Manual Integrations
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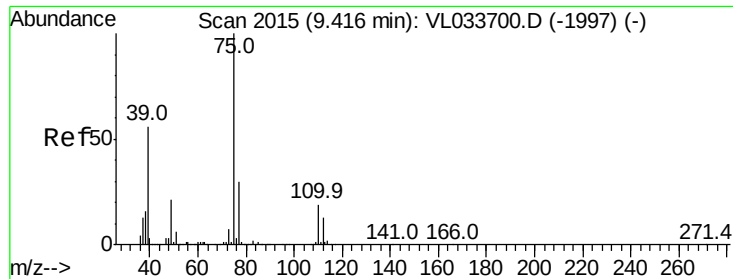
apatel
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#44
2,2,4-Trimethylpentane
Concen: 9.618 ppbv
RT: 7.98 min Scan# 1570
Delta R.T. -0.00 min
Lab File: VL033800.D
Acq: 28 May 2019 11:08

Tgt Ion	Ratio	Lower	Upper
57	100		
41	31.9	25.4	38.0
56	30.9	24.7	37.1





#45

t-1,3-Dichloropropene

Concen: 10.651 ppbv

RT: 9.41 min Scan# 2013

Delta R.T. -0.01 min

Lab File: VL033800.D

Acq: 28 May 2019 11:08

Instrument :

MSVOA_L

ClientSampleId :

VL0528ABS01

Tot Ion: 75 Resp: 1026102

Ion Ratio Lower Upper

75 100

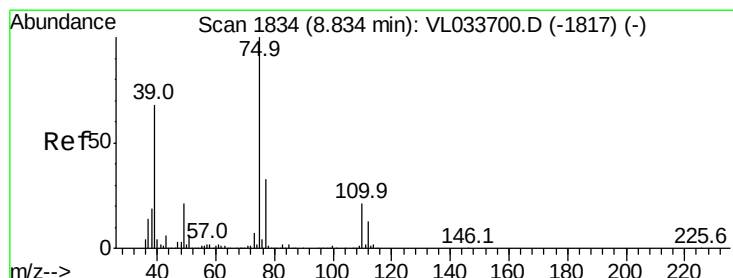
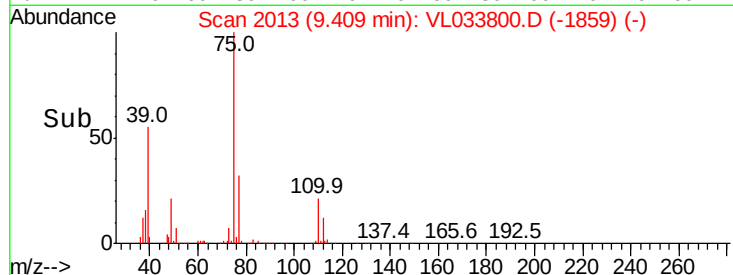
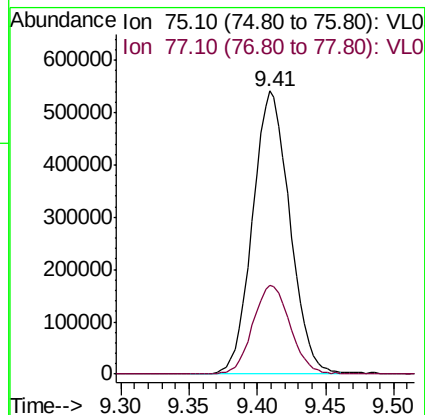
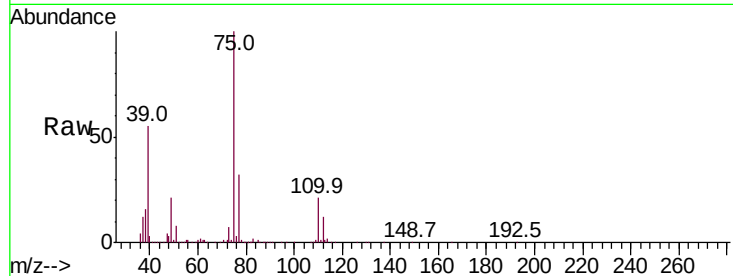
77 31.6 24.4 36.6

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#46

cis-1,3-Dichloropropene

Concen: 10.304 ppbv

RT: 8.83 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VL033800.D

Acq: 28 May 2019 11:08

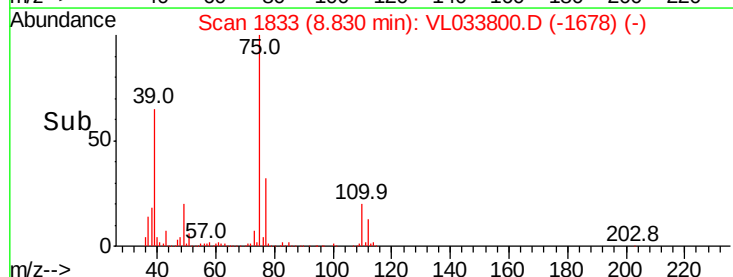
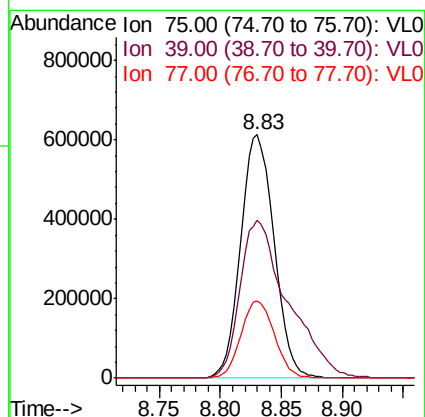
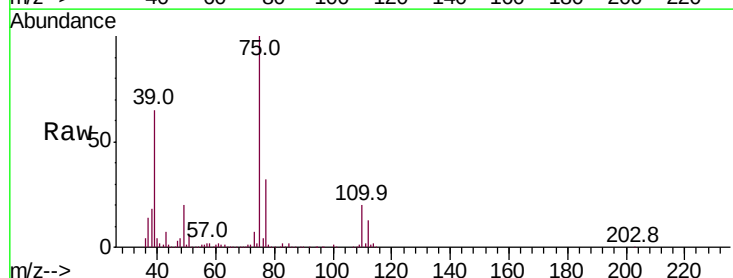
Tgt Ion: 75 Resp: 1162299

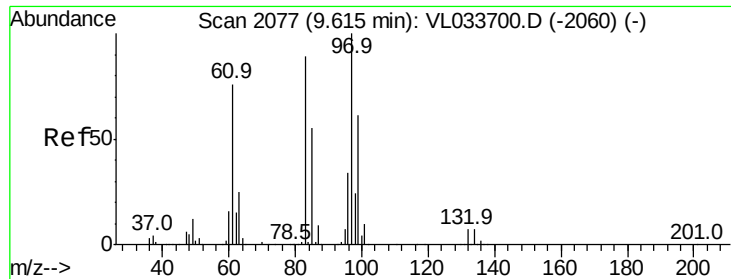
Ion Ratio Lower Upper

75 100

39 64.8 54.4 81.6

77 31.9 26.6 39.8





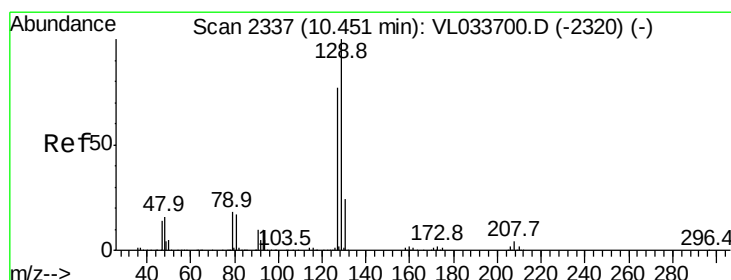
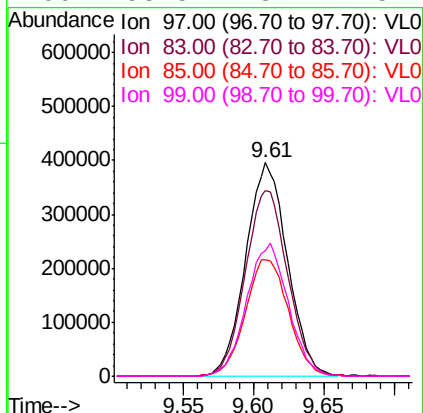
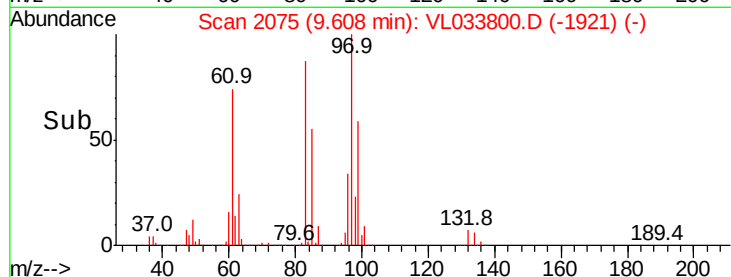
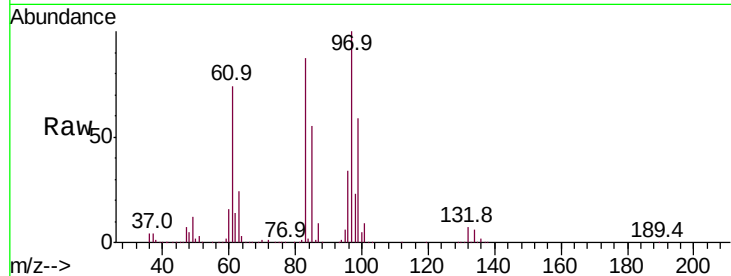
#47
 1,1,2-Trichloroethane
 Concen: 9.367 ppbv
 RT: 9.61 min Scan# 2075
 Delta R.T. -0.01 min
 Lab File: VL033800.D
 Acq: 28 May 2019 11:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0528ABS01

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	86.9	70.8	106.2	
85	54.6	43.7	65.5	
99	58.5	48.7	73.1	

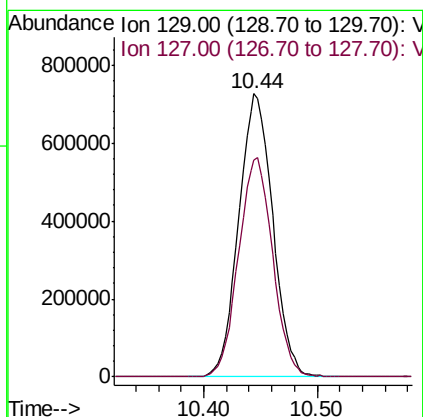
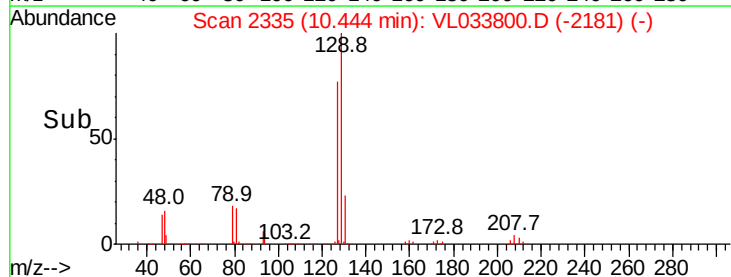
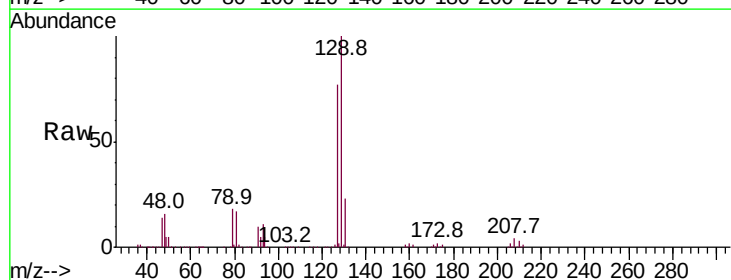
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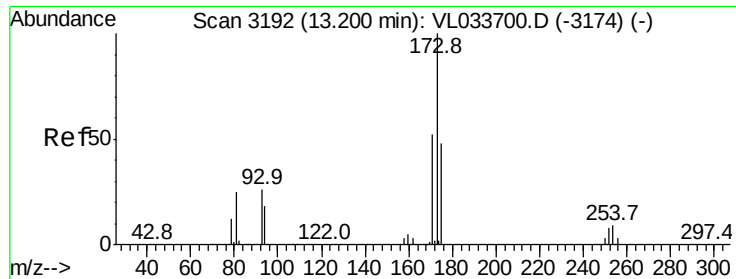
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#48
 Dibromochloromethane
 Concen: 10.041 ppbv
 RT: 10.44 min Scan# 2335
 Delta R.T. -0.01 min
 Lab File: VL033800.D
 Acq: 28 May 2019 11:08

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	77.9	38.6	116.0	





#49

Bromoform

Concen: 11.001 ppbv

RT: 13.20 min Scan# 3191

Delta R.T. -0.00 min

Lab File: VL033800.D

Acq: 28 May 2019 11:08

Instrument :

MSVOA_L

ClientSampleId :

VL0528ABS01

Tot Ion:173 Resp: 1402608

Ion Ratio Lower Upper

173 100

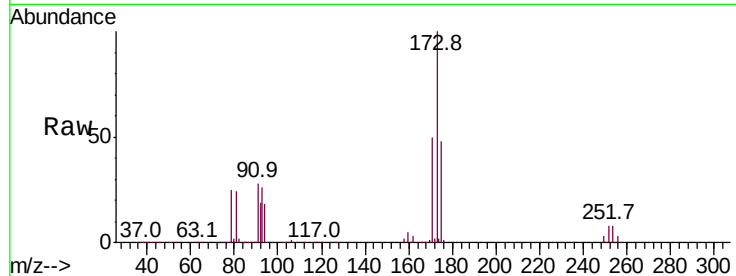
175 48.8 38.6 58.0

171 51.7 41.5 62.3

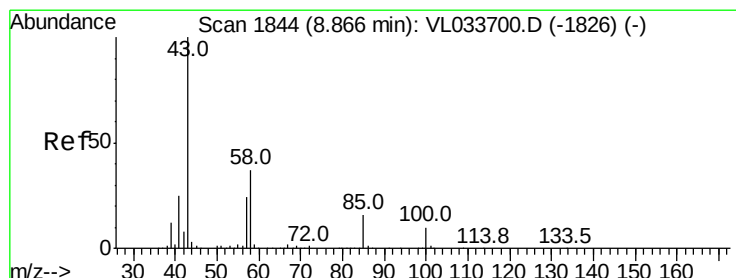
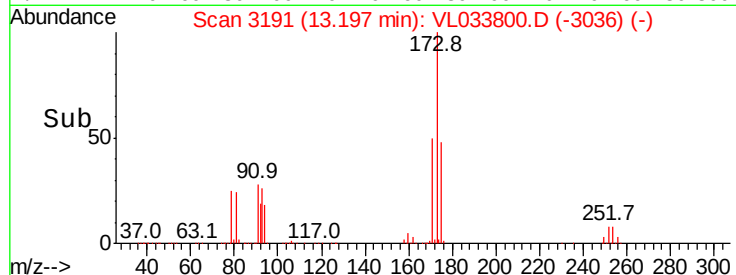
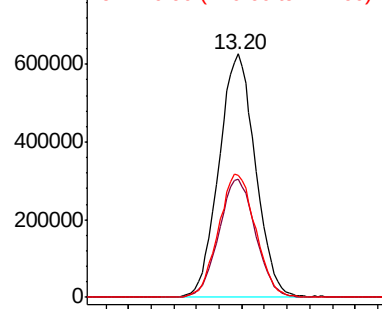
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Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 9.502 ppbv

RT: 8.86 min Scan# 1843

Delta R.T. -0.00 min

Lab File: VL033800.D

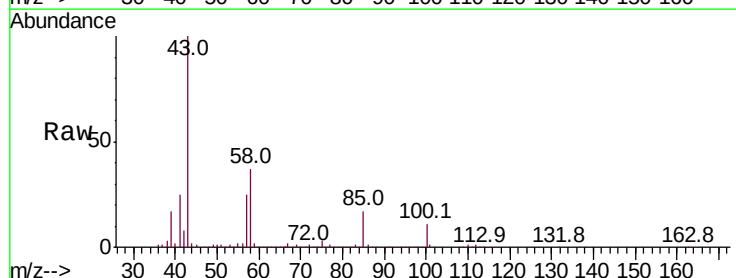
Acq: 28 May 2019 11:08

Tgt Ion: 43 Resp: 2056395

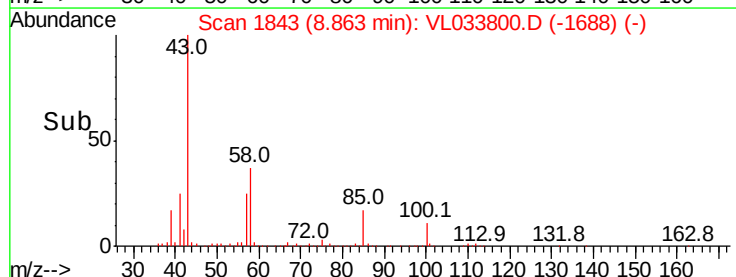
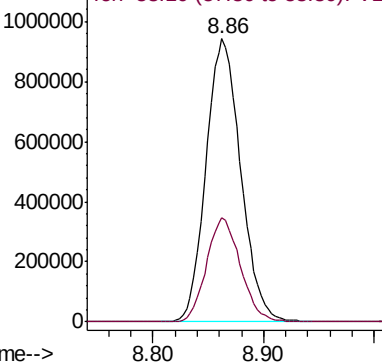
Ion Ratio Lower Upper

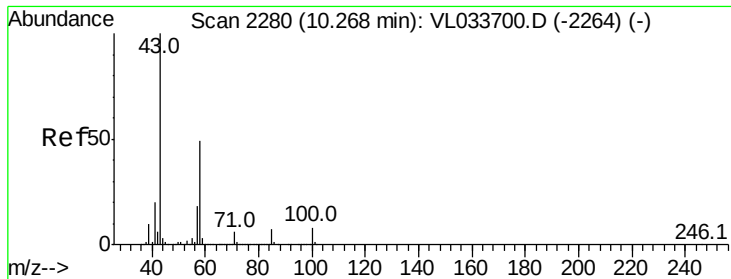
43 100

58 36.0 28.6 43.0



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





#51

2-Hexanone

Concen: 10.114 ppbv

RT: 10.26 min Scan# 2279

Delta R.T. -0.00 min

Lab File: VL033800.D

Acq: 28 May 2019 11:08

Instrument :

MSVOA_L

ClientSampleId :

VL0528ABS01

Tot Ion: 43 Resp: 1708271

Ion Ratio Lower Upper

43 100

58 48.6 38.7 58.1

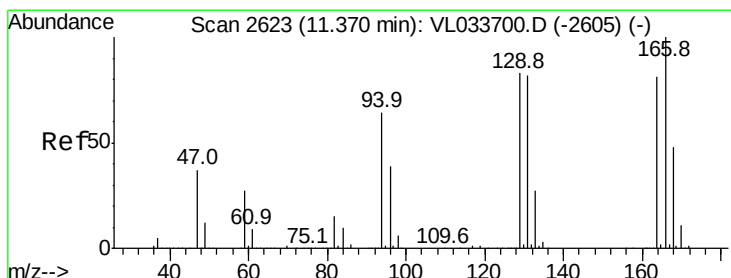
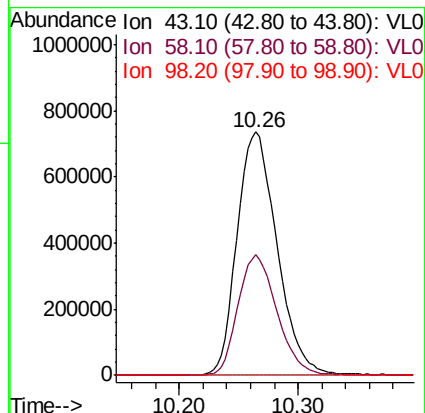
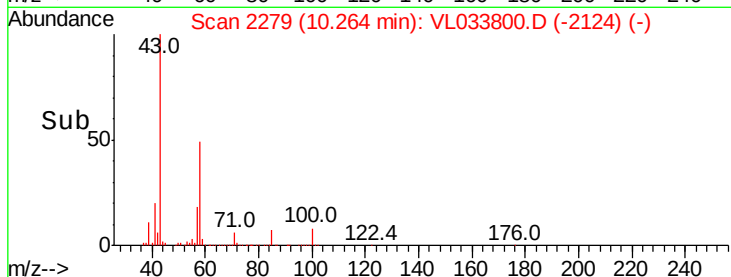
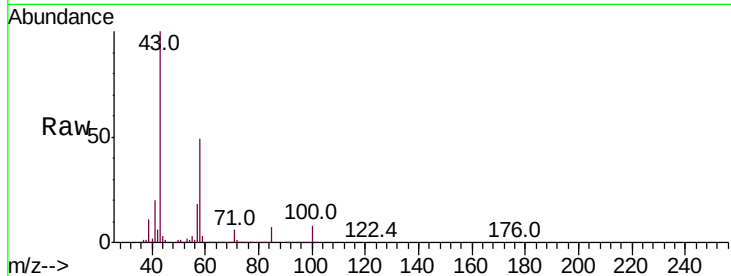
98 0.4 0.2 0.4#

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#52

Tetrachloroethene

Concen: 10.348 ppbv

RT: 11.36 min Scan# 2621

Delta R.T. -0.01 min

Lab File: VL033800.D

Acq: 28 May 2019 11:08

Tgt Ion: 164 Resp: 751074

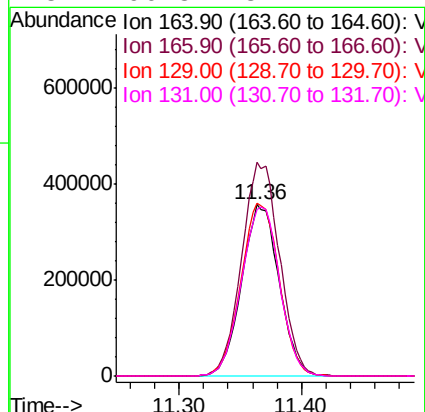
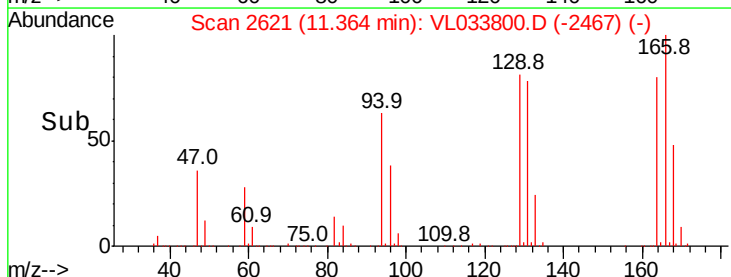
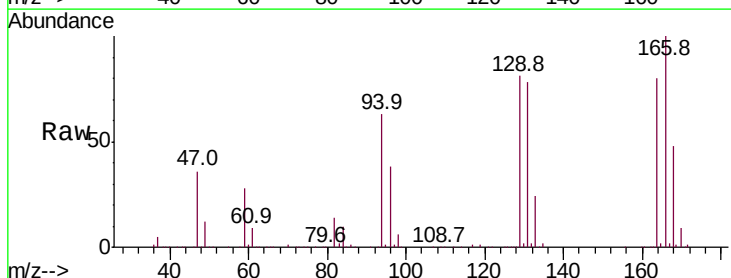
Ion Ratio Lower Upper

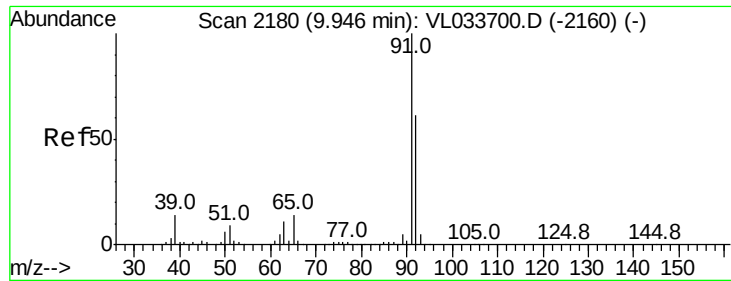
164 100

166 124.7 98.9 148.3

129 100.8 81.8 122.6

131 96.8 81.1 121.7





#53

Toluene

Concen: 10.445 ppbv

RT: 9.94 min Scan# 2178

Delta R.T. -0.01 min

Lab File: VL033800.D

Acq: 28 May 2019 11:08

Instrument :

MSVOA_L

ClientSampleID :

VL0528ABS01

Tot Ion: 91 Resp: 2326266

Ion Ratio Lower Upper

91 100

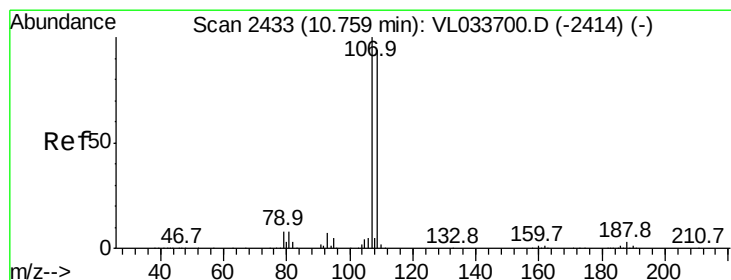
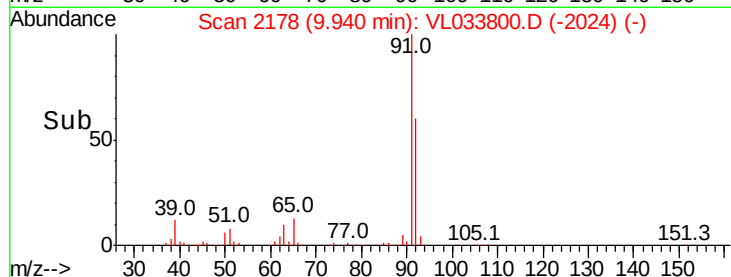
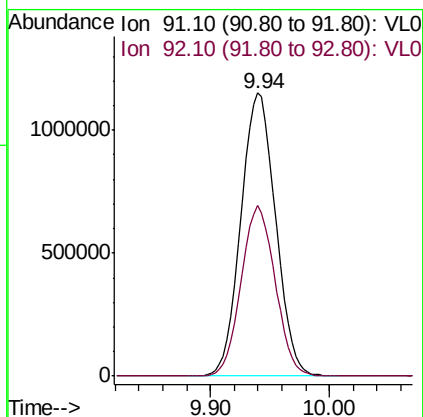
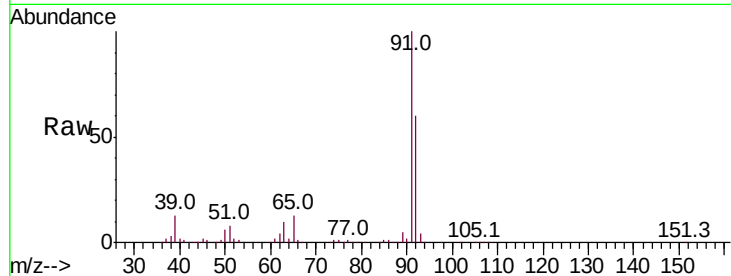
92 59.1 47.6 71.4

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#54

1,2-Dibromoethane

Concen: 9.714 ppbv

RT: 10.75 min Scan# 2431

Delta R.T. -0.01 min

Lab File: VL033800.D

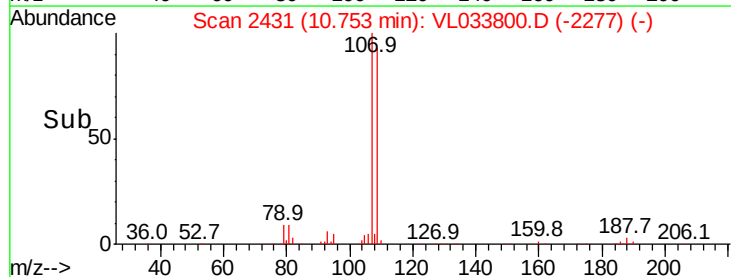
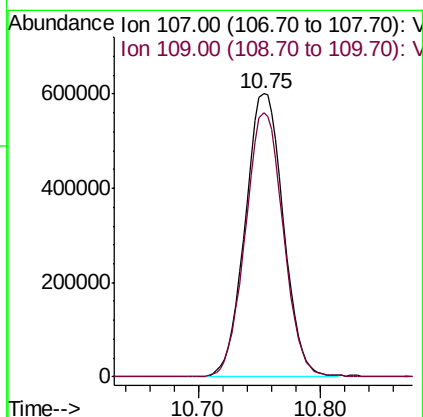
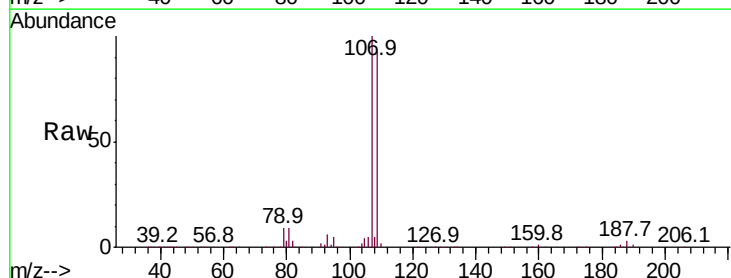
Acq: 28 May 2019 11:08

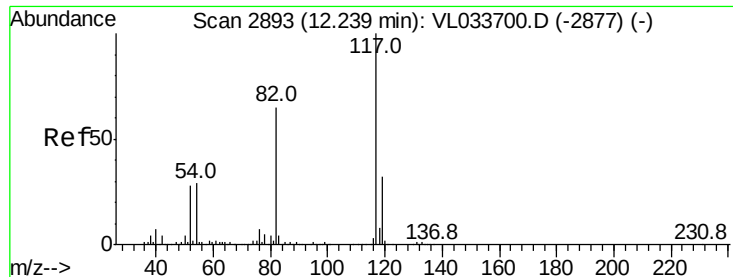
Tgt Ion: 107 Resp: 1296408

Ion Ratio Lower Upper

107 100

109 93.3 75.2 112.8





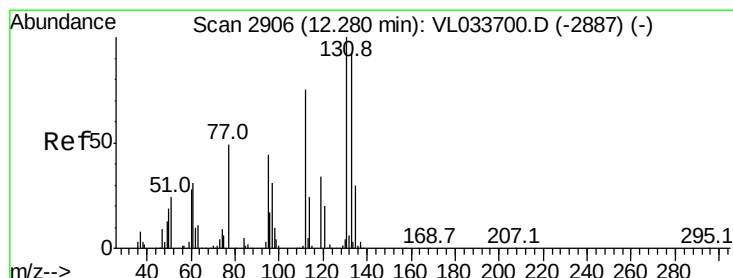
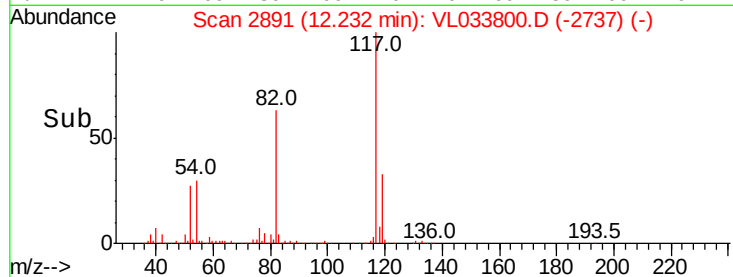
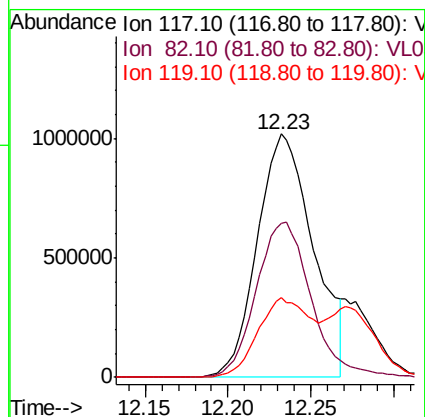
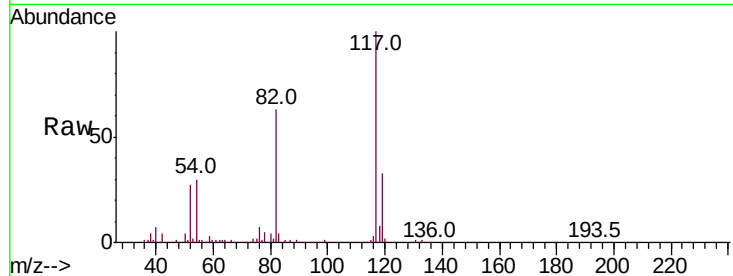
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.23 min Scan# 2891
Delta R.T. -0.01 min
Lab File: VL033800.D
Acq: 28 May 2019 11:08

Instrument :
MSVOA_L
ClientSampleId :
VL0528ABS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	62.9	49.4	74.0
119	32.5	24.9	37.3

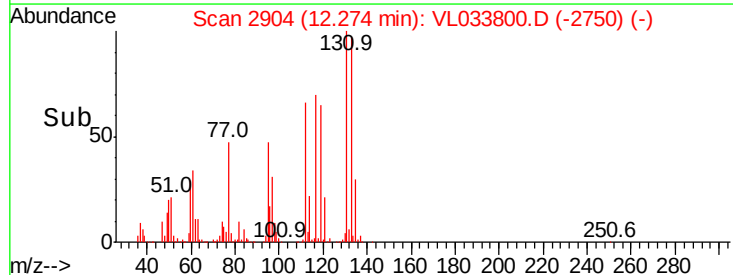
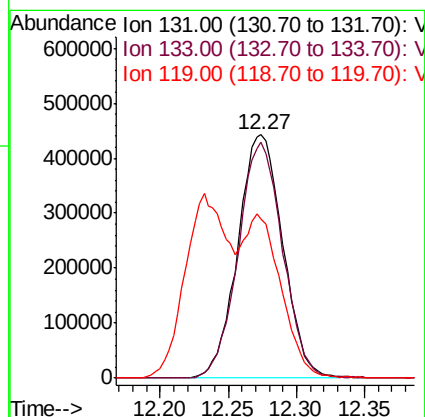
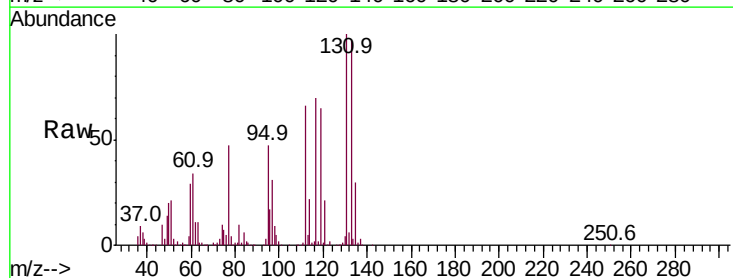
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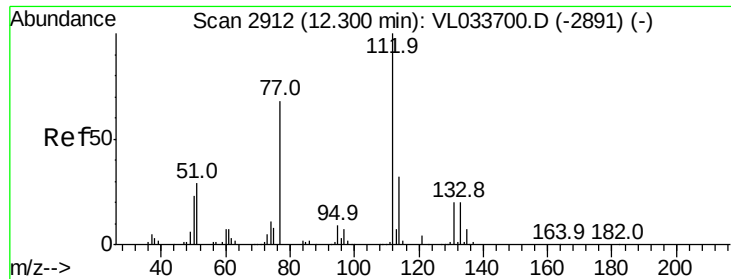
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.130 ppbv
RT: 12.27 min Scan# 2904
Delta R.T. -0.01 min
Lab File: VL033800.D
Acq: 28 May 2019 11:08

Tgt Ion	Ratio	Lower	Upper
131	100		
133	96.0	76.6	114.8
119	55.0	49.0	73.4





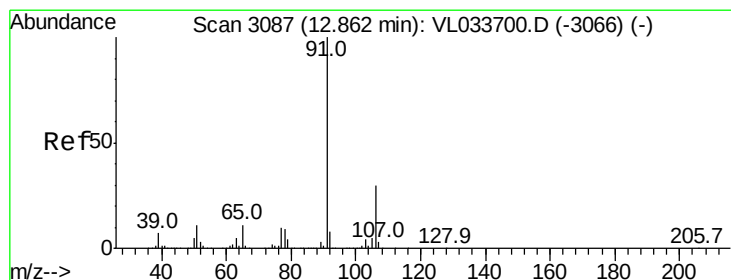
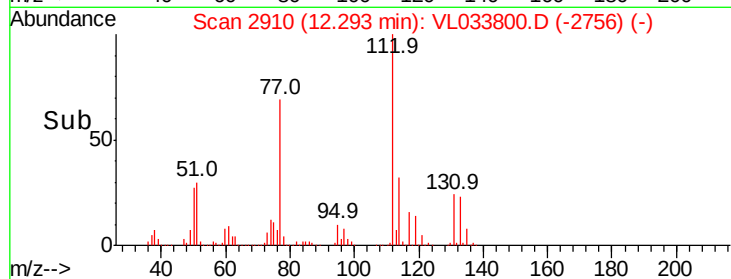
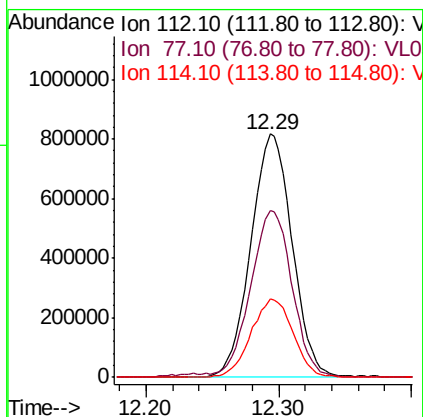
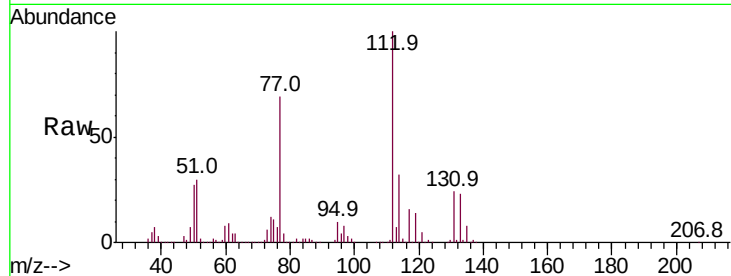
#57
Chlorobenzene
Concen: 8.964 ppbv
RT: 12.29 min Scan# 2910
Delta R.T. -0.01 min
Lab File: VL033800.D
Acq: 28 May 2019 11:08

Instrument :
MSVOA_L
ClientSampleId :
VL0528ABS01

Tot Ion	Ratio	Lower	Upper
112	100		
77	68.1	55.4	83.0
114	32.1	29.3	35.8

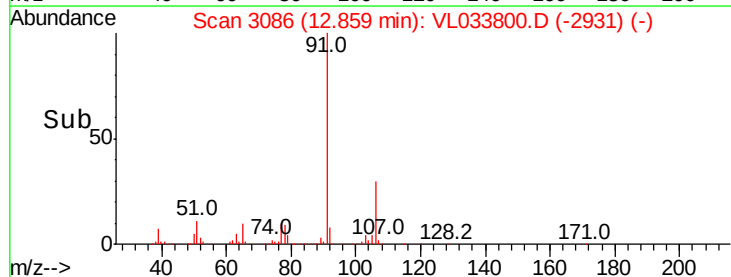
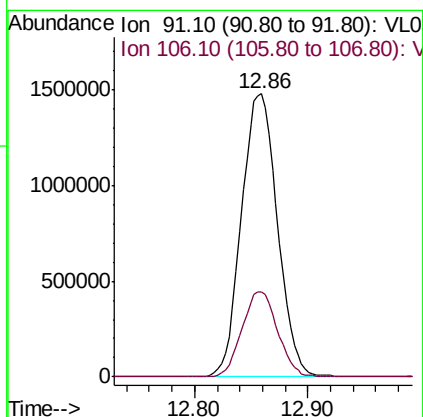
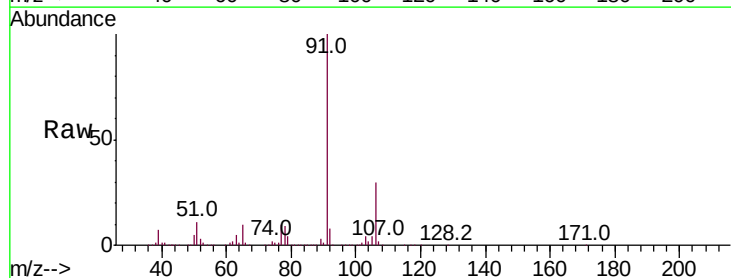
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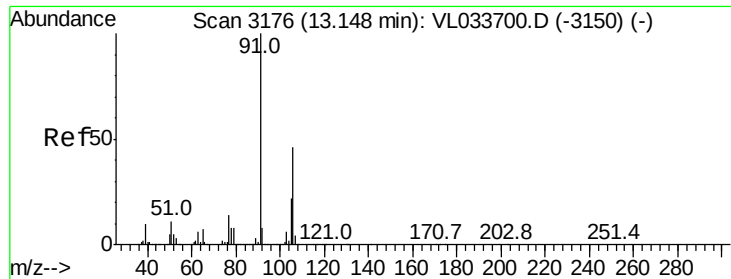
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#58
Ethyl Benzene
Concen: 10.313 ppbv
RT: 12.86 min Scan# 3086
Delta R.T. -0.00 min
Lab File: VL033800.D
Acq: 28 May 2019 11:08

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.9	23.9	35.9





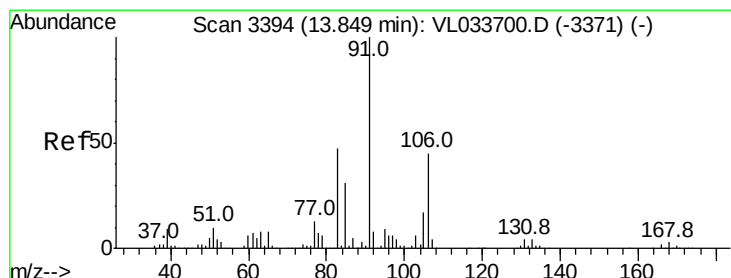
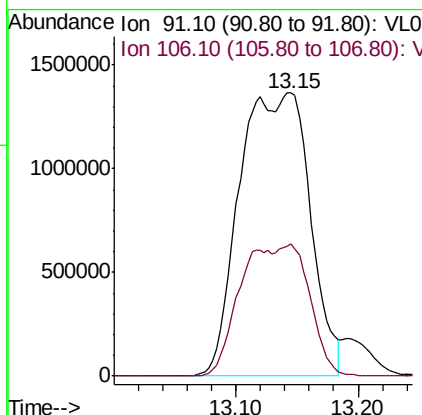
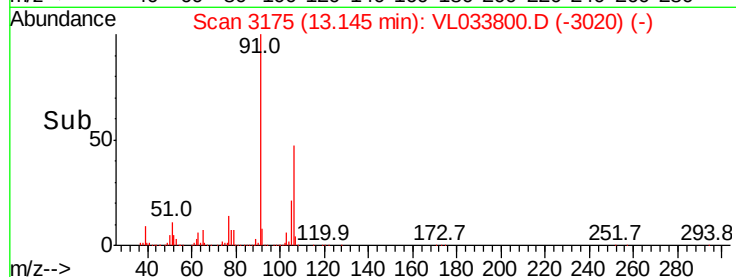
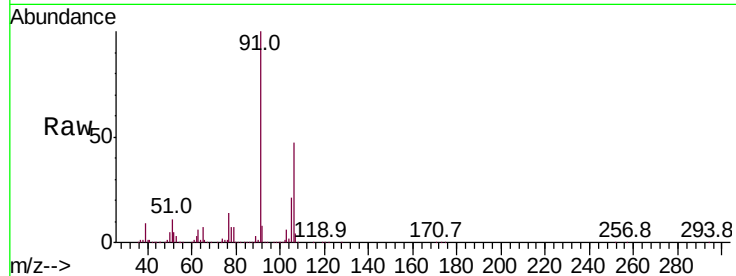
#59
m/p-Xylene
Concen: 19.645 ppbv m
RT: 13.15 min Scan# 3175
Delta R.T. -0.00 min
Lab File: VL033800.D
Acq: 28 May 2019 11:08

Instrument :
MSVOA_L
ClientSampleId :
VL0528ABS01

Tot Ion: 91 Resp: 5450057
Ion Ratio Lower Upper
91 100
106 45.6 35.8 53.6

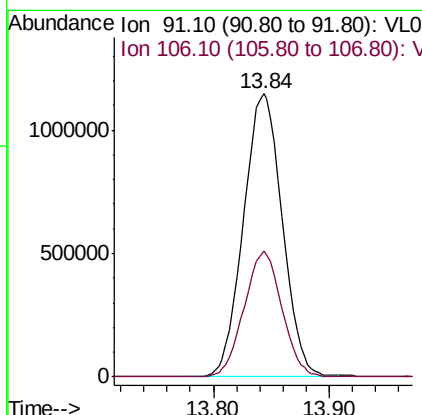
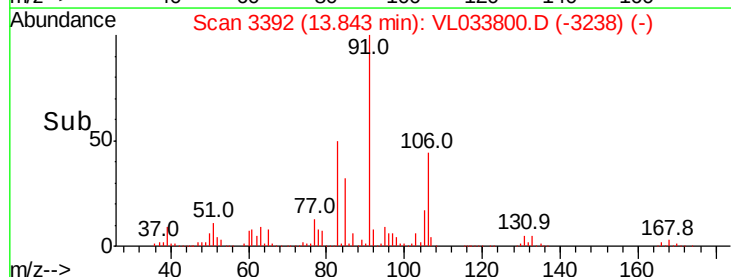
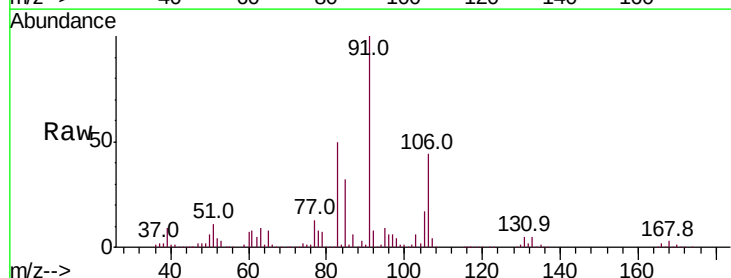
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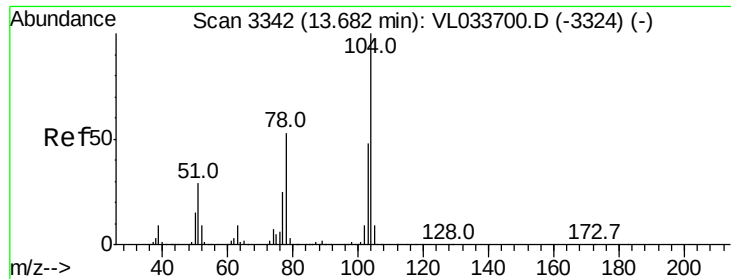
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#60
o-Xylene
Concen: 9.543 ppbv
RT: 13.84 min Scan# 3392
Delta R.T. -0.01 min
Lab File: VL033800.D
Acq: 28 May 2019 11:08

Tgt Ion: 91 Resp: 2668888
Ion Ratio Lower Upper
91 100
106 43.7 21.6 64.8





#61

Stvrene

Concen: 10.656 ppbv

RT: 13.68 min Scan# 3340

Delta R.T. -0.01 min

Lab File: VL033800.D

Acq: 28 May 2019 11:08

Instrument :

MSVOA_L

ClientSampleId :

VL0528ABS01

Tot Ion:104 Resp: 2006462

Ion Ratio Lower Upper

104 100

78 53.2 42.6 64.0

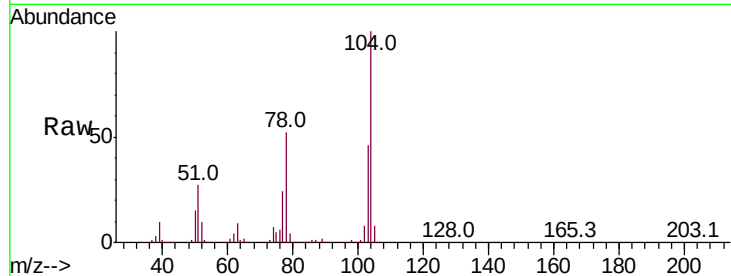
103 46.8 37.8 56.6

Manual Integrations

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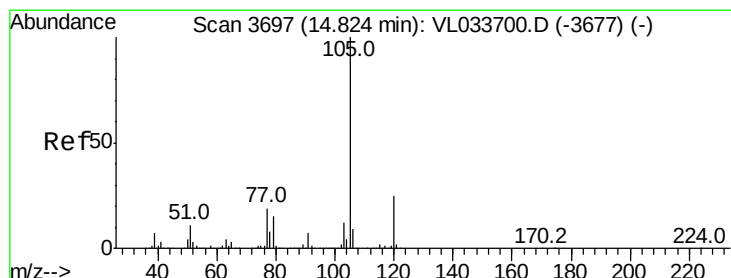
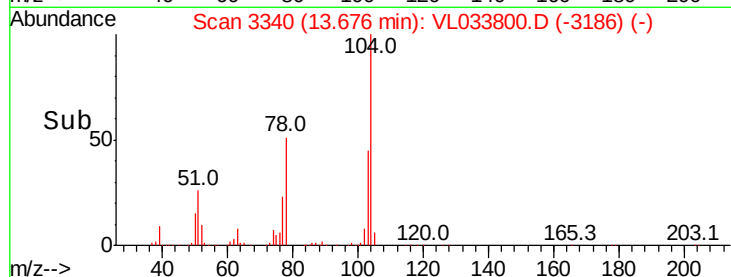
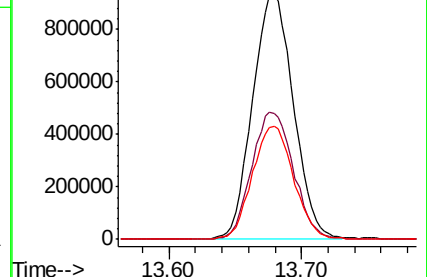
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Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 9.875 ppbv

RT: 14.82 min Scan# 3696

Delta R.T. -0.00 min

Lab File: VL033800.D

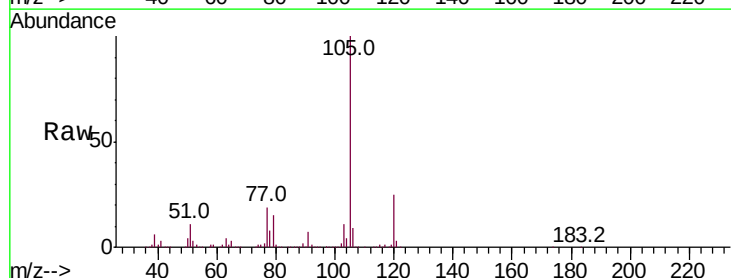
Acq: 28 May 2019 11:08

Tgt Ion:105 Resp: 3719180

Ion Ratio Lower Upper

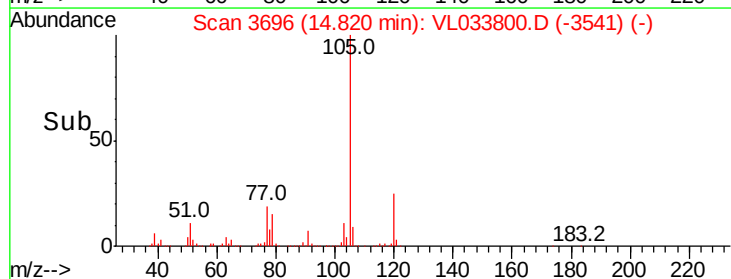
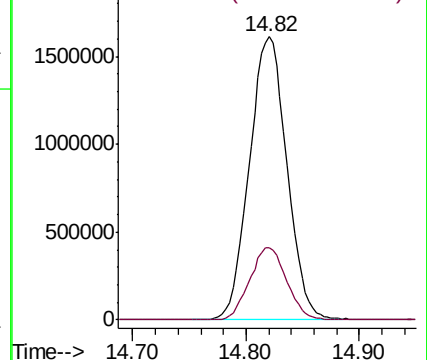
105 100

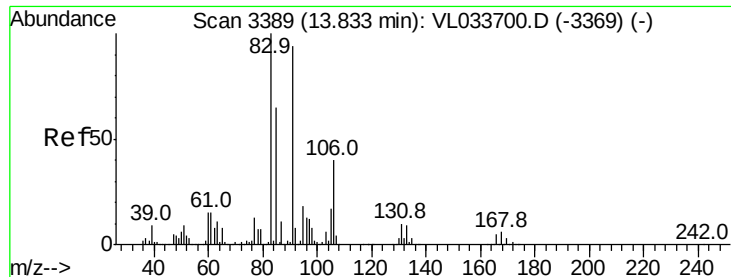
120 25.1 20.1 30.1



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: 9.188 ppbv m

RT: 13.83 min Scan# 3387

Delta R.T. -0.01 min

Lab File: VL033800.D

Acq: 28 May 2019 11:08

Instrument :

MSVOA_L

ClientSampleId :

VL0528ABS01

Tot Ion: 83 Resp: 1868643

Ion Ratio Lower Upper

83 100

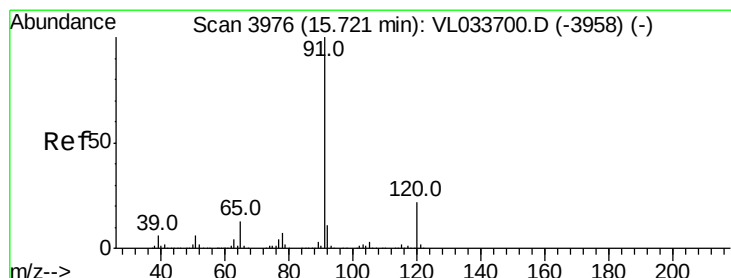
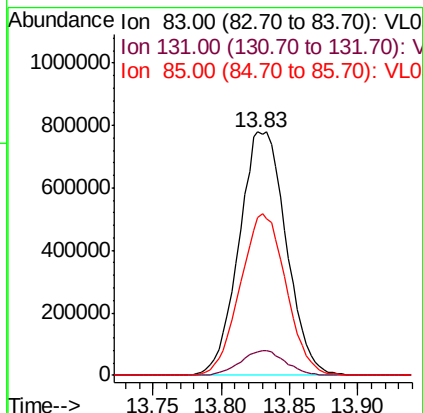
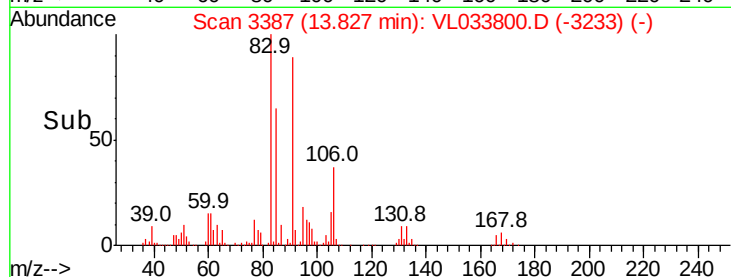
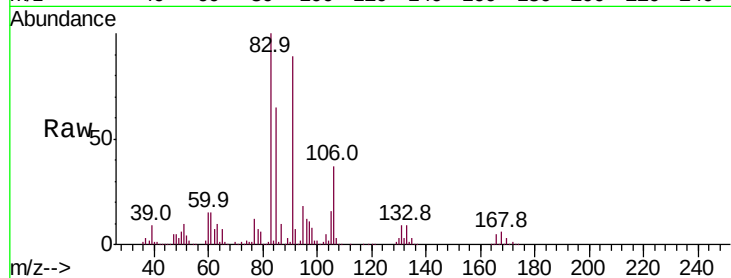
131 0.0 4.8 14.3#

85 0.0 32.3 96.9#

Manual Integrations
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#64

n-propylbenzene

Concen: 10.011 ppbv

RT: 15.71 min Scan# 3974

Delta R.T. -0.01 min

Lab File: VL033800.D

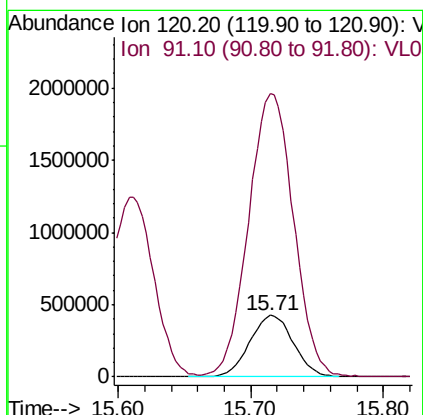
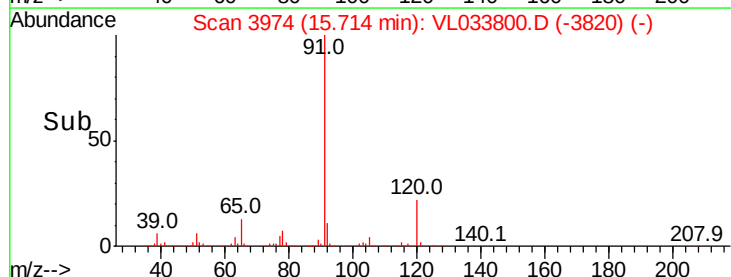
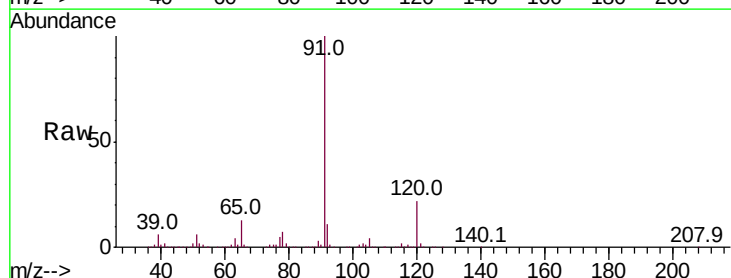
Acq: 28 May 2019 11:08

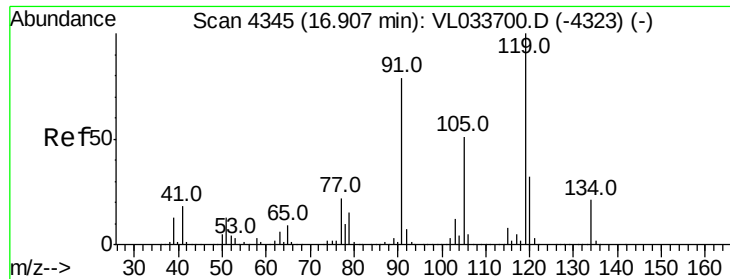
Tgt Ion: 120 Resp: 975229

Ion Ratio Lower Upper

120 100

91 475.9 379.1 568.7





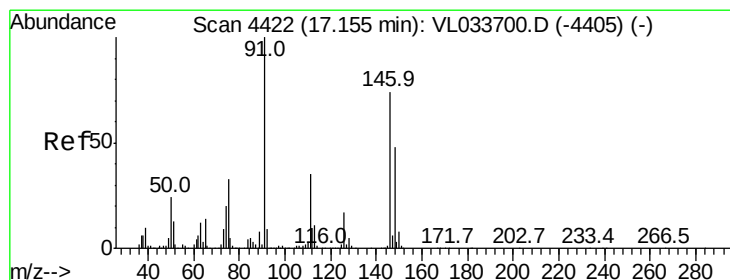
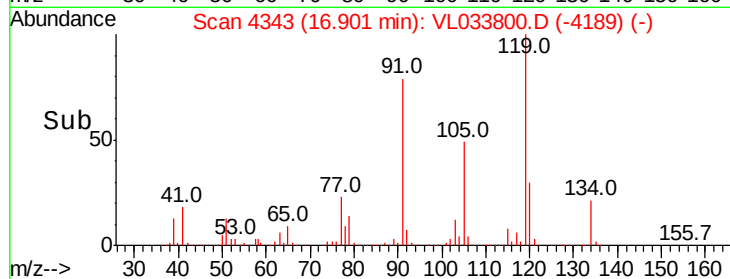
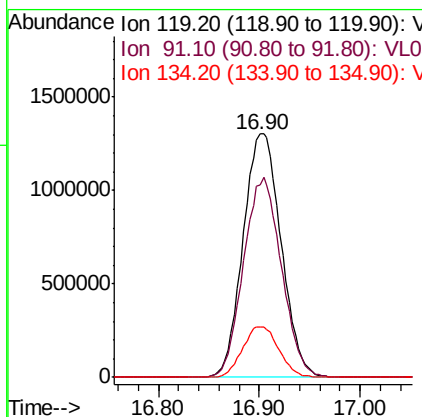
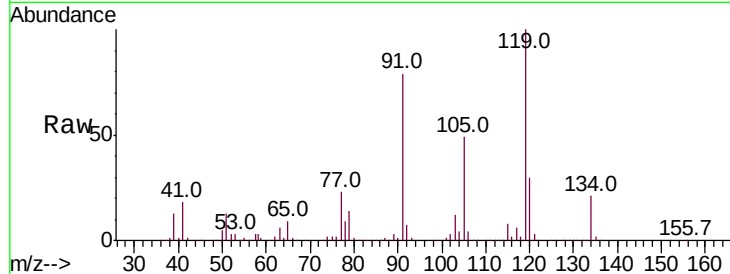
#65
 tert-Butylbenzene
 Concen: 9.887 ppbv
 RT: 16.90 min Scan# 4343
 Delta R.T. -0.01 min
 Lab File: VL033800.D
 Acq: 28 May 2019 11:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0528ABS01

Tot Ion:119 Resp: 3399673
 Ion Ratio Lower Upper
 119 100
 91 82.0 65.3 97.9
 134 19.8 15.7 23.5

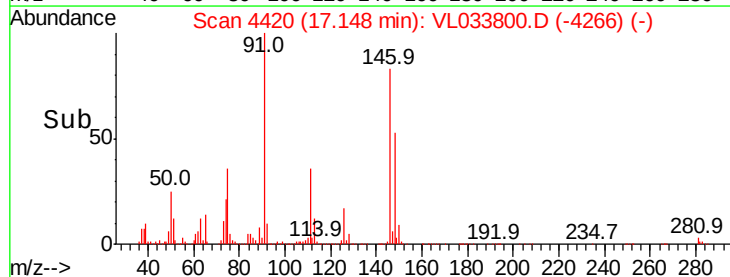
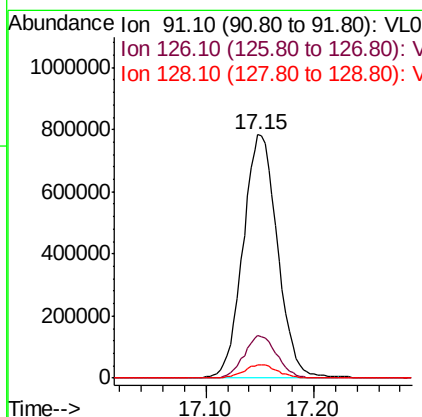
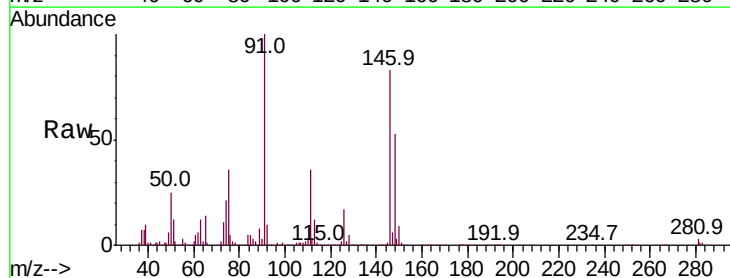
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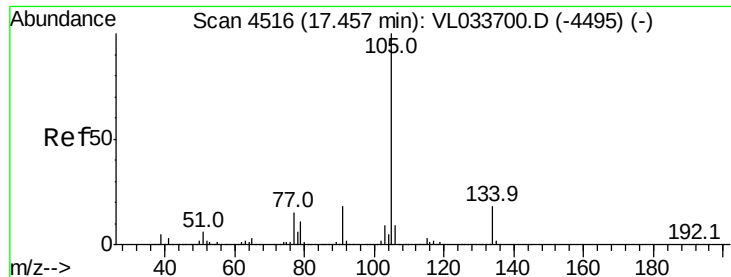
apatel
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#66
 Benzyl Chloride
 Concen: 10.570 ppbv
 RT: 17.15 min Scan# 4420
 Delta R.T. -0.01 min
 Lab File: VL033800.D
 Acq: 28 May 2019 11:08

Tgt Ion: 91 Resp: 1731108
 Ion Ratio Lower Upper
 91 100
 126 16.9 13.5 20.3
 128 5.4 4.3 6.5





#67

sec-Butylbenzene

Concen: 9.915 ppbv

RT: 17.45 min Scan# 4514

Delta R.T. -0.01 min

Lab File: VL033800.D

Acq: 28 May 2019 11:08

Instrument :

MSVOA_L

ClientSampleId :

VL0528ABS01

Tot Ion:105 Resp: 4771979

Ion Ratio Lower Upper

105 100

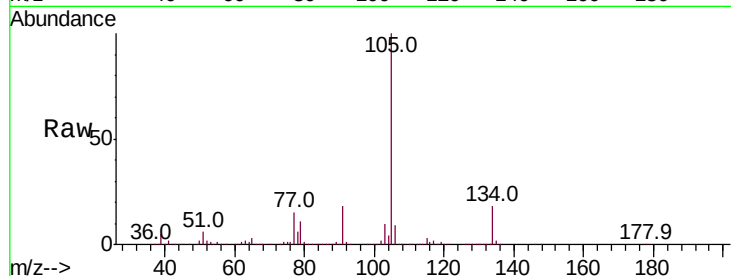
134 18.2 14.6 22.0

Manual Integrations

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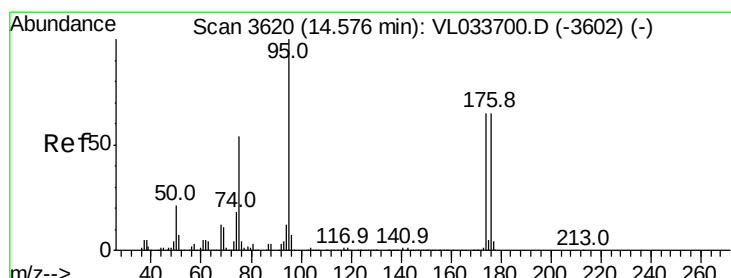
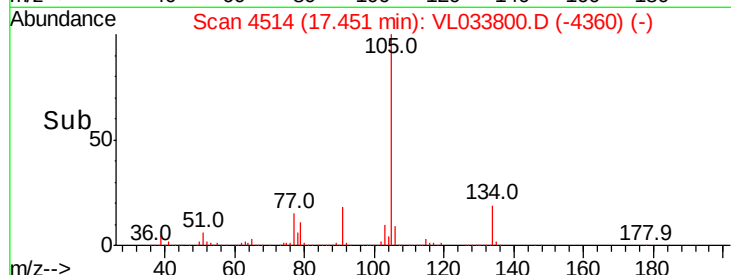
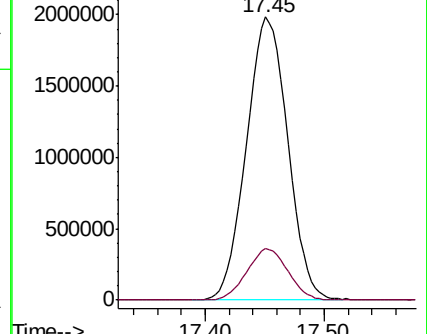
apatel

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.701 ppbv

RT: 14.57 min Scan# 3618

Delta R.T. -0.01 min

Lab File: VL033800.D

Acq: 28 May 2019 11:08

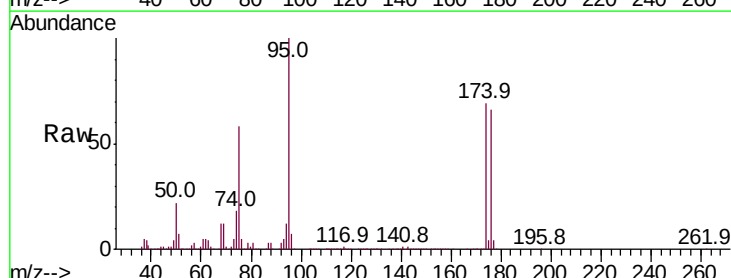
Tgt Ion: 95 Resp: 1884821

Ion Ratio Lower Upper

95 100

174 68.1 53.9 80.9

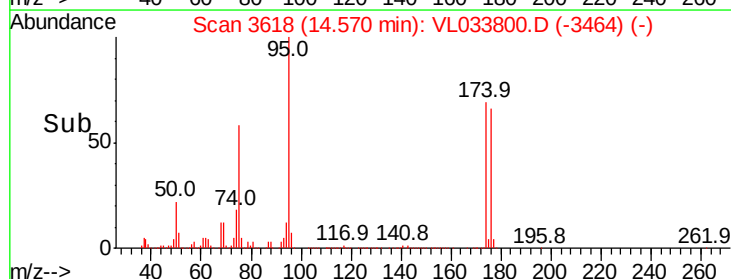
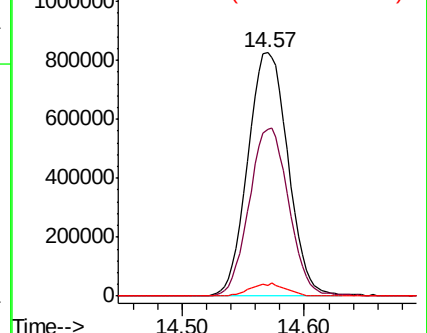
175 4.7 3.8 5.8

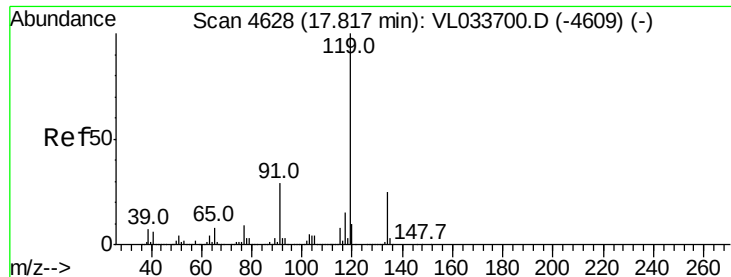


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





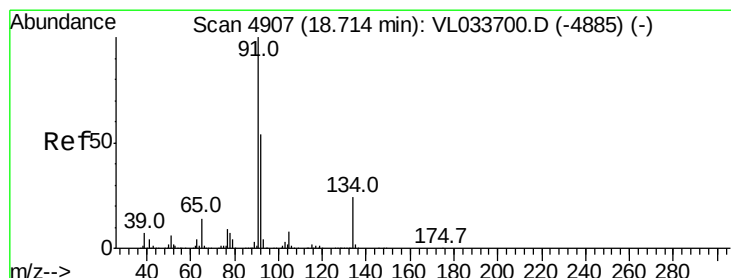
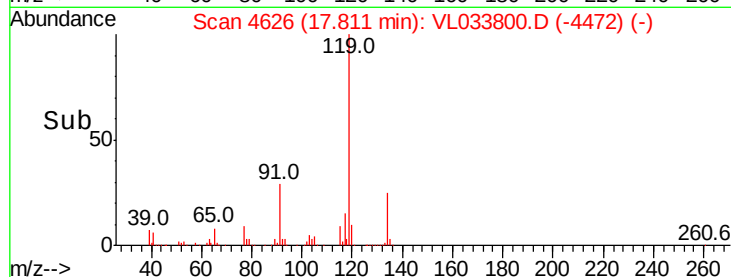
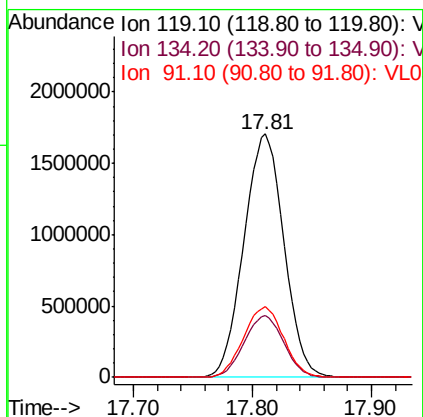
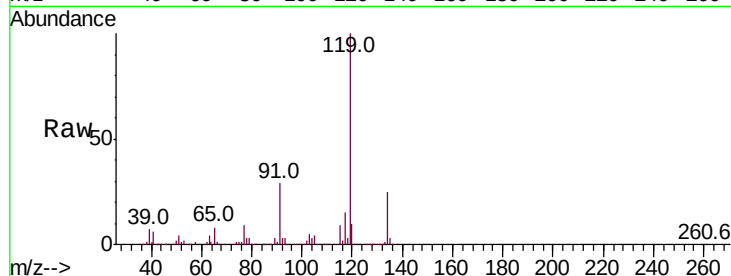
#69
 p-Isopropyltoluene
 Concen: 9.998 ppbv
 RT: 17.81 min Scan# 4626
 Delta R.T. -0.01 min
 Lab File: VL033800.D
 Acq: 28 May 2019 11:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0528ABS01

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.1	20.3	30.5
91	29.1	23.1	34.7

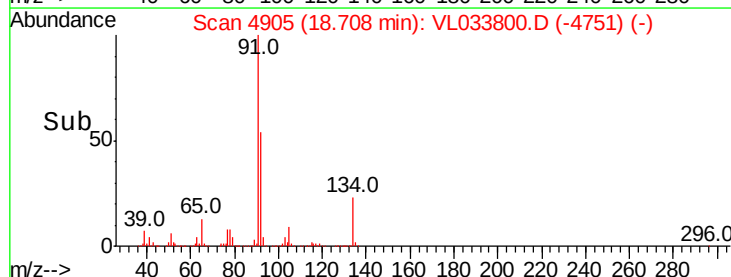
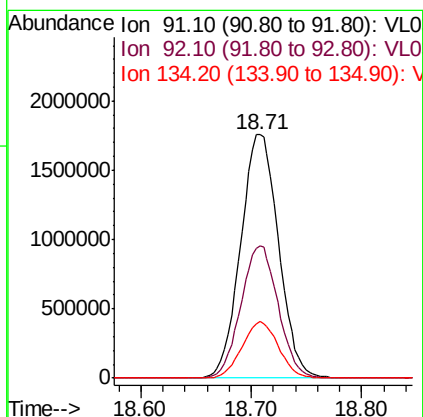
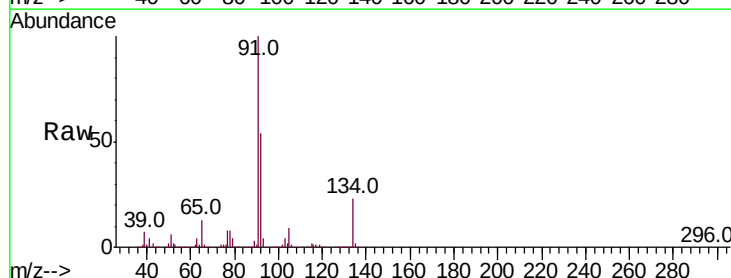
Manual Integrations
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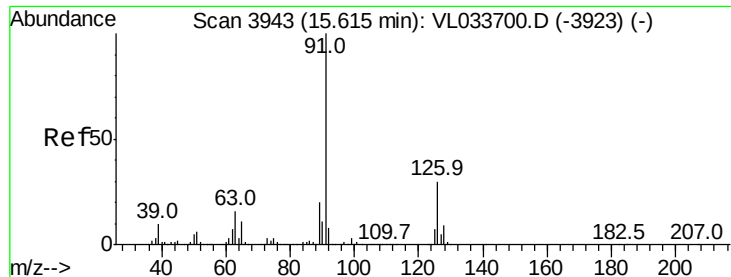
apatel
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#70
 n-Butylbenzene
 Concen: 9.798 ppbv
 RT: 18.71 min Scan# 4905
 Delta R.T. -0.01 min
 Lab File: VL033800.D
 Acq: 28 May 2019 11:08

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.4	42.6	63.8
134	22.4	18.1	27.1





#71

2-Chlorotoluene

Concen: 10.209 ppbv

RT: 15.61 min Scan# 3942

Delta R.T. -0.00 min

Lab File: VL033800.D

Acq: 28 May 2019 11:08

Instrument :

MSVOA_L

ClientSampleId :

VL0528ABS01

Tot Ion: 91 Resp: 2852677

Ion Ratio Lower Upper

91 100

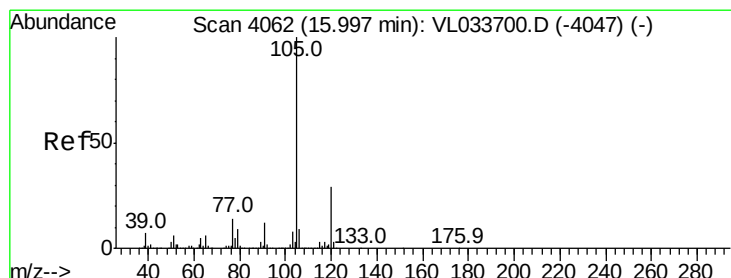
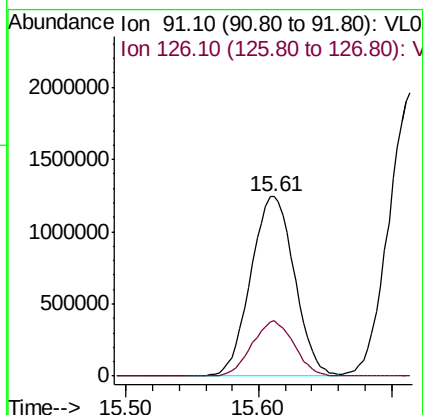
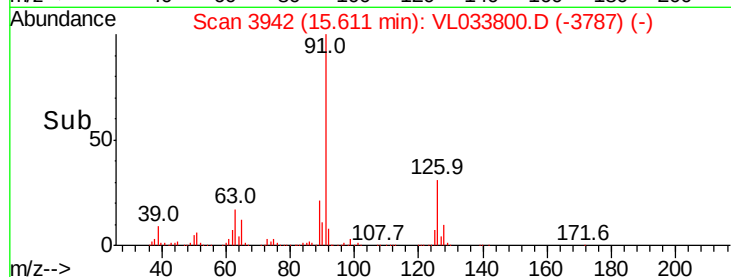
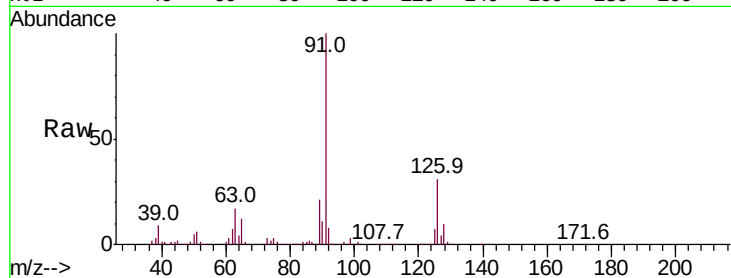
126 29.8 12.0 47.8

Manual Integrations

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#72

4-Ethyltoluene

Concen: 10.601 ppbv

RT: 15.99 min Scan# 4061

Delta R.T. -0.00 min

Lab File: VL033800.D

Acq: 28 May 2019 11:08

Tgt Ion:105 Resp: 3389616

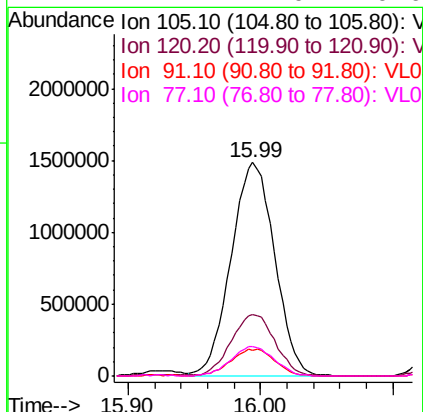
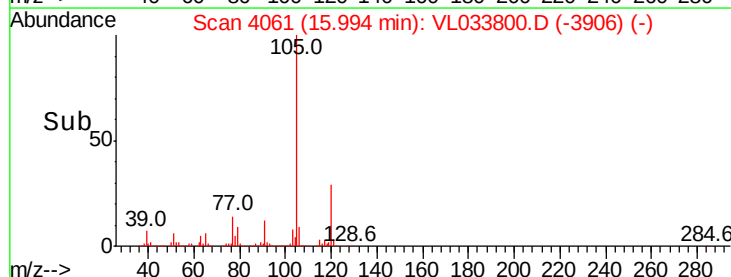
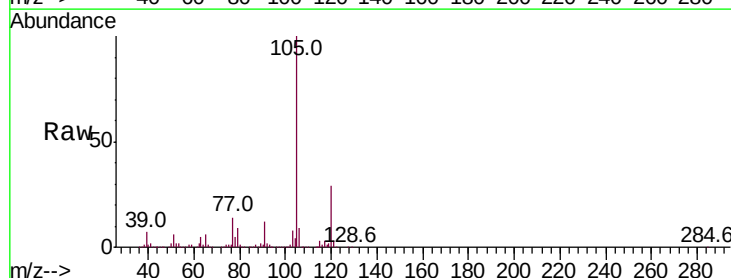
Ion Ratio Lower Upper

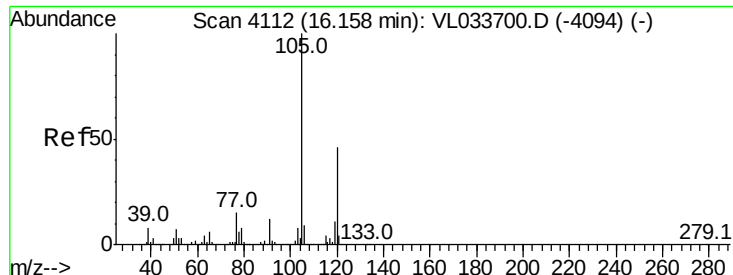
105 100

120 29.2 23.1 34.7

91 12.9 10.4 15.6

77 14.2 11.0 16.6





#73

1,3,5-Trimethylbenzene

Concen: 10.675 ppbv

RT: 16.15 min Scan# 4110

Delta R.T. -0.01 min

Lab File: VL033800.D

Acq: 28 May 2019 11:08

Instrument :

MSVOA_L

ClientSampleId :

VL0528ABS01

Tot Ion:105 Resp: 3330543

Ion Ratio Lower Upper

105 100

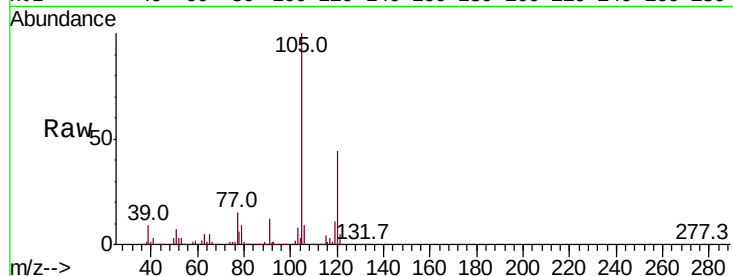
120 44.4 37.0 55.4

Manual Integrations

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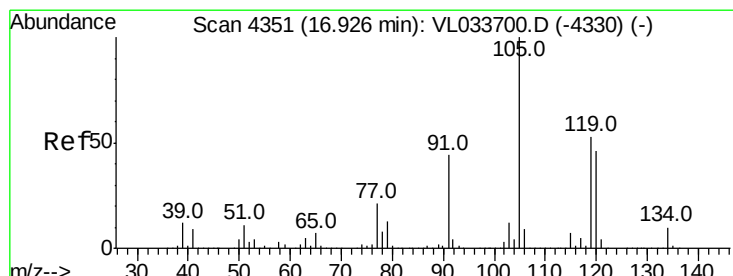
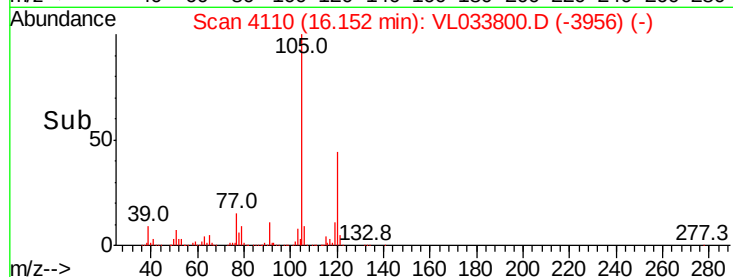
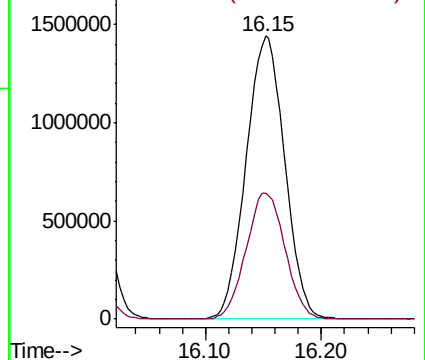
apatel

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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: 9.666 ppbv

RT: 16.92 min Scan# 4349

Delta R.T. -0.01 min

Lab File: VL033800.D

Acq: 28 May 2019 11:08

Tgt Ion:105 Resp: 3282067

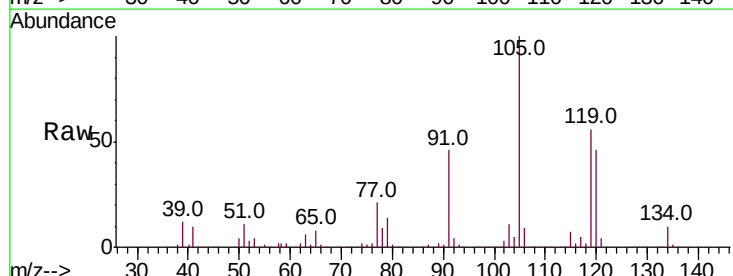
Ion Ratio Lower Upper

105 100

120 46.3 36.8 55.2

91 46.2 35.4 53.0

77 21.0 16.8 25.2

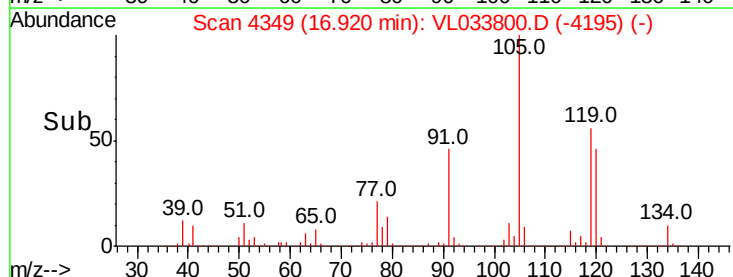
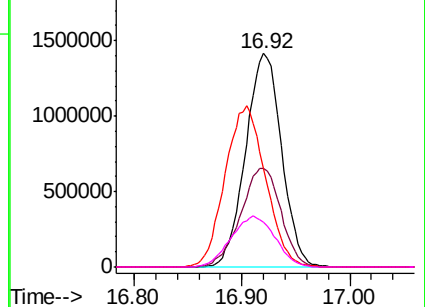


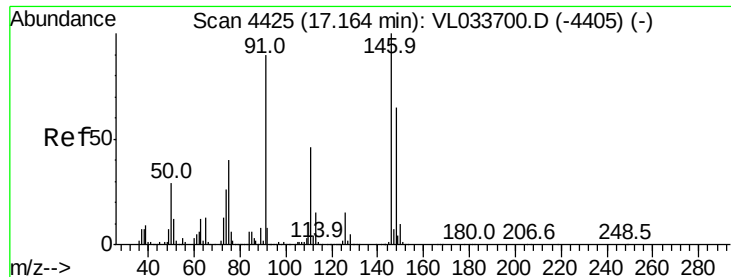
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): V

Ion 77.10 (76.80 to 77.80): V





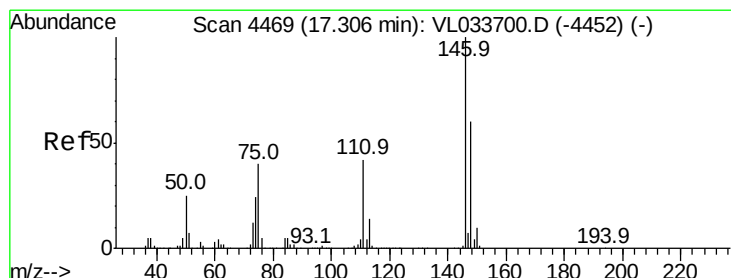
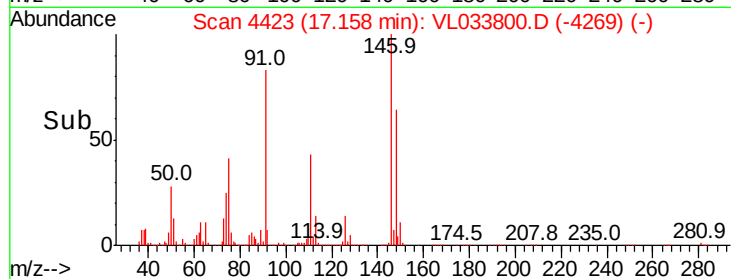
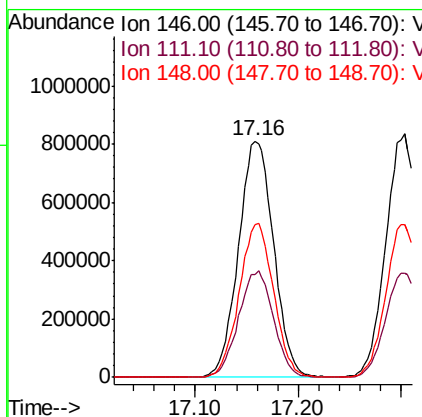
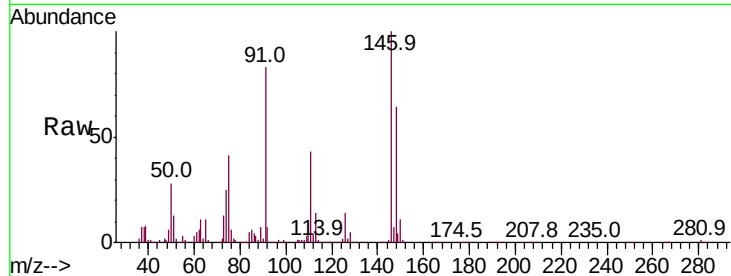
#75
 1,3-Dichlorobenzene
 Concen: 9.255 ppbv
 RT: 17.16 min Scan# 4423
 Delta R.T. -0.01 min
 Lab File: VL033800.D
 Acq: 28 May 2019 11:08

Instrument :
 MSVOA_L
 ClientSampleID :
 VL0528ABS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.8	22.9	68.8
148	63.8	32.0	96.2

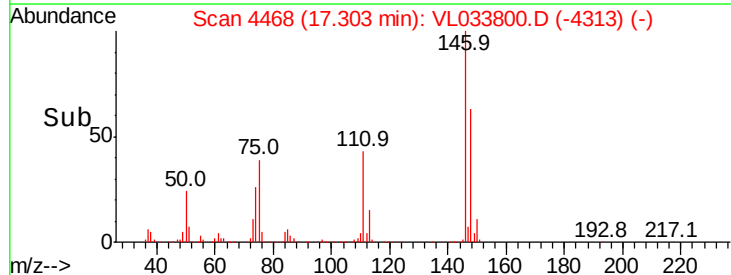
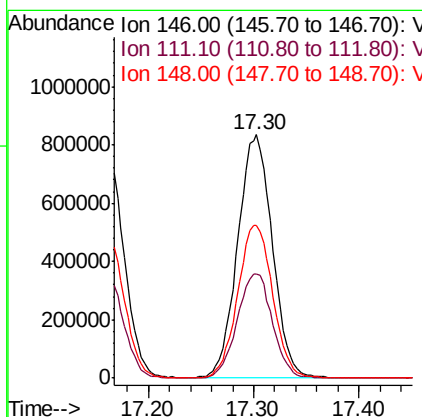
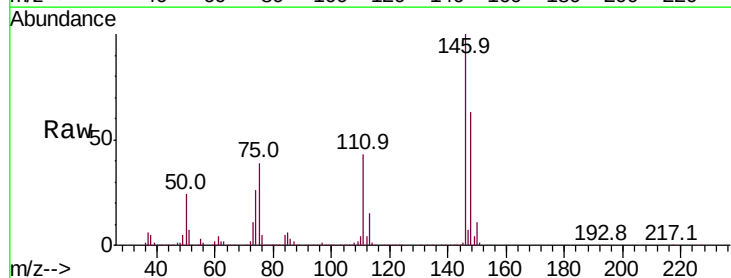
Manual Integrations
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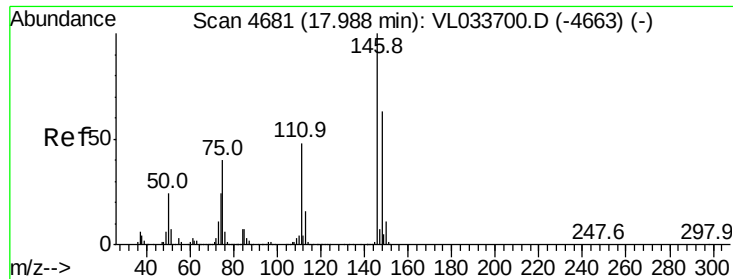
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#76
 1,4-Dichlorobenzene
 Concen: 9.598 ppbv
 RT: 17.30 min Scan# 4468
 Delta R.T. -0.00 min
 Lab File: VL033800.D
 Acq: 28 May 2019 11:08

Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.2	21.9	65.8
148	64.0	32.1	96.3





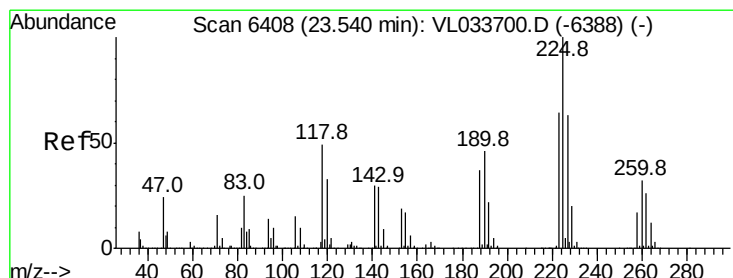
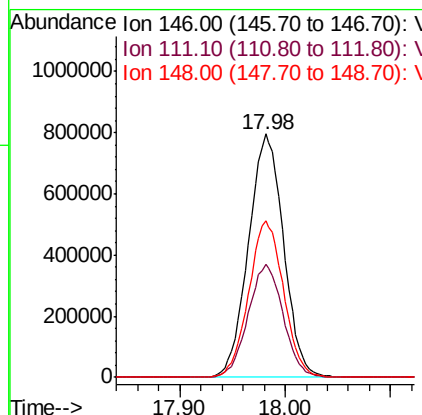
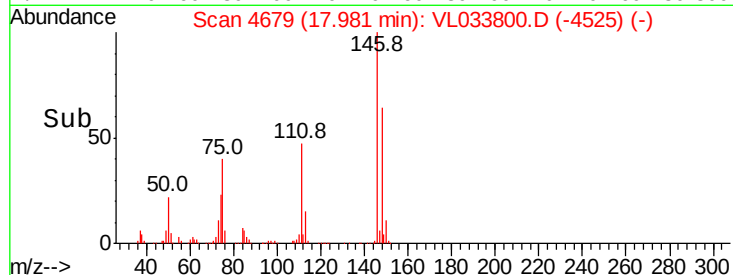
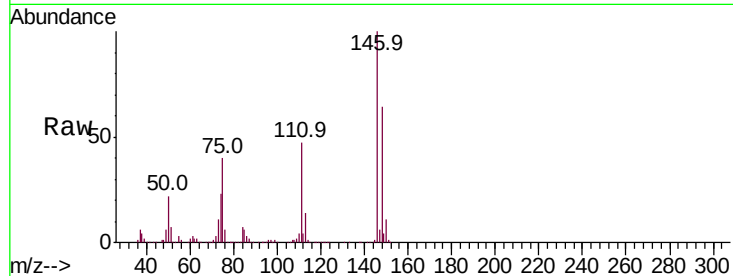
#77
 1,2-Dichlorobenzene
 Concen: 9.431 ppbv
 RT: 17.98 min Scan# 4679
 Delta R.T. -0.01 min
 Lab File: VL033800.D
 Acq: 28 May 2019 11:08

Instrument :
 MSVOA_L
 ClientSampleID :
 VL0528ABS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	46.3	23.5	70.5
148	63.8	32.1	96.3

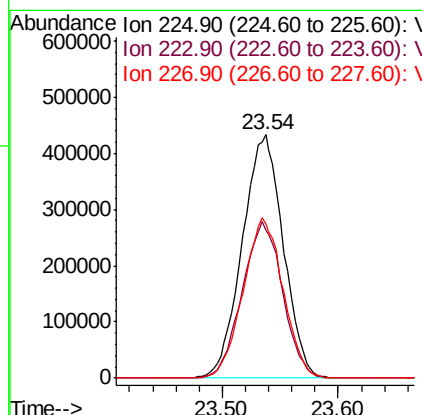
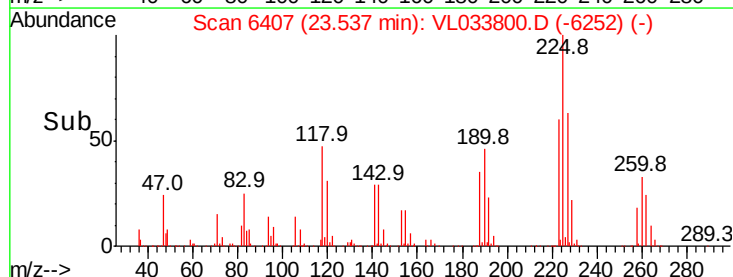
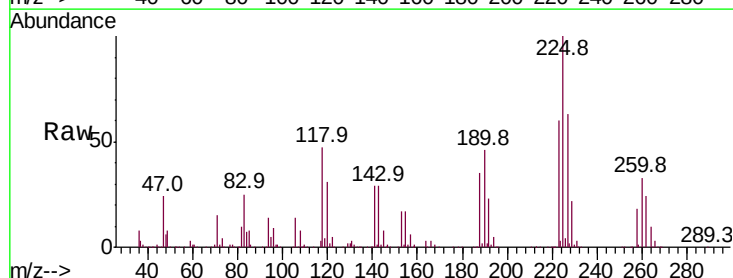
Manual Integrations
 APPROVED

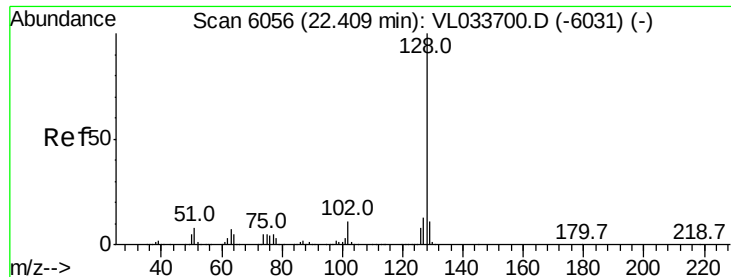
apatel
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#78
 Hexachloro-1,3-Butadiene
 Concen: 7.186 ppbv
 RT: 23.54 min Scan# 6407
 Delta R.T. -0.00 min
 Lab File: VL033800.D
 Acq: 28 May 2019 11:08

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.4	50.2	75.4
227	64.2	50.7	76.1





#79

Naphthalene

Concen: 7.834 ppbv

RT: 22.40 min Scan# 6054

Delta R.T. -0.01 min

Lab File: VL033800.D

Acq: 28 May 2019 11:08

Instrument :

MSVOA_L

ClientSampleId :

VL0528ABS01

Tot Ion:128 Resp: 2470499

Ion Ratio Lower Upper

128 100

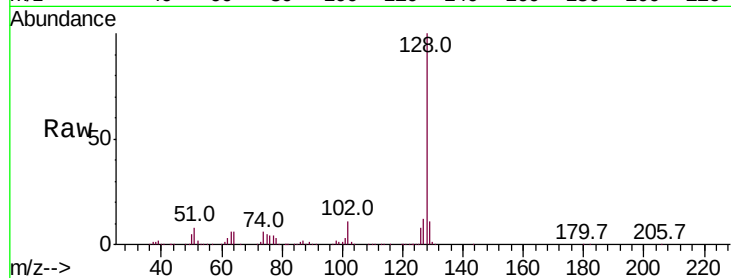
127 12.3 10.6 16.0

129 11.2 8.9 13.3

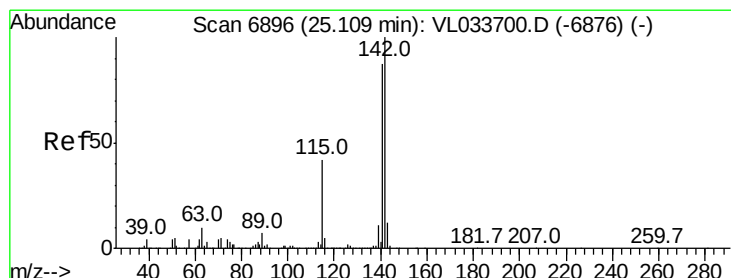
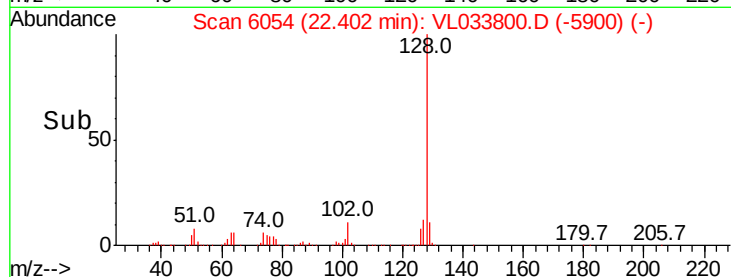
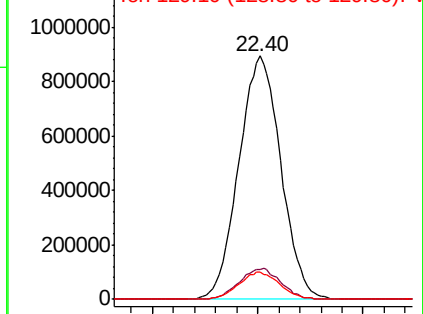
Manual Integrations
APPROVED

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5/29/2019 12:39:53 PM



Abundance Ion 128.10 (127.80 to 128.80): V
1200000
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 5.405 ppbv

RT: 25.11 min Scan# 6895

Delta R.T. -0.00 min

Lab File: VL033800.D

Acq: 28 May 2019 11:08

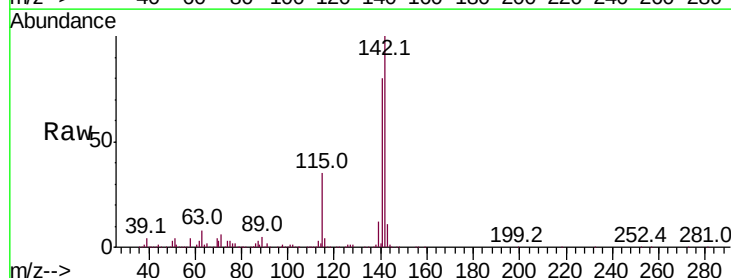
Tgt Ion:142 Resp: 647705

Ion Ratio Lower Upper

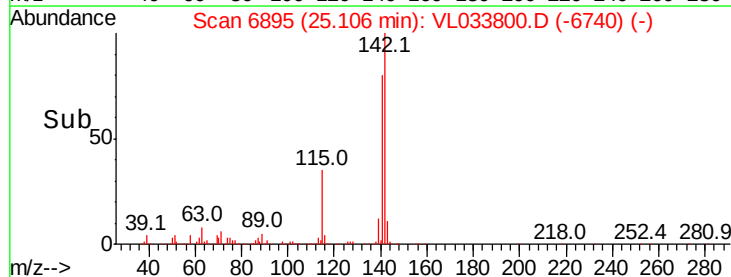
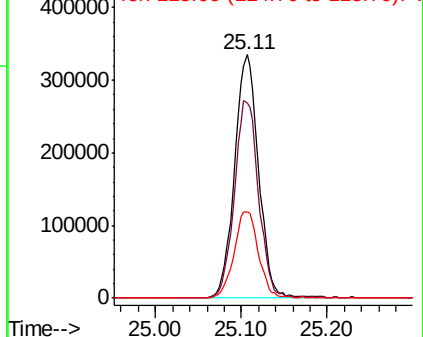
142 100

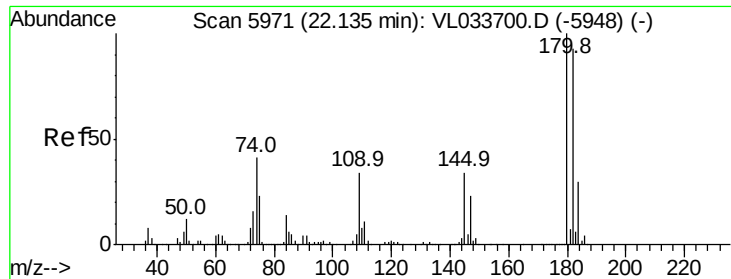
141 81.4 67.2 100.8

115 36.7 34.1 51.1



Abundance Ion 142.00 (141.70 to 142.70): V
400000
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 7.851 ppbv
 RT: 22.13 min Scan# 5969
 Delta R.T. -0.01 min
 Lab File: VL033800.D
 Acq: 28 May 2019 11:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0528ABS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.4	76.1	114.1
184	30.5	24.6	37.0

Manual Integrations
 APPROVED

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 5/29/2019 12:39:53 PM

