

Data File : VL033842.D
Acq On : 29 May 2019 18:50
Operator : SY/AP
Sample : VL0529ABS01
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0529ABS01

Quant Time: May 30 02:11:00 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL051719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 17 08:15:41 2019
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	713094	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1853817	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2277067	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1498883	8.12	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	81.20%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.07	85	1191683	7.930	ppbv	100
3) Chlorodifluoromethane	3.01	51	880258	10.777	ppbv	98
4) Chloromethane	3.17	50	497473	10.648	ppbv	99
5) Vinyl Chloride	3.29	62	506720	10.647	ppbv	95
6) Bromomethane	3.51	94	316664	10.905	ppbv	99
7) Chloroethane	3.60	64	181856	10.752	ppbv	96
8) Dichlorotetrafluoroethane	3.22	85	1322375	10.915	ppbv	98
9) Propene	3.03	41	369350	10.631	ppbv	99
10) Heptane	8.24	43	1075397	10.931	ppbv	100
11) Trichlorofluoromethane	4.00	101	1584652	11.048	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1060660	10.590	ppbv	99
13) Ethanol	3.65	45	85037	7.573	ppbv	99
14) Bromoethene	3.78	108	420491	11.420	ppbv	98
15) Acetone	3.89	43	967159	9.775	ppbv	99
16) 1,3-Butadiene	3.36	39	451089	11.449	ppbv	100
17) tert-Butyl alcohol	4.35	59	915793	11.447	ppbv	100
18) 1,1-Dichloroethene	4.35	96	463952	10.975	ppbv	97
19) Isopropyl Alcohol	4.02	45	684122	10.724	ppbv #	98
20) Methylene Chloride	4.40	84	395364	10.379	ppbv	100
21) Allyl Chloride	4.47	41	669004	10.841	ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	480171	11.081	ppbv	91
23) Vinyl Acetate	5.15	43	1414009	10.839	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1023526	10.321	ppbv	99
25) Ethyl Acetate	5.76	43	1744351	10.036	ppbv	100
26) Hexane	5.77	57	758844	10.156	ppbv	97
27) Carbon Disulfide	4.62	76	1156452	11.282	ppbv	100
28) Methyl tert-Butyl Ether	5.11	73	1315163	10.797	ppbv	100
29) Chloroform	5.85	83	1504962	10.935	ppbv	99
30) Cyclohexane	7.24	84	705896	11.238	ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	785445	10.602	ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	1396904	10.165	ppbv	99
34) 2-Butanone	5.33	43	1128670	9.822	ppbv	99
35) Carbon Tetrachloride	7.13	117	1613054	10.862	ppbv	99
36) Benzene	7.00	78	1707972	10.128	ppbv	100
37) 1,2-Dichloroethane	6.41	62	1104854	10.157	ppbv	98
38) Trichloroethene	7.96	130	738272	11.798	ppbv	98
39) 1,2-Dichloropropane	7.73	63	658309	10.471	ppbv	98
40) 1,4-Dioxane	7.95	88	265950	10.112	ppbv #	99
41) Tetrahydrofuran	6.14	42	707478	10.989	ppbv	99
42) Bromodichloromethane	7.91	83	1632588	10.963	ppbv	98
43) Methyl Methacrylate	8.13	69	690234	11.122	ppbv	99

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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.98	57	2997175	10.516	ppbv	99
45) t-1,3-Dichloropropene	9.41	75	883048	11.224	ppbv	99
46) cis-1,3-Dichloropropene	8.83	75	1039979	11.289	ppbv	99
47) 1,1,2-Trichloroethane	9.61	97	675051	9.451	ppbv	98
48) Dibromochloromethane	10.44	129	1305443	10.549	ppbv	99
49) Bromoform	13.20	173	1244014	11.947	ppbv	100
50) 4-Methyl-2-Pentanone	8.86	43	1856396	10.503	ppbv	100
51) 2-Hexanone	10.26	43	1484343	10.761	ppbv #	98
52) Tetrachloroethene	11.37	164	628945	10.610	ppbv	96
53) Toluene	9.94	91	1937184	10.651	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1101054	10.102	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.27	131	892420	8.470	ppbv	96
57) Chlorobenzene	12.29	112	1536590	8.198	ppbv	98
58) Ethyl Benzene	12.86	91	2839483	9.417	ppbv	99
59) m/p-Xylene	13.14	91	2100156	7.967	ppbv #	9
60) o-Xylene	13.84	91	2371706	8.926	ppbv	100
61) Styrene	13.68	104	1736807	9.708	ppbv	99
62) Isopropylbenzene	14.82	105	3159037	8.828	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	1664796	8.615	ppbv	100
64) n-propylbenzene	15.72	120	823940	8.901	ppbv	96
65) tert-Butylbenzene	16.90	119	3002544	9.190	ppbv	99
66) Benzyl Chloride	17.15	91	1508507	9.694	ppbv	99
67) sec-Butylbenzene	17.45	105	4203409	9.192	ppbv	99
69) p-Isopropyltoluene	17.81	119	3532399	9.346	ppbv	99
70) n-Butylbenzene	18.71	91	3670150	9.055	ppbv	99
71) 2-Chlorotoluene	15.61	91	2421837	9.122	ppbv	100
72) 4-Ethyltoluene	16.00	105	2893925	9.525	ppbv	100
73) 1,3,5-Trimethylbenzene	16.15	105	2761532	9.316	ppbv	99
74) 1,2,4-Trimethylbenzene	16.92	105	2880633	8.929	ppbv	98
75) 1,3-Dichlorobenzene	17.16	146	1665967	8.427	ppbv	100
76) 1,4-Dichlorobenzene	17.30	146	1639511	8.726	ppbv	99
77) 1,2-Dichlorobenzene	17.98	146	1616818	8.704	ppbv	100
78) Hexachloro-1,3-Butadiene	23.54	225	929650	6.619	ppbv	99
79) Naphthalene	22.40	128	2126975	7.098	ppbv	98
80) Naphthalene,2-methyl-	25.11	142	562396	4.940	ppbv	97
81) 1,2,4-Trichlorobenzene	22.13	180	1254188	7.148	ppbv	100

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

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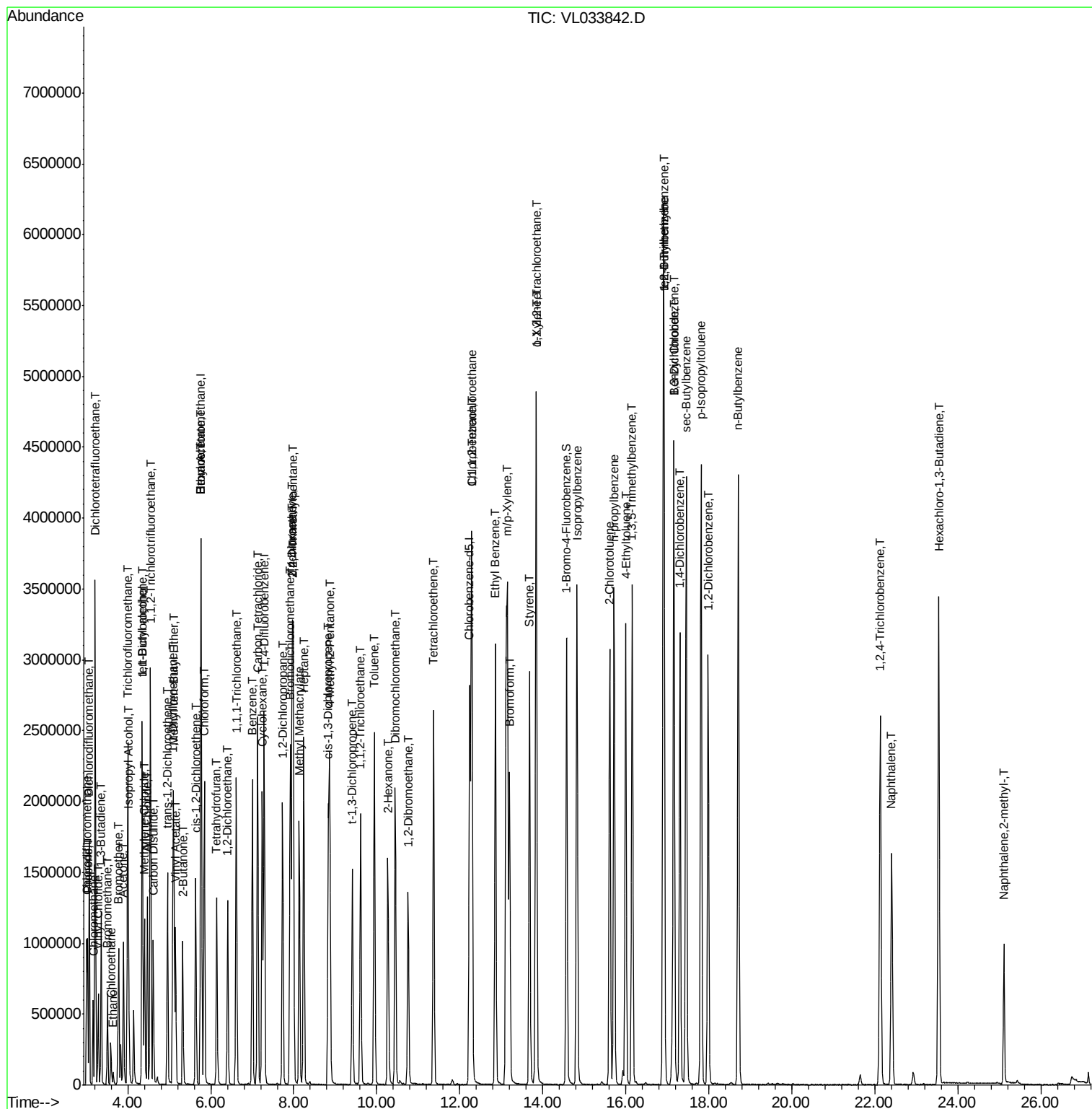
Quant Time: May 30 02:11:00 2019

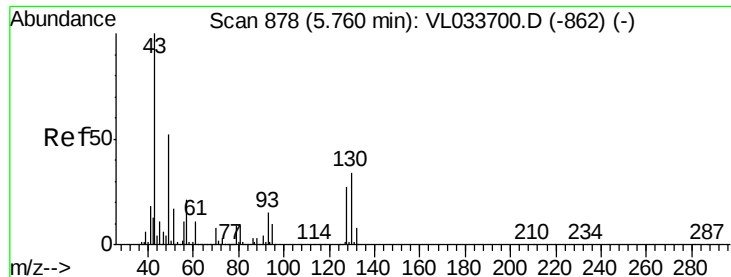
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_L\METHODS\VL051719AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri May 17 08:15:41 2019

QLast Update : Fri May 17 08:15:41 2019

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.00 min

Lab File: VL033842.D

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Instrument :

MSVOA_L

ClientSampleId :

VL0529ABS01

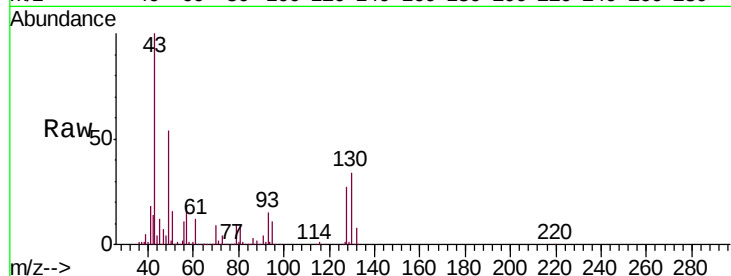
Tgt Ion: 49 Resp: 713094

Ion Ratio Lower Upper

49 100

128 50.2 25.2 75.6

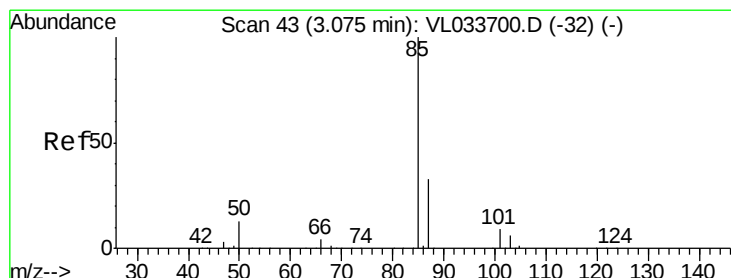
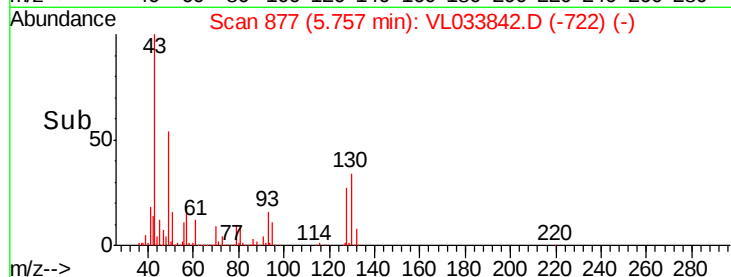
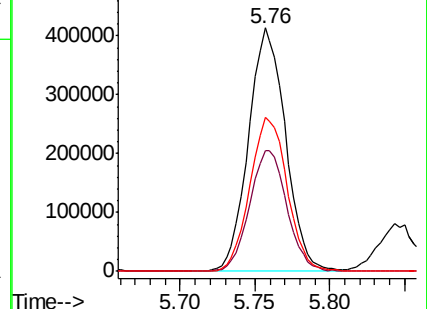
130 64.1 32.5 97.5



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 7.930 ppbv

RT: 3.07 min Scan# 42

Delta R.T. -0.00 min

Lab File: VL033842.D

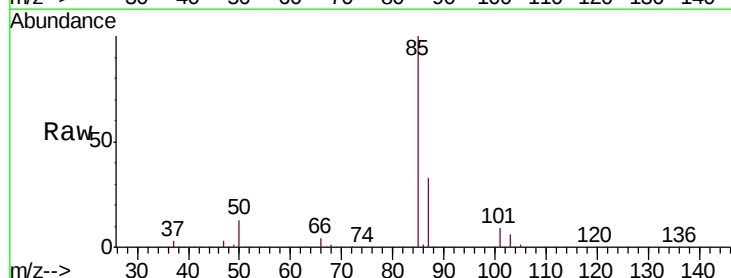
Acq: 29 May 2019 18:50

Tgt Ion: 85 Resp: 1191683

Ion Ratio Lower Upper

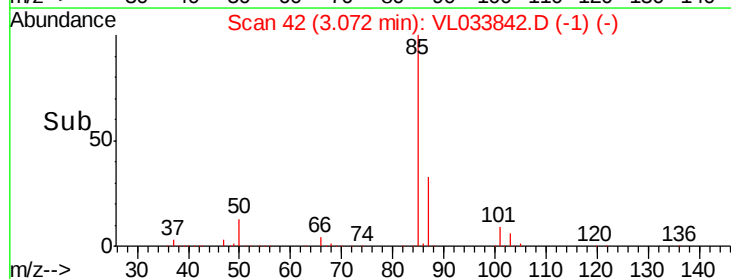
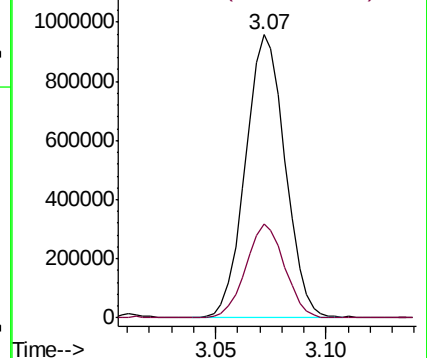
85 100

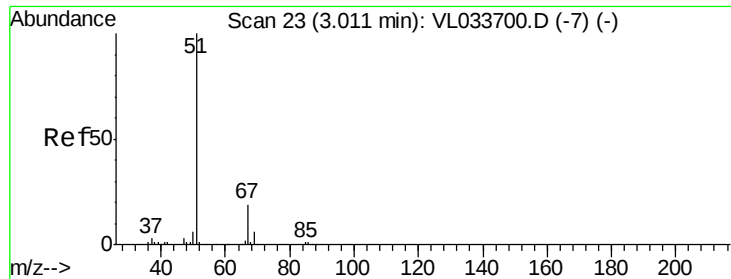
87 33.0 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

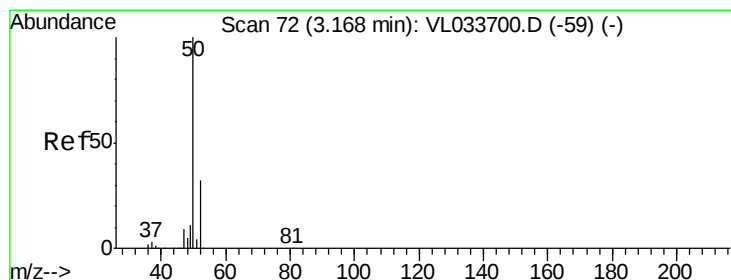
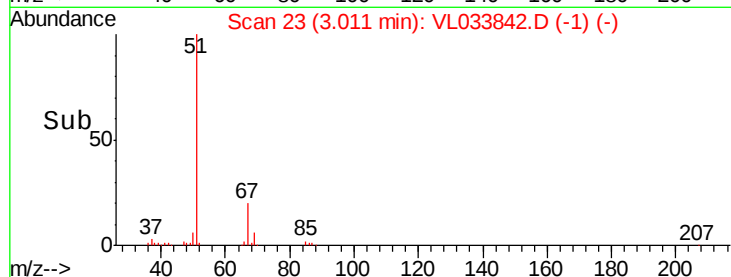
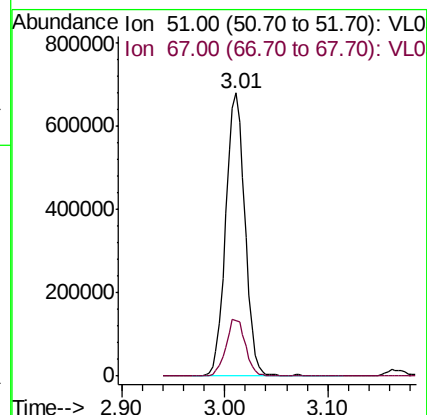
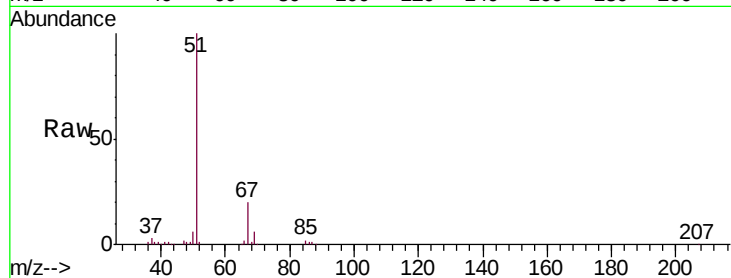




#3
 Chlorodifluoromethane
 Concen: 10.777 ppbv
 RT: 3.01 min Scan# 23
 Delta R.T. 0.00 min
 Lab File: VL033842.D
 Acq: 29 May 2019 18:50

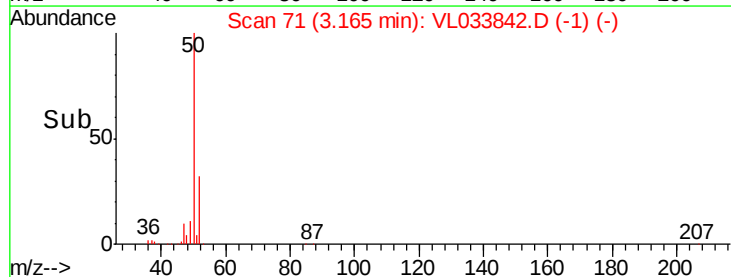
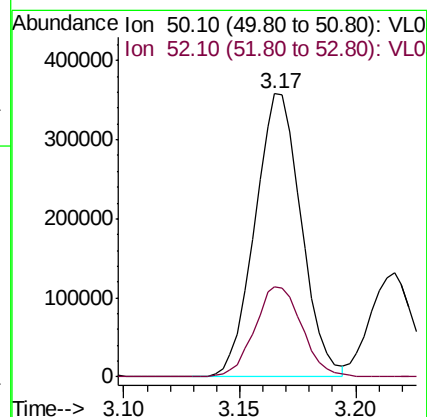
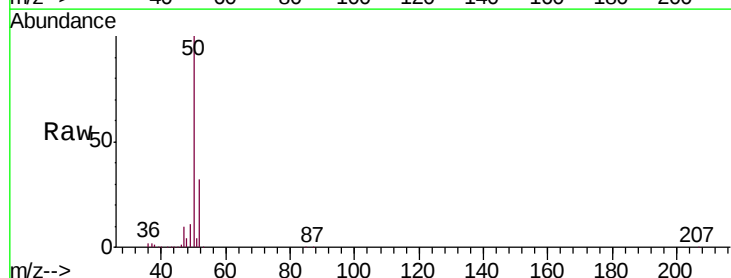
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0529ABS01

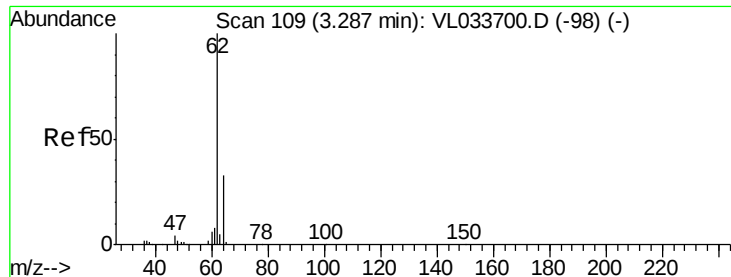
Tgt Ion: 51 Resp: 880258
 Ion Ratio Lower Upper
 51 100
 67 20.3 15.6 23.4



#4
 Chloromethane
 Concen: 10.648 ppbv
 RT: 3.17 min Scan# 71
 Delta R.T. -0.00 min
 Lab File: VL033842.D
 Acq: 29 May 2019 18:50

Tgt Ion: 50 Resp: 497473
 Ion Ratio Lower Upper
 50 100
 52 31.7 25.7 38.5





#5

Vinyl Chloride

Concen: 10.647 ppbv

RT: 3.29 min Scan# 109

Delta R.T. 0.00 min

Lab File: VL033842.D

Acq: 29 May 2019 18:50

Instrument :

MSVOA_L

ClientSampleId :

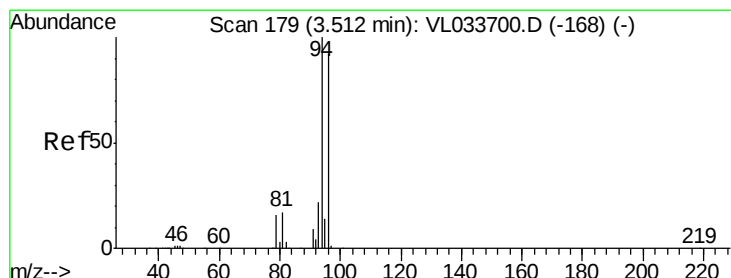
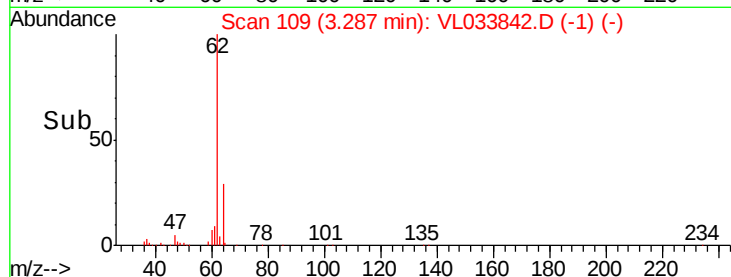
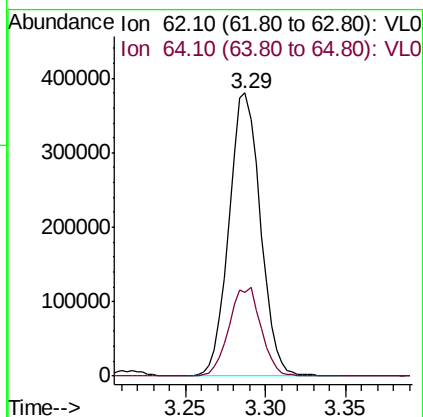
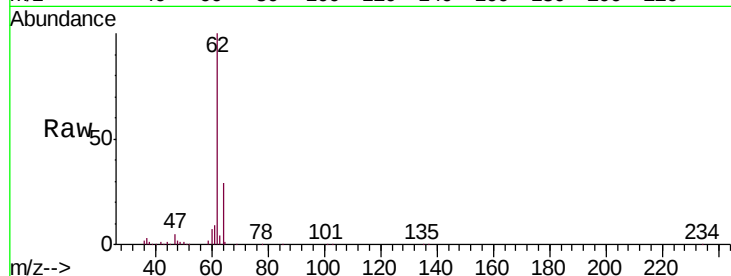
VL0529ABS01

Tgt Ion: 62 Resp: 506720

Ion Ratio Lower Upper

62 100

64 30.1 26.4 39.6



#6

Bromomethane

Concen: 10.905 ppbv

RT: 3.51 min Scan# 178

Delta R.T. -0.00 min

Lab File: VL033842.D

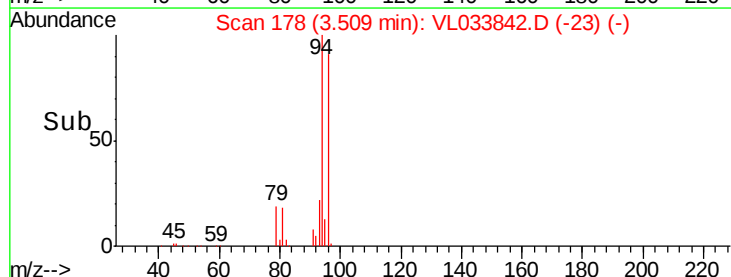
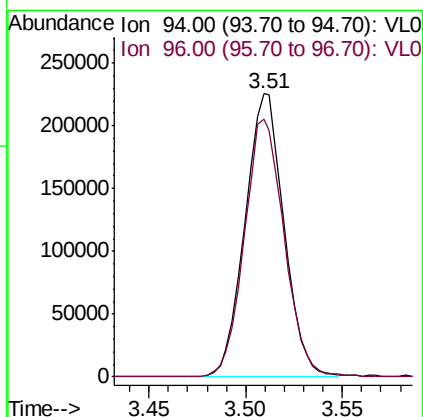
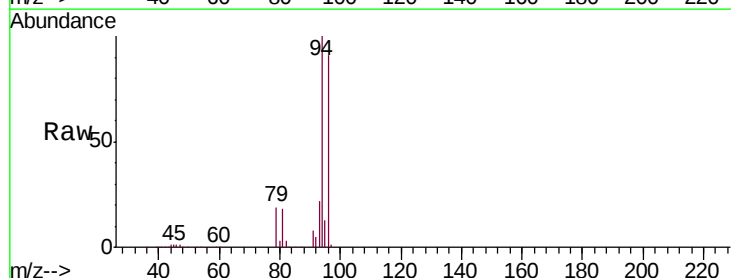
Acq: 29 May 2019 18:50

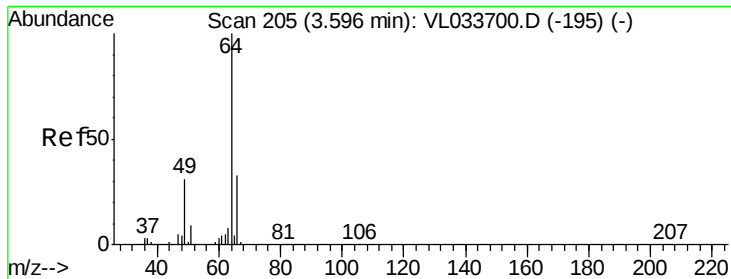
Tgt Ion: 94 Resp: 316664

Ion Ratio Lower Upper

94 100

96 91.1 73.6 110.4





#7

Chloroethane

Concen: 10.752 ppbv

RT: 3.60 min Scan# 205

Delta R.T. 0.00 min

Lab File: VL033842.D

Acq: 29 May 2019 18:50

Instrument :

MSVOA_L

ClientSampleId :

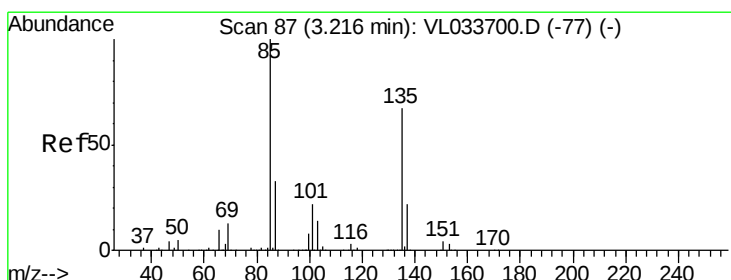
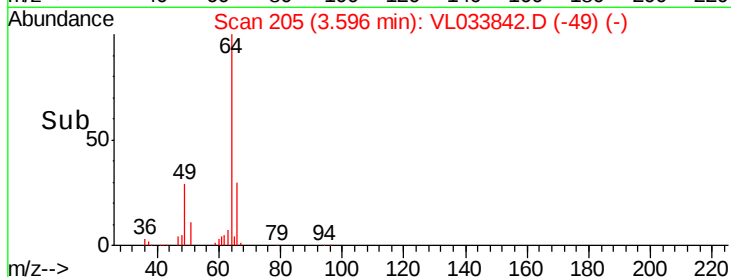
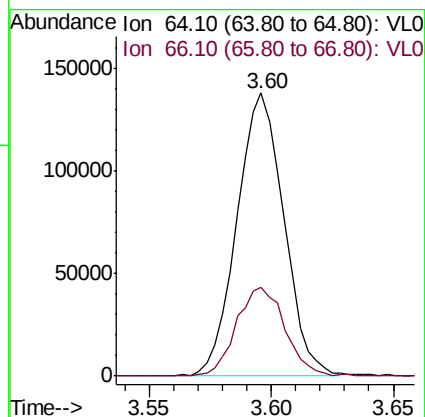
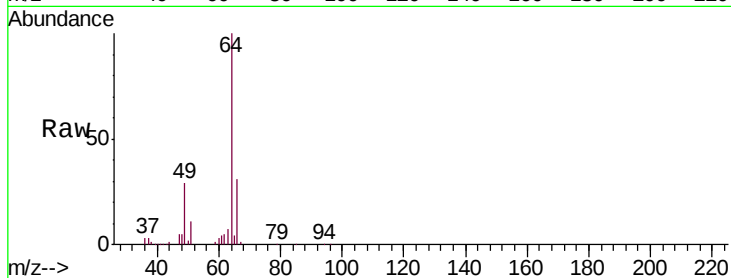
VL0529ABS01

Tgt Ion: 64 Resp: 181856

Ion Ratio Lower Upper

64 100

66 31.2 26.6 40.0



#8

Dichlorotetrafluoroethane

Concen: 10.915 ppbv

RT: 3.22 min Scan# 87

Delta R.T. 0.00 min

Lab File: VL033842.D

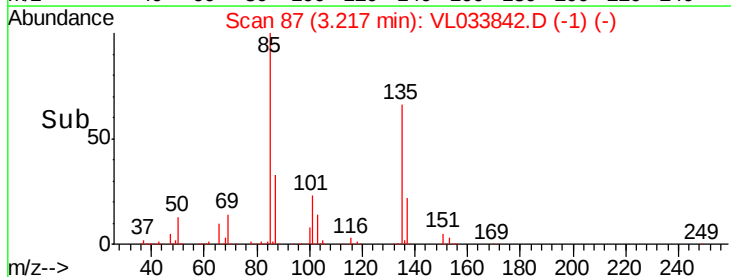
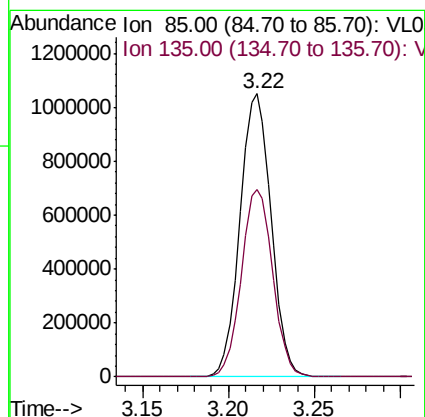
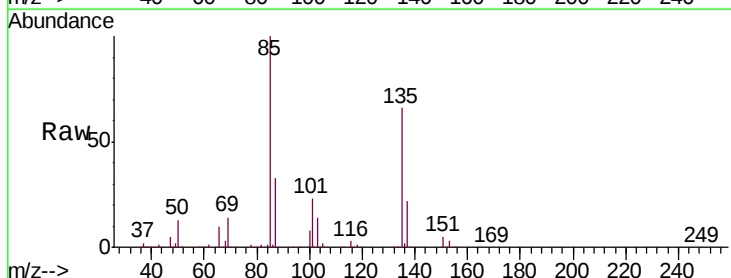
Acq: 29 May 2019 18:50

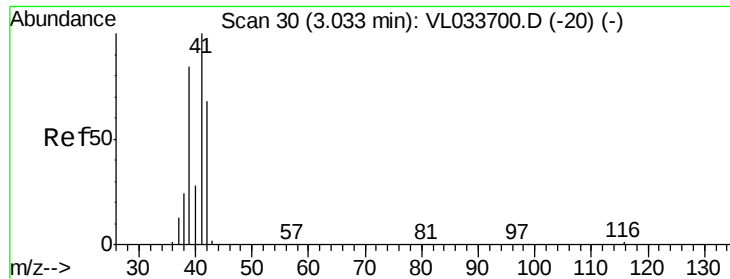
Tgt Ion: 85 Resp: 1322375

Ion Ratio Lower Upper

85 100

135 66.6 54.5 81.7





#9

Propene

Concen: 10.631 ppbv

RT: 3.03 min Scan# 30

Delta R.T. 0.00 min

Lab File: VL033842.D

Acq: 29 May 2019 18:50

Instrument :

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ClientSampleId :

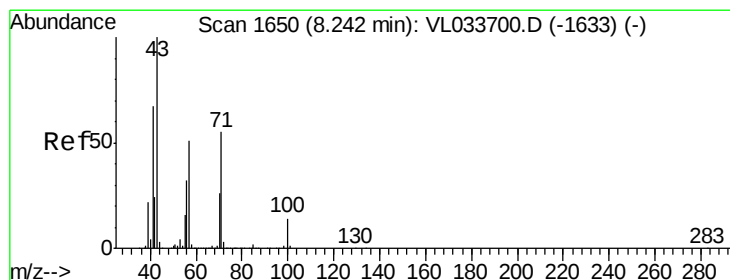
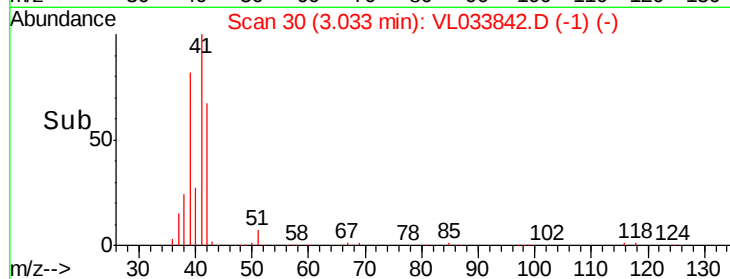
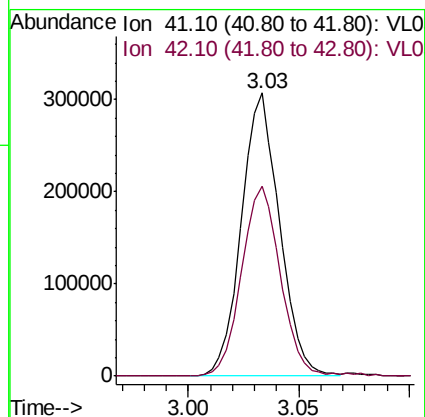
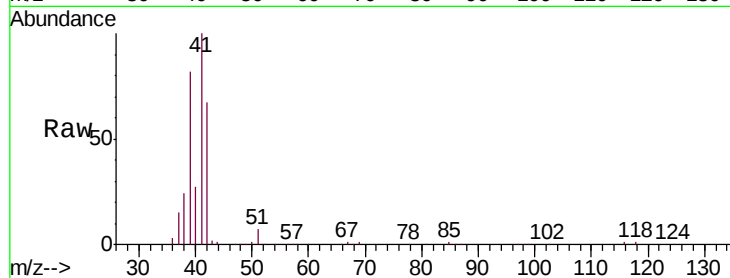
VL0529ABS01

Tgt Ion: 41 Resp: 369350

Ion Ratio Lower Upper

41 100

42 68.9 56.1 84.1



#10

Heptane

Concen: 10.931 ppbv

RT: 8.24 min Scan# 1649

Delta R.T. -0.00 min

Lab File: VL033842.D

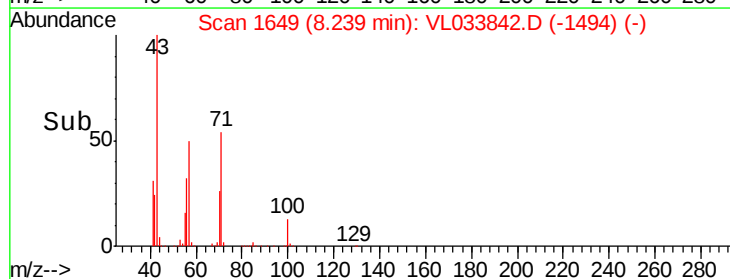
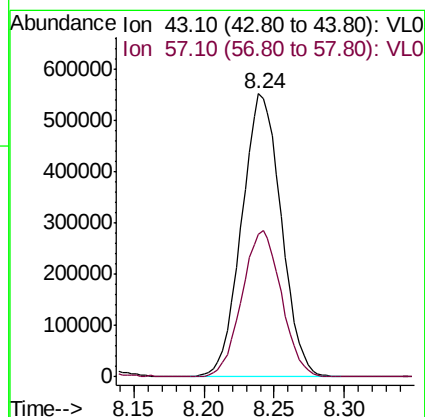
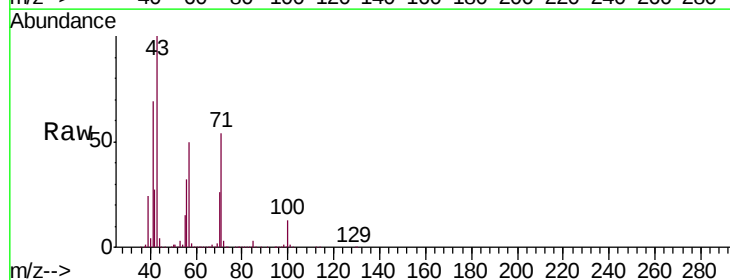
Acq: 29 May 2019 18:50

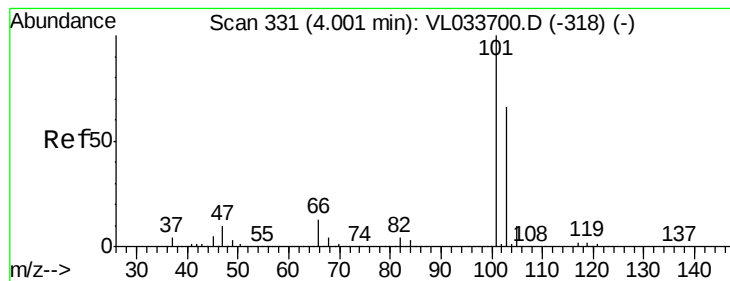
Tgt Ion: 43 Resp: 1075397

Ion Ratio Lower Upper

43 100

57 51.9 41.4 62.0





#11

Trichlorofluoromethane

Concen: 11.048 ppbv

RT: 4.00 min Scan# 330

Delta R.T. -0.00 min

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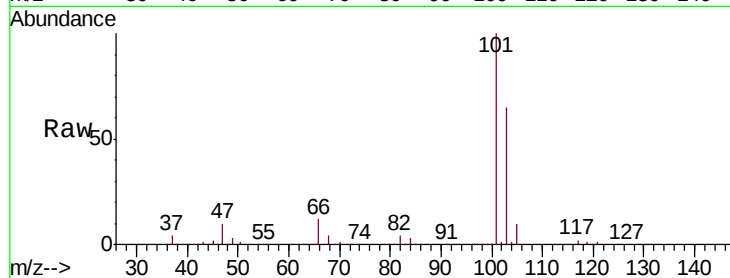
VL0529ABS01

Tgt Ion:101 Resp: 1584652

Ion Ratio Lower Upper

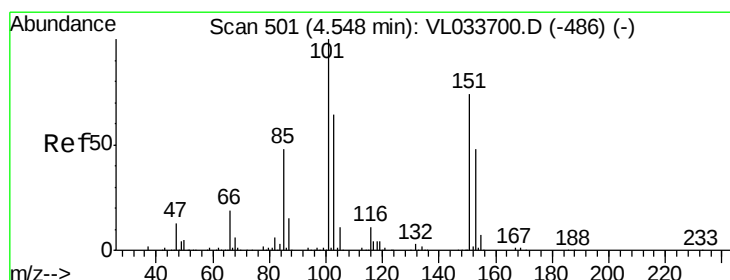
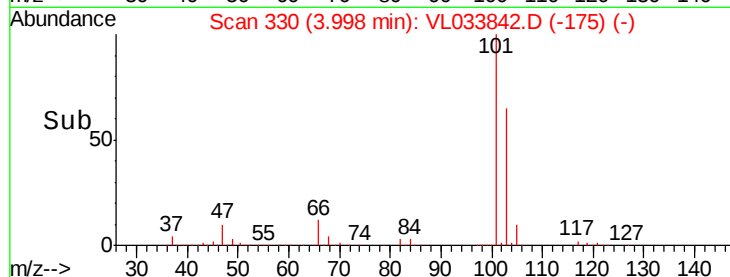
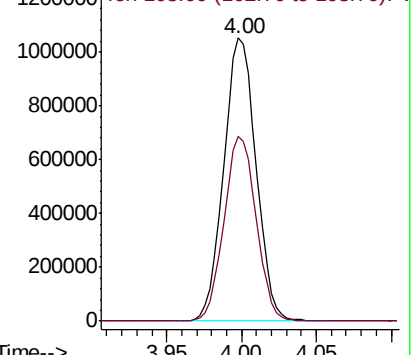
101 100

103 65.1 52.6 78.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 10.590 ppbv

RT: 4.55 min Scan# 501

Delta R.T. 0.00 min

Lab File: VL033842.D

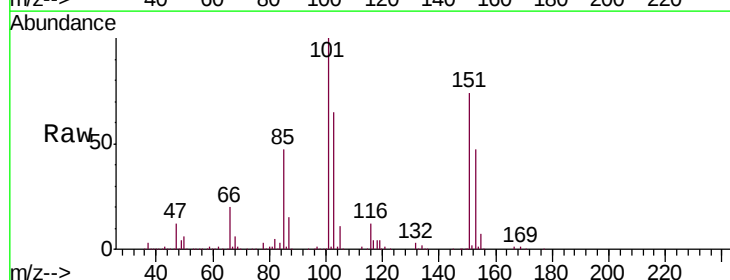
Acq: 29 May 2019 18:50

Tgt Ion:101 Resp: 1060660

Ion Ratio Lower Upper

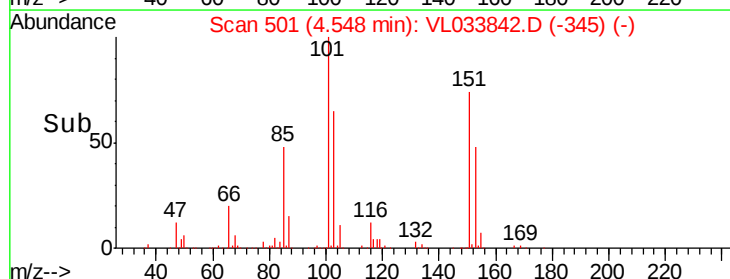
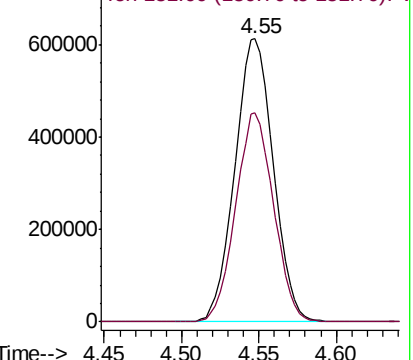
101 100

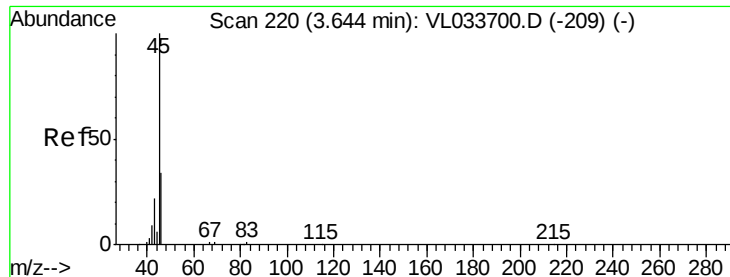
151 73.2 58.2 87.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 7.573 ppbv

RT: 3.65 min Scan# 222

Delta R.T. 0.01 min

Lab File: VL033842.D

Acq: 29 May 2019 18:50

Instrument :

MSVOA_L

ClientSampleId :

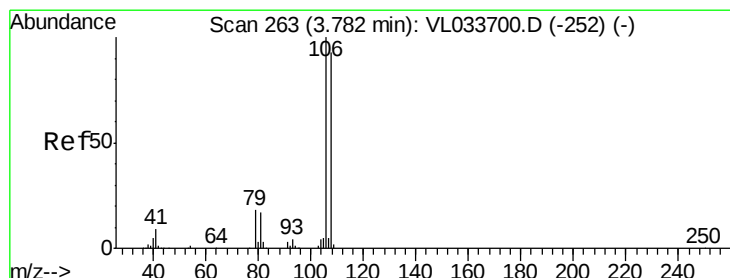
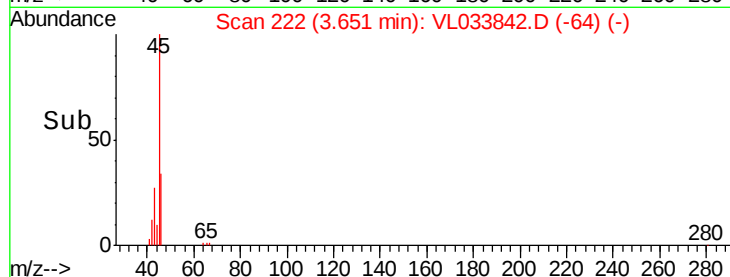
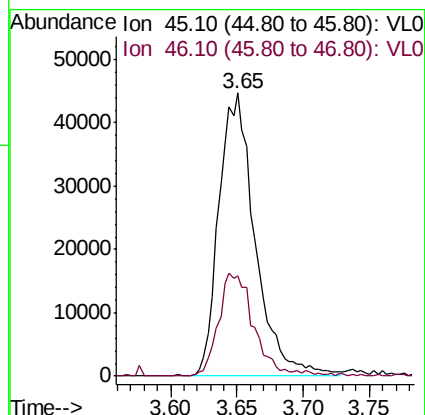
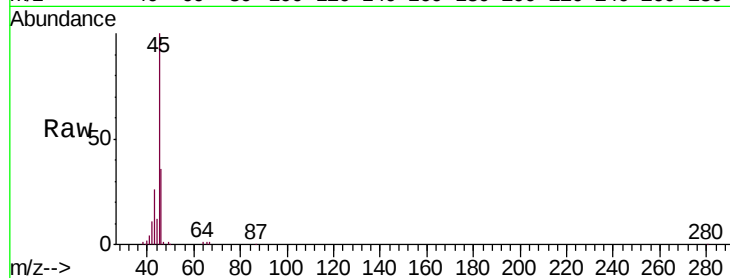
VL0529ABS01

Tgt Ion: 45 Resp: 85037

Ion Ratio Lower Upper

45 100

46 36.1 14.8 59.0



#14

Bromoethene

Concen: 11.420 ppbv

RT: 3.78 min Scan# 263

Delta R.T. 0.00 min

Lab File: VL033842.D

Acq: 29 May 2019 18:50

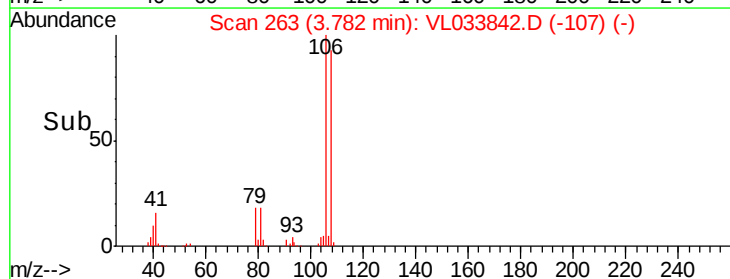
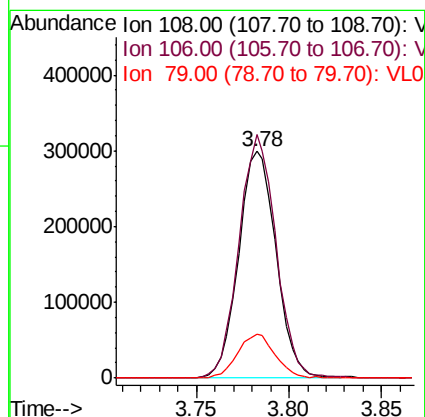
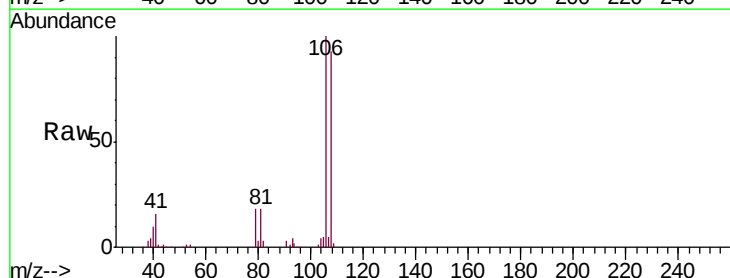
Tgt Ion: 108 Resp: 420491

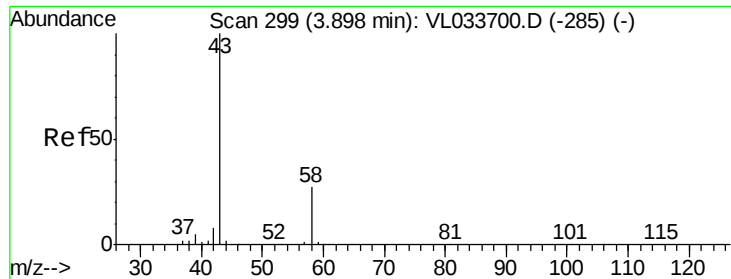
Ion Ratio Lower Upper

108 100

106 106.3 86.5 129.7

79 19.6 15.1 22.7





#15

Acetone

Concen: 9.775 ppbv

RT: 3.89 min Scan# 298

Delta R.T. -0.00 min

Lab File: VL033842.D

Acq: 29 May 2019 18:50

Instrument :

MSVOA_L

ClientSampleId :

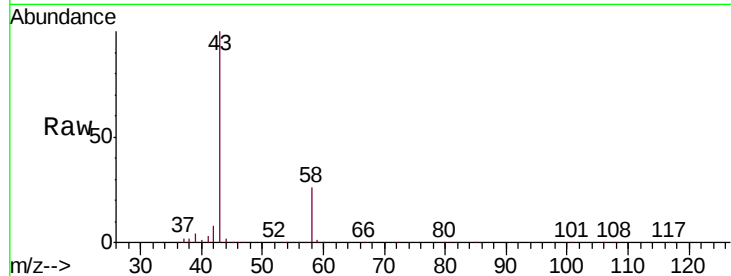
VL0529ABS01

Tgt Ion: 43 Resp: 967159

Ion Ratio Lower Upper

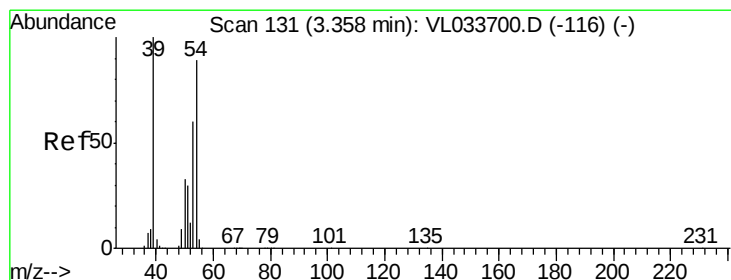
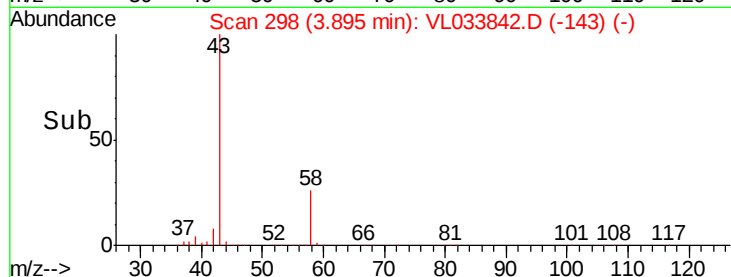
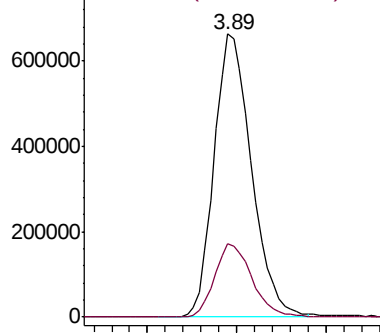
43 100

58 26.1 21.3 31.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 11.449 ppbv

RT: 3.36 min Scan# 131

Delta R.T. 0.00 min

Lab File: VL033842.D

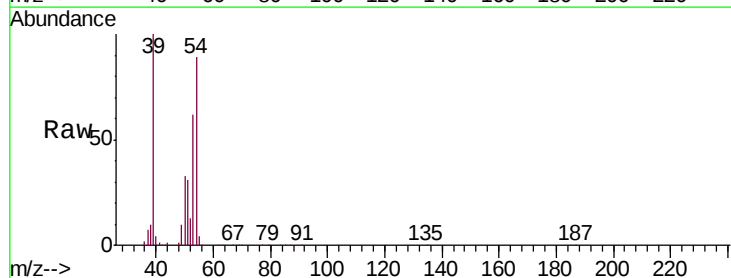
Acq: 29 May 2019 18:50

Tgt Ion: 39 Resp: 451089

Ion Ratio Lower Upper

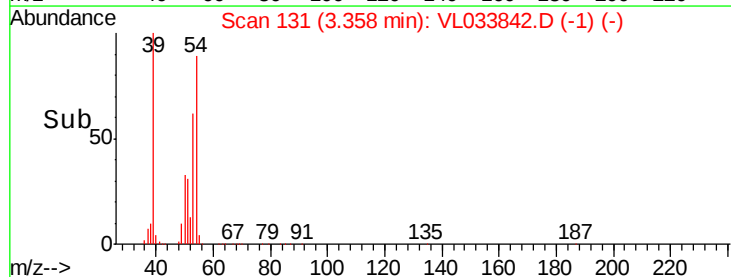
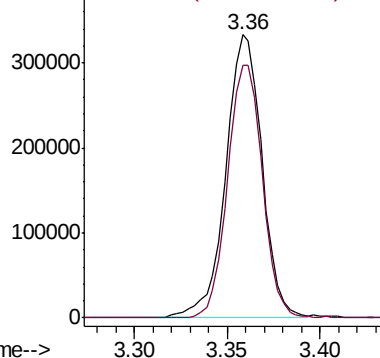
39 100

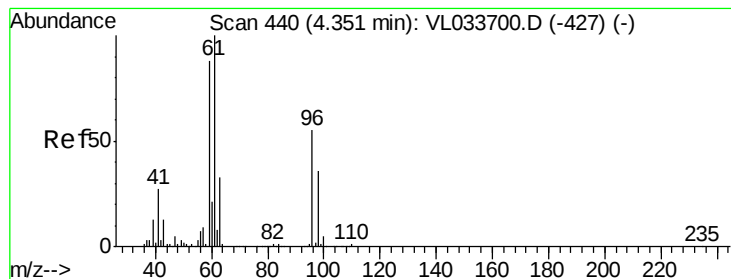
54 86.3 69.0 103.6



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 11.447 ppbv

RT: 4.35 min Scan# 440

Delta R.T. 0.00 min

Lab File: VL033842.D

Acq: 29 May 2019 18:50

Instrument :

MSVOA_L

ClientSampleId :

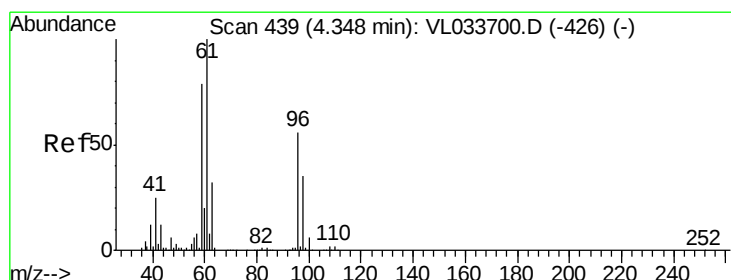
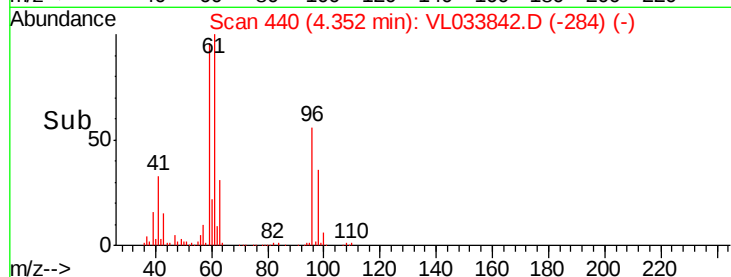
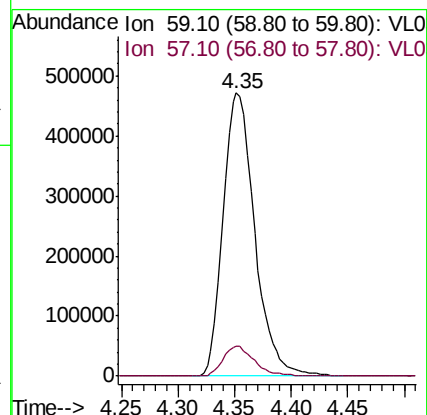
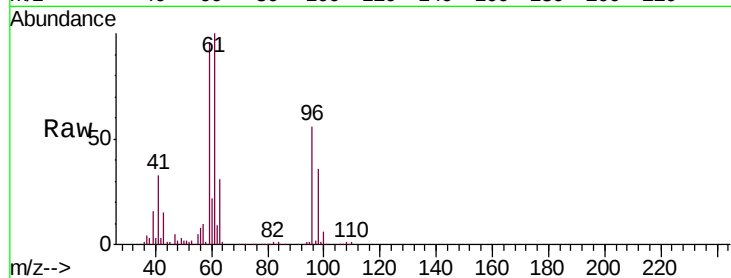
VL0529ABS01

Tgt Ion: 59 Resp: 915793

Ion Ratio Lower Upper

59 100

57 10.5 8.4 12.6



#18

1,1-Dichloroethene

Concen: 10.975 ppbv

RT: 4.35 min Scan# 438

Delta R.T. -0.00 min

Lab File: VL033842.D

Acq: 29 May 2019 18:50

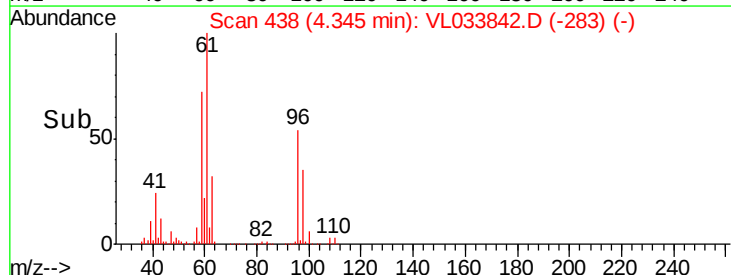
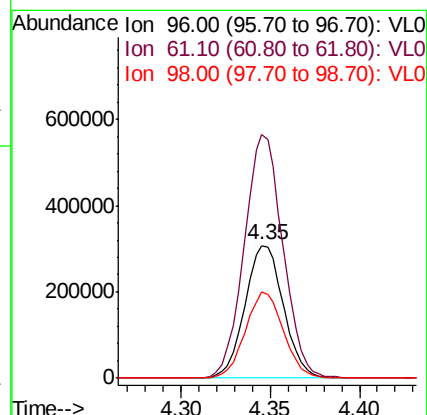
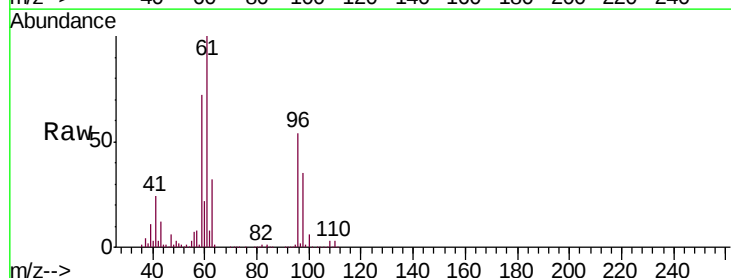
Tgt Ion: 96 Resp: 463952

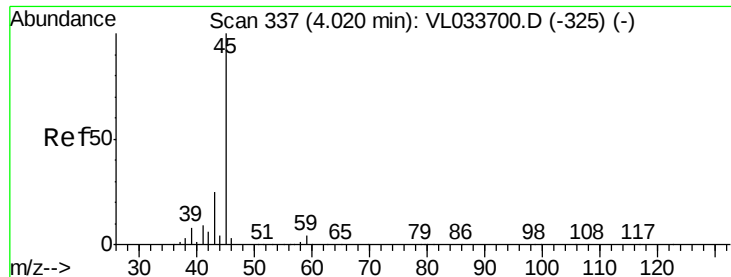
Ion Ratio Lower Upper

96 100

61 183.6 143.1 214.7

98 64.9 49.5 74.3





#19

Isopropyl Alcohol

Concen: 10.724 ppbv

RT: 4.02 min Scan# 337

Delta R.T. 0.00 min

Lab File: VL033842.D

Acq: 29 May 2019 18:50

Instrument :

MSVOA_L

ClientSampleId :

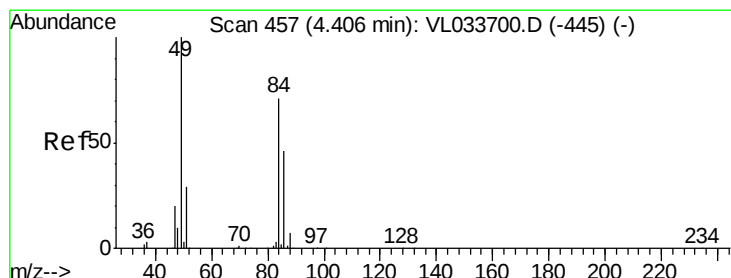
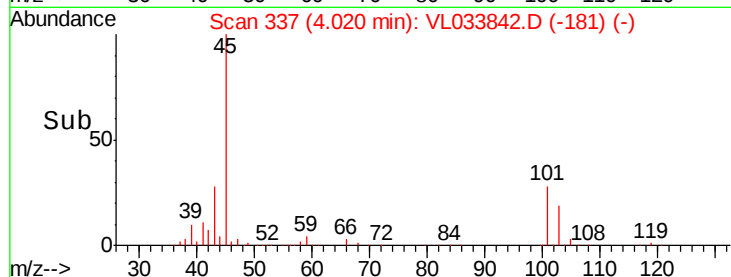
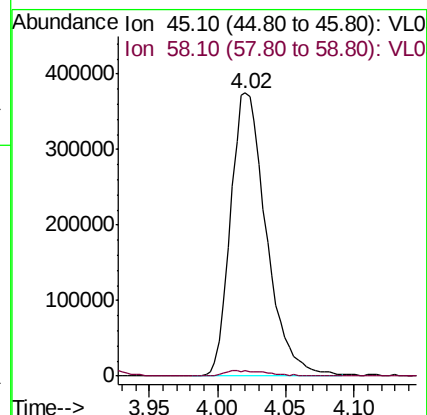
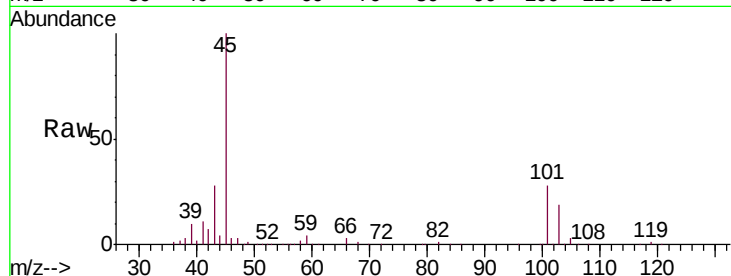
VL0529ABS01

Tgt Ion: 45 Resp: 684122

Ion Ratio Lower Upper

45 100

58 2.7 1.6 2.4#



#20

Methylene Chloride

Concen: 10.379 ppbv

RT: 4.40 min Scan# 456

Delta R.T. -0.00 min

Lab File: VL033842.D

Acq: 29 May 2019 18:50

Tgt Ion: 84 Resp: 395364

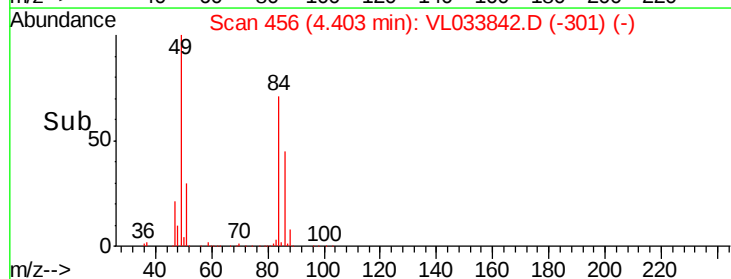
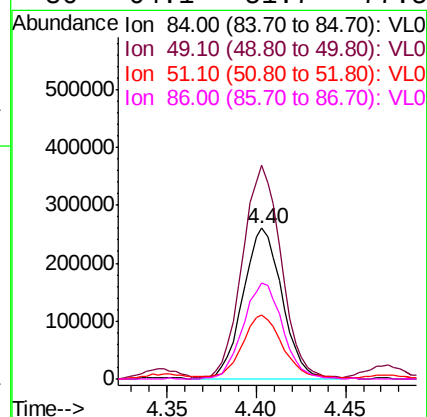
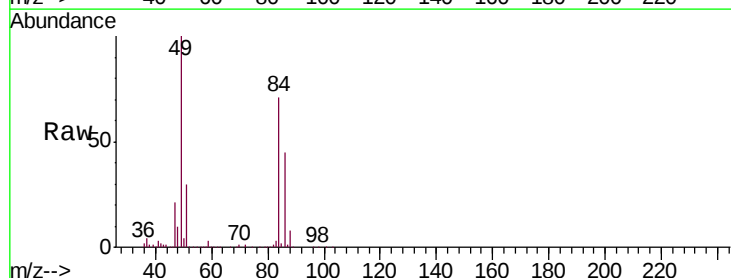
Ion Ratio Lower Upper

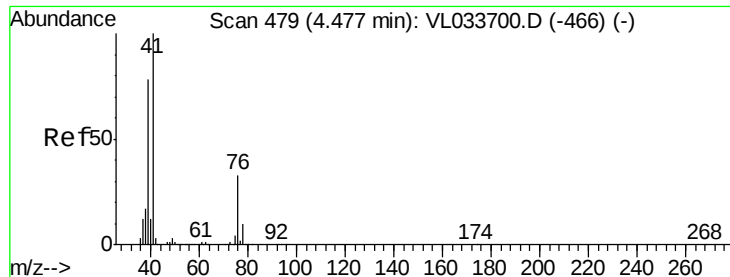
84 100

49 140.9 112.8 169.2

51 42.0 33.4 50.0

86 64.1 51.7 77.5





#21

Allyl Chloride

Concen: 10.841 ppbv

RT: 4.47 min Scan# 478

Delta R.T. -0.00 min

Lab File: VL033842.D

Acq: 29 May 2019 18:50

Instrument :

MSVOA_L

ClientSampleId :

VL0529ABS01

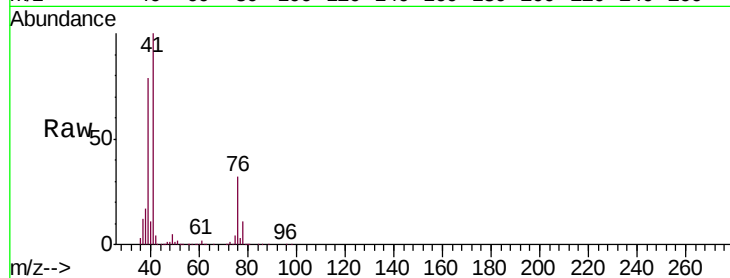
Tgt Ion: 41 Resp: 669004

Ion Ratio Lower Upper

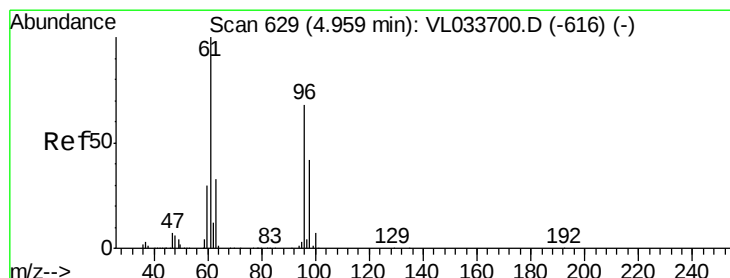
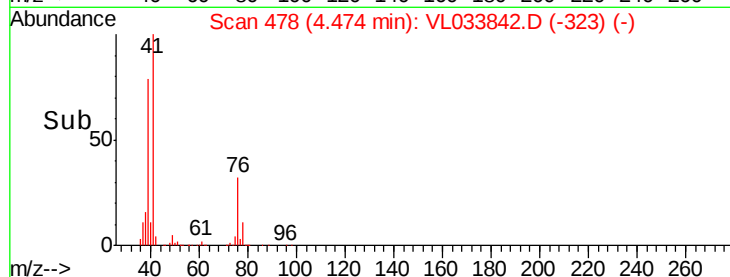
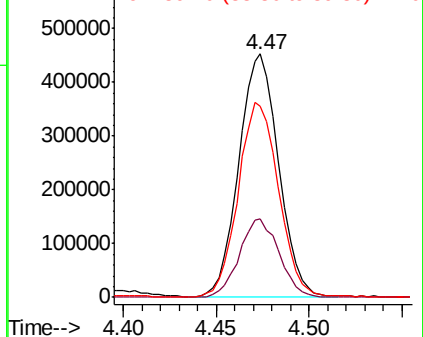
41 100

76 32.4 25.9 38.9

39 82.2 64.6 97.0



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 11.081 ppbv

RT: 4.96 min Scan# 628

Delta R.T. -0.00 min

Lab File: VL033842.D

Acq: 29 May 2019 18:50

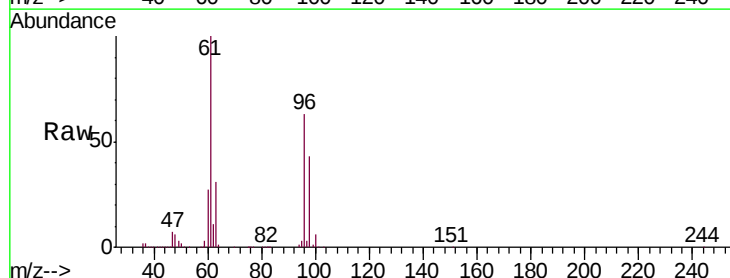
Tgt Ion: 96 Resp: 480171

Ion Ratio Lower Upper

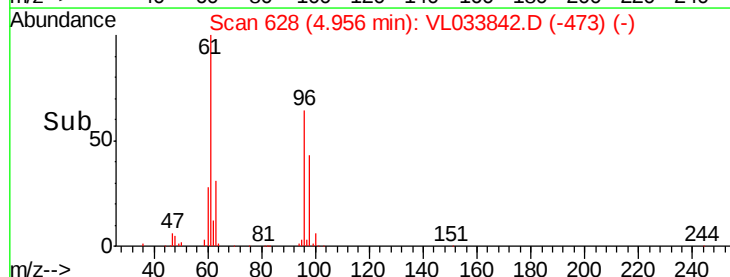
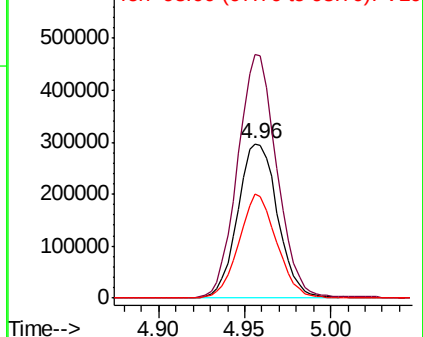
96 100

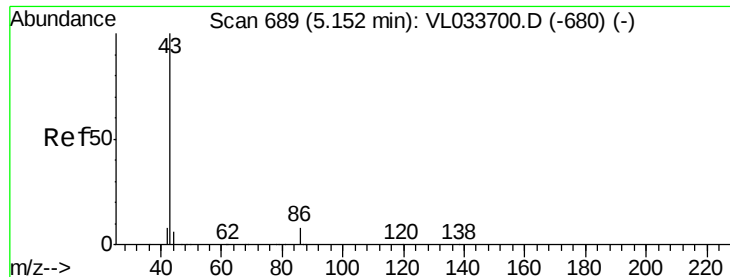
61 158.0 116.8 175.2

98 67.5 49.4 74.0



Abundance Ion 96.00 (95.70 to 96.70): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 10.839 ppbv

RT: 5.15 min Scan# 688

Delta R.T. -0.00 min

Lab File: VL033842.D

Acq: 29 May 2019 18:50

Instrument :

MSVOA_L

ClientSampleId :

VL0529ABS01

Tgt Ion: 43 Resp: 1414009

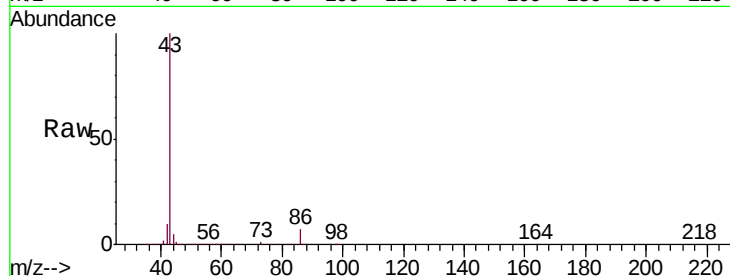
Ion Ratio Lower Upper

43 100

86 7.3 6.0 9.0

42 10.2 7.5 11.3

44 5.1 4.4 6.6

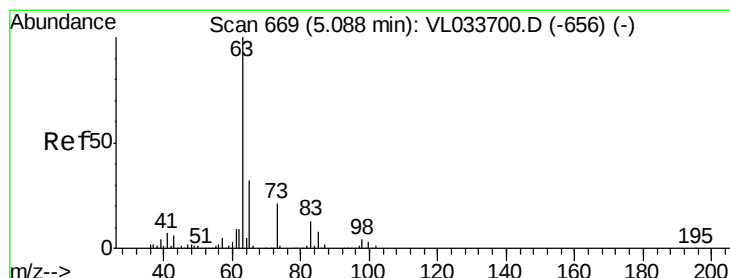
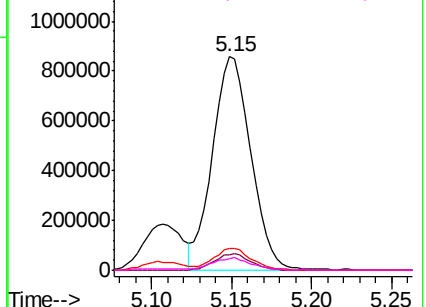
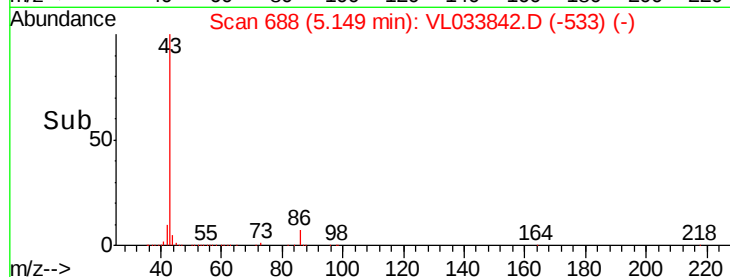


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 10.321 ppbv

RT: 5.09 min Scan# 669

Delta R.T. 0.00 min

Lab File: VL033842.D

Acq: 29 May 2019 18:50

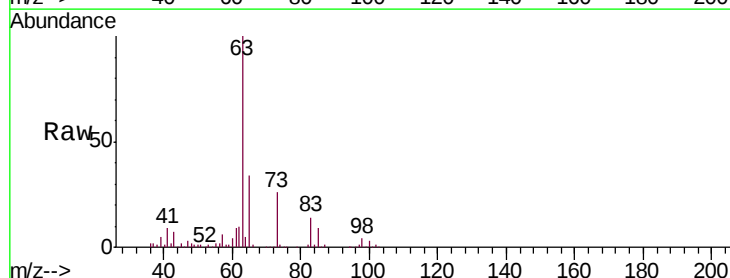
Tgt Ion: 63 Resp: 1023526

Ion Ratio Lower Upper

63 100

98 4.2 1.8 5.5

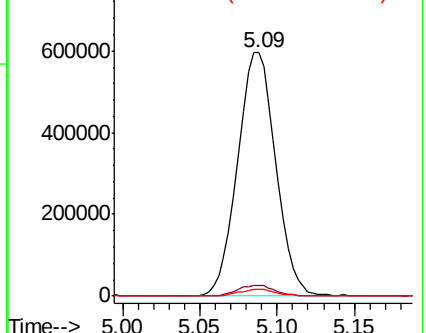
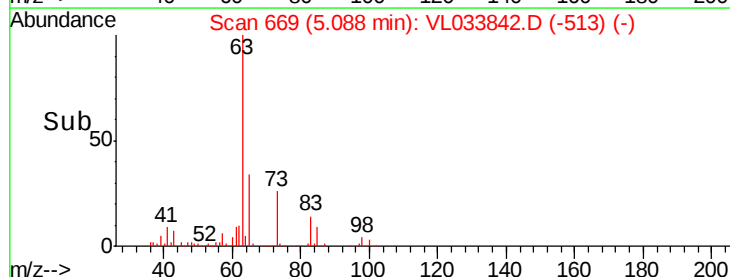
100 2.6 1.4 4.2

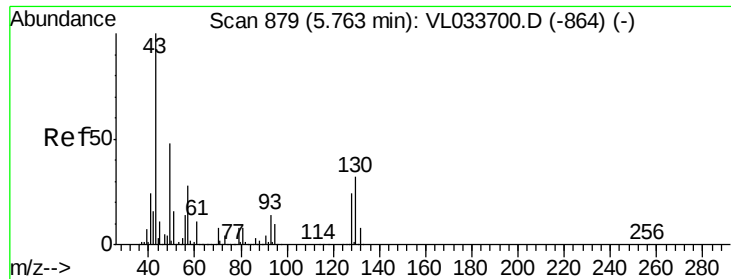


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



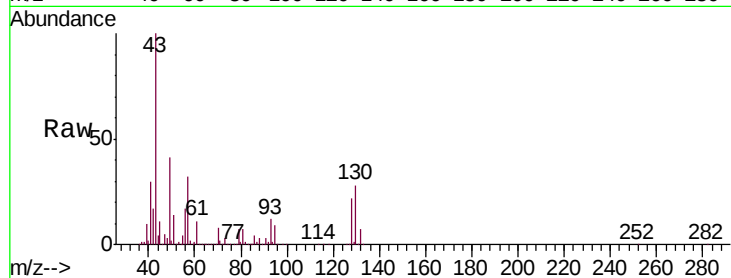


#25
Ethyl Acetate
Concen: 10.036 ppbv
RT: 5.76 min Scan# 879
Delta R.T. 0.00 min
Lab File: VL033842.D
Acq: 29 May 2019 18:50

Instrument :
MSVOA_L
ClientSampleId :
VL0529ABS01

Tgt Ion: 43 Resp: 1744351

Ion	Ratio	Lower	Upper
43	100		
45	9.8	7.9	11.9
61	9.8	7.7	11.5
70	7.2	5.8	8.6



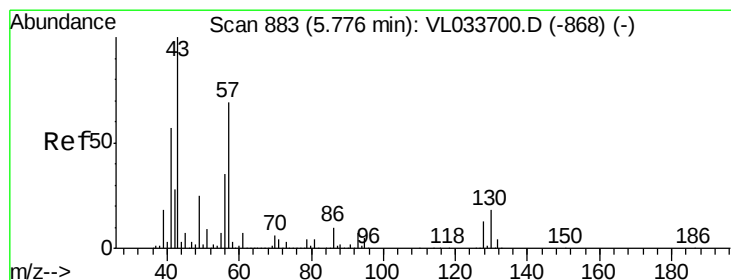
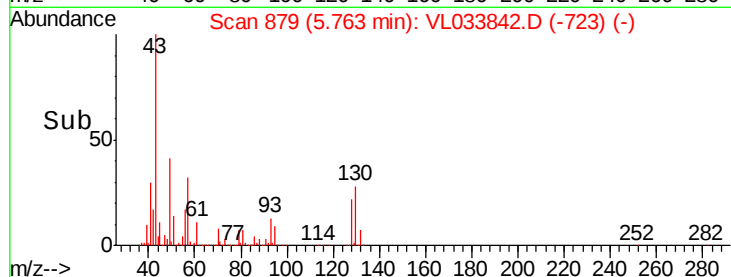
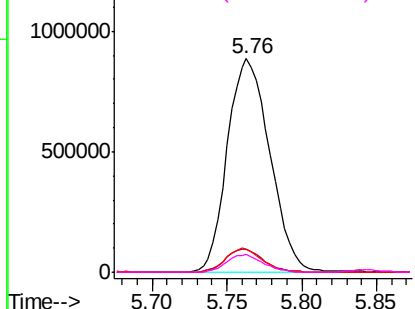
Abundance

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

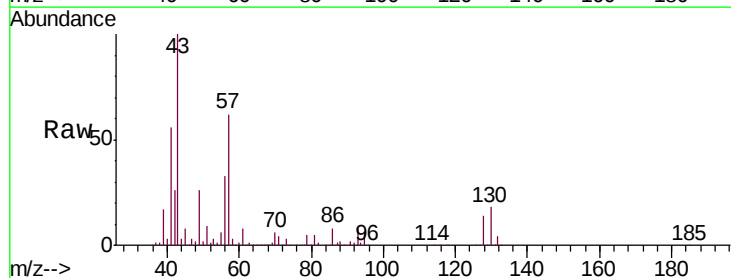
Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 10.156 ppbv
RT: 5.77 min Scan# 882
Delta R.T. -0.00 min
Lab File: VL033842.D
Acq: 29 May 2019 18:50

Tgt Ion: 57 Resp: 758844

Ion	Ratio	Lower	Upper
57	100		
41	91.7	69.8	104.6
43	231.2	181.8	272.6
56	53.6	42.1	63.1



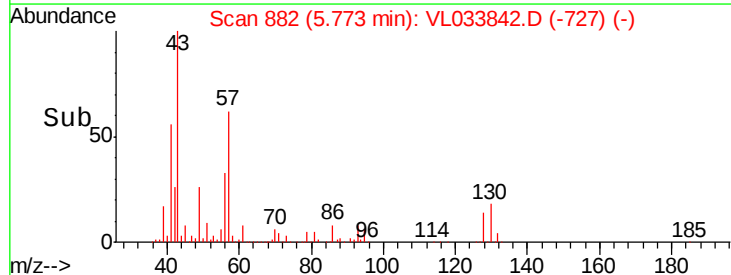
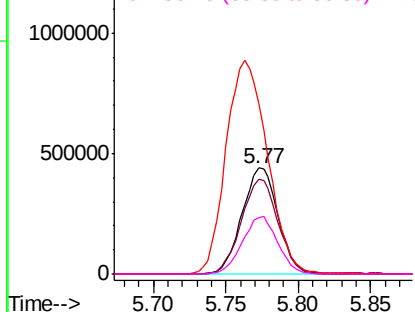
Abundance

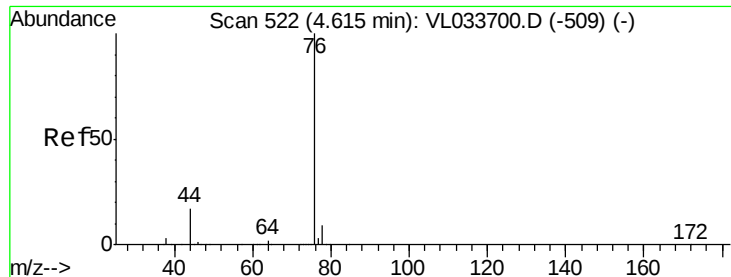
Ion 57.10 (56.80 to 57.80): VL0

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



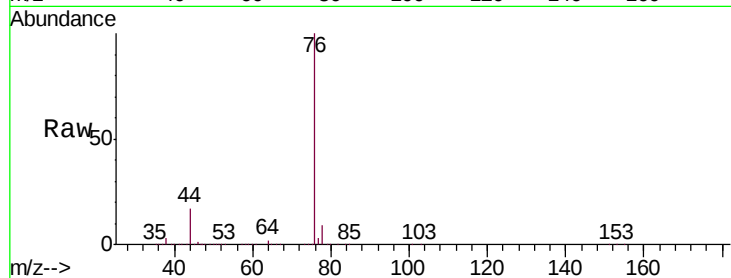


#27
Carbon Disulfide
Concen: 11.282 ppbv
RT: 4.62 min Scan# 522
Delta R.T. 0.00 min
Lab File: VL033842.D
Acq: 29 May 2019 18:50

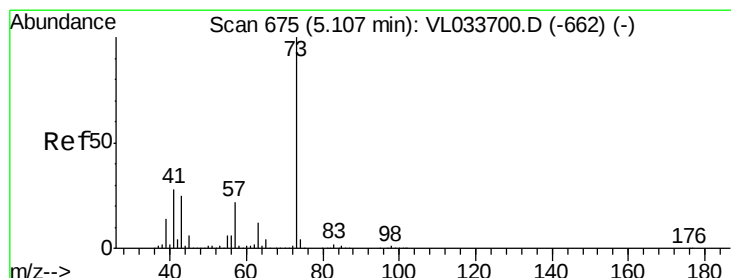
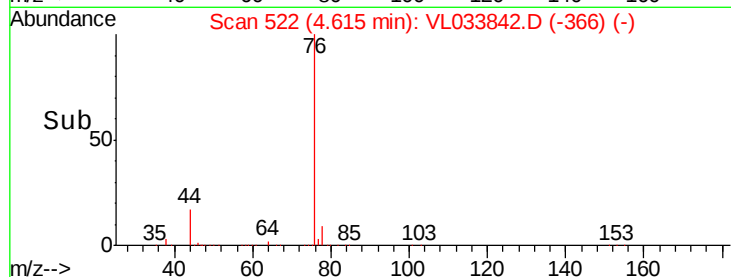
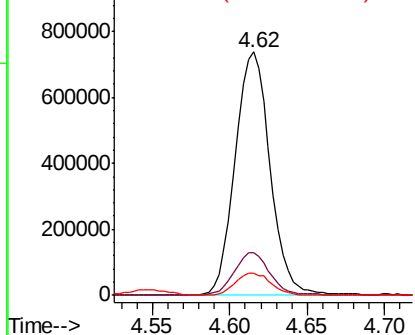
Instrument :
MSVOA_L
ClientSampleId :
VL0529ABS01

Tgt Ion: 76 Resp: 1156452

Ion	Ratio	Lower	Upper
76	100		
44	17.4	13.8	20.8
78	9.3	7.4	11.0



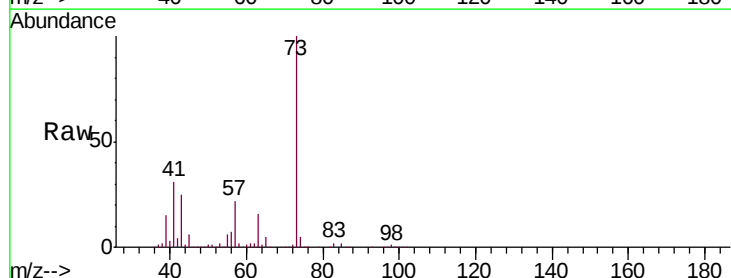
Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



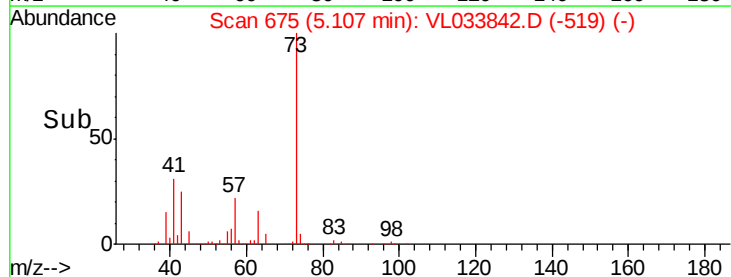
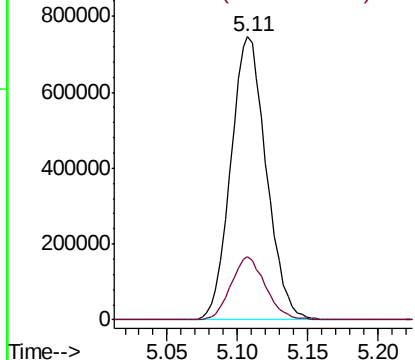
#28
Methyl tert-Butyl Ether
Concen: 10.797 ppbv
RT: 5.11 min Scan# 675
Delta R.T. 0.00 min
Lab File: VL033842.D
Acq: 29 May 2019 18:50

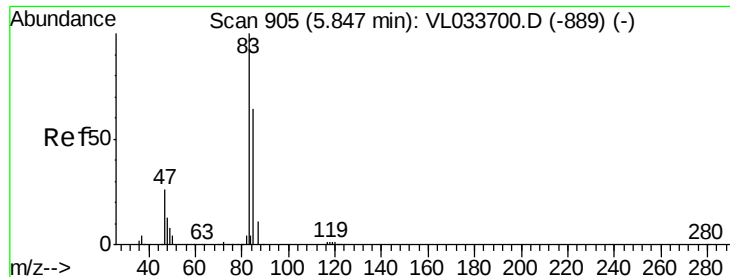
Tgt Ion: 73 Resp: 1315163

Ion	Ratio	Lower	Upper
73	100		
57	21.8	17.4	26.2



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

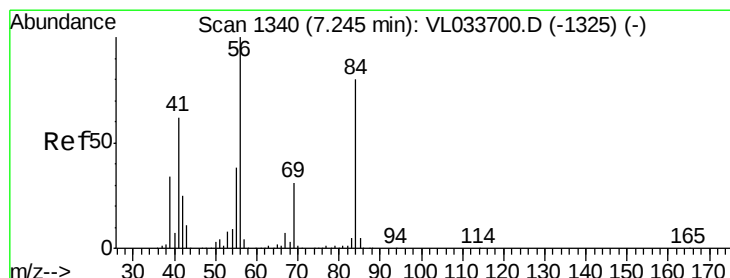
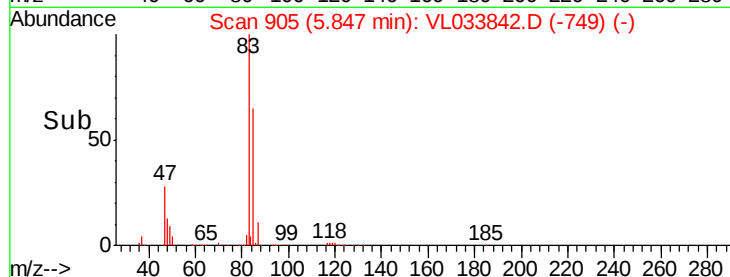
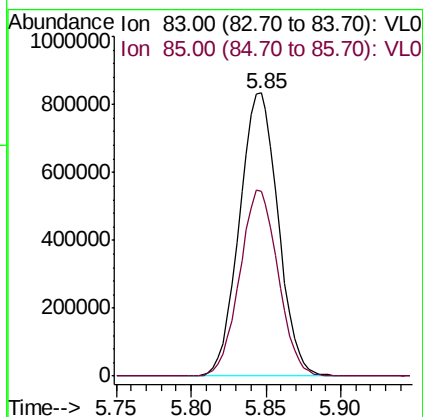
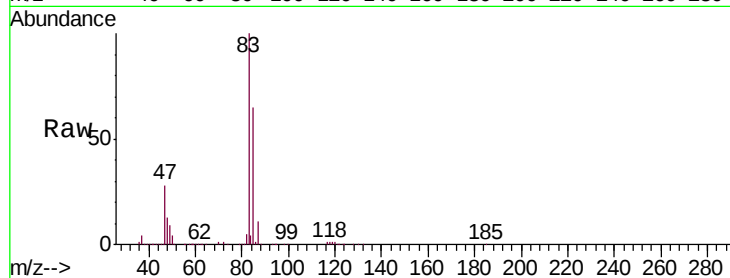




#29
Chloroform
Concen: 10.935 ppbv
RT: 5.85 min Scan# 905
Delta R.T. 0.00 min
Lab File: VL033842.D
Acq: 29 May 2019 18:50

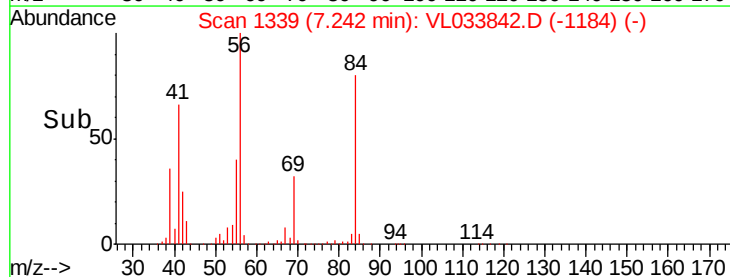
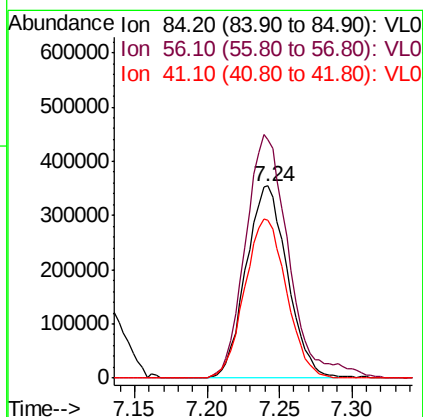
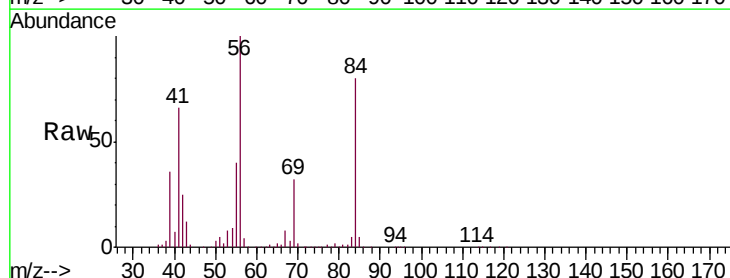
Instrument :
MSVOA_L
ClientSampleId :
VL0529ABS01

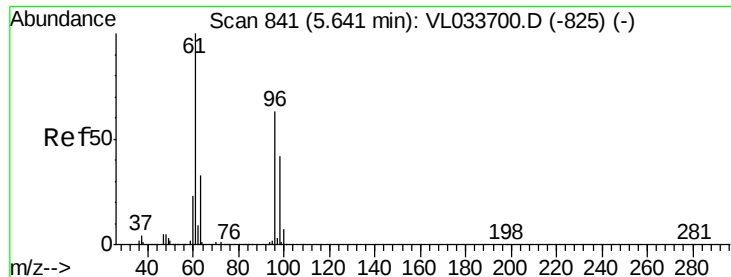
Tgt Ion: 83 Resp: 1504962
Ion Ratio Lower Upper
83 100
85 65.3 51.5 77.3



#30
Cyclohexane
Concen: 11.238 ppbv
RT: 7.24 min Scan# 1339
Delta R.T. -0.00 min
Lab File: VL033842.D
Acq: 29 May 2019 18:50

Tgt Ion: 84 Resp: 705896
Ion Ratio Lower Upper
84 100
56 132.8 107.7 161.5
41 83.7 66.0 99.0



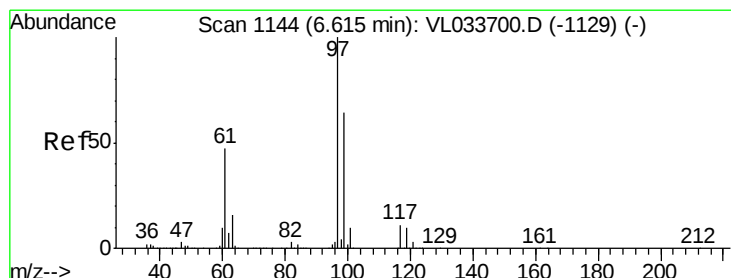
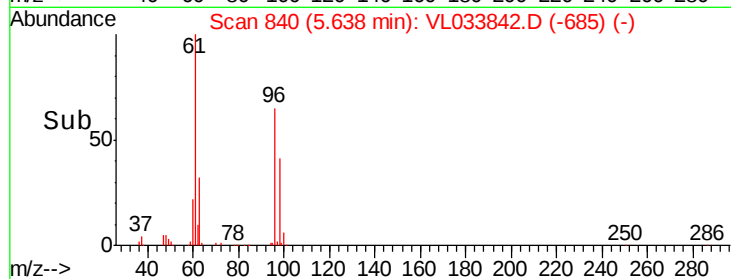
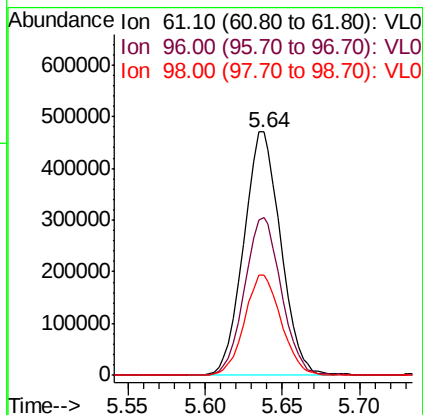
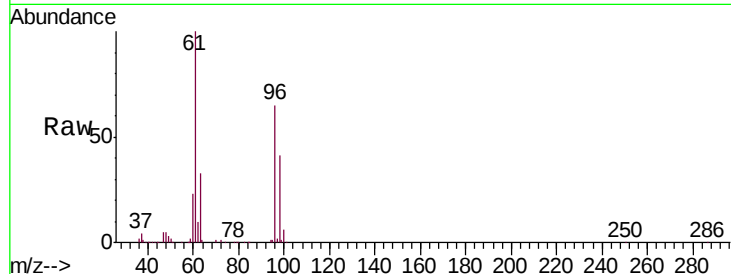


#31

cis-1,2-Dichloroethene
 Concen: 10.602 ppbv
 RT: 5.64 min Scan# 840
 Delta R.T. -0.00 min
 Lab File: VL033842.D
 Acq: 29 May 2019 18:50

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0529ABS01

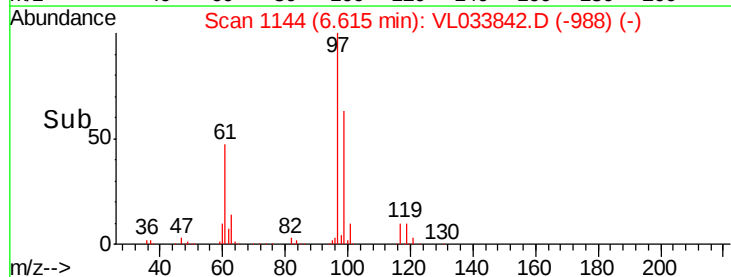
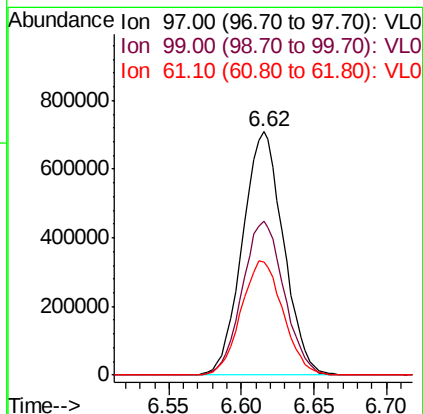
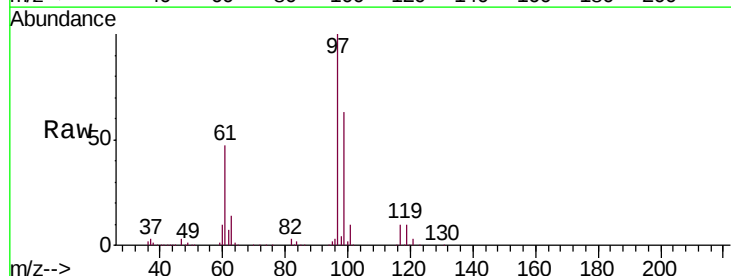
Tgt Ion: 61 Resp: 785445
 Ion Ratio Lower Upper
 61 100
 96 65.0 50.8 76.2
 98 41.2 33.3 49.9

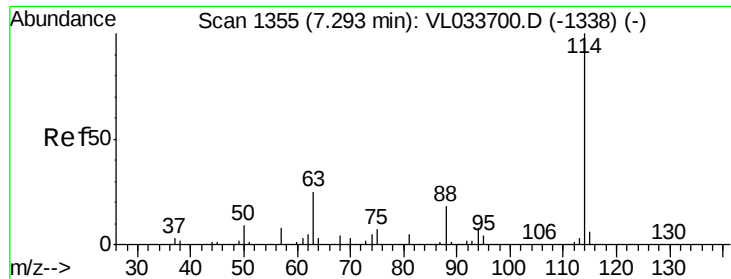


#32

1,1,1-Trichloroethane
 Concen: 10.165 ppbv
 RT: 6.62 min Scan# 1144
 Delta R.T. 0.00 min
 Lab File: VL033842.D
 Acq: 29 May 2019 18:50

Tgt Ion: 97 Resp: 1396904
 Ion Ratio Lower Upper
 97 100
 99 64.4 51.5 77.3
 61 48.1 37.8 56.8

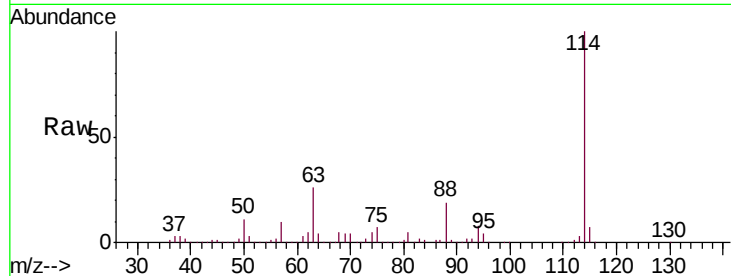




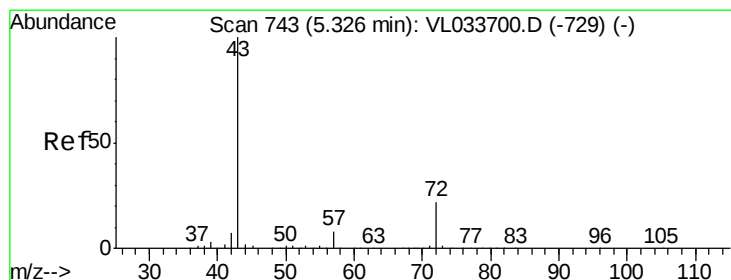
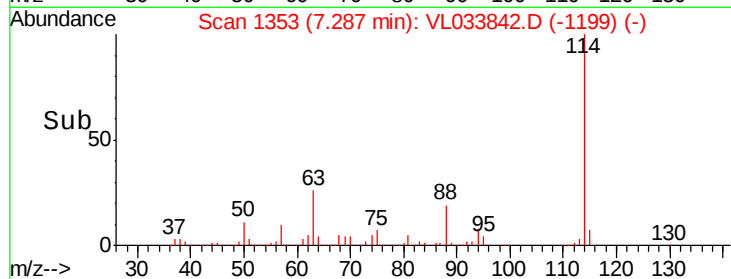
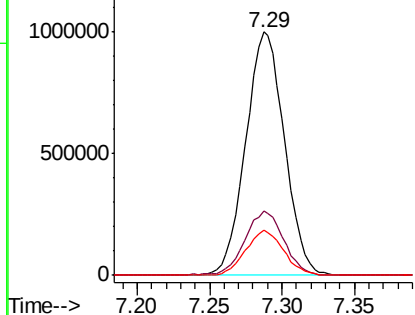
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.01 min
 Lab File: VL033842.D
 Acq: 29 May 2019 18:50

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0529ABS01

Tgt Ion: 114 Resp: 1853817
 Ion Ratio Lower Upper
 114 100
 63 26.7 20.9 31.3
 88 18.1 14.3 21.5

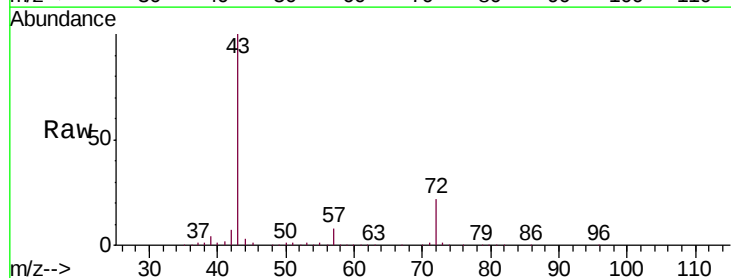


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

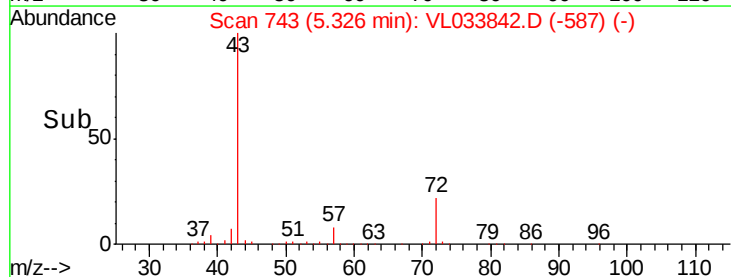
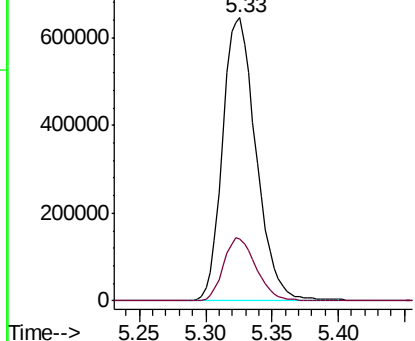


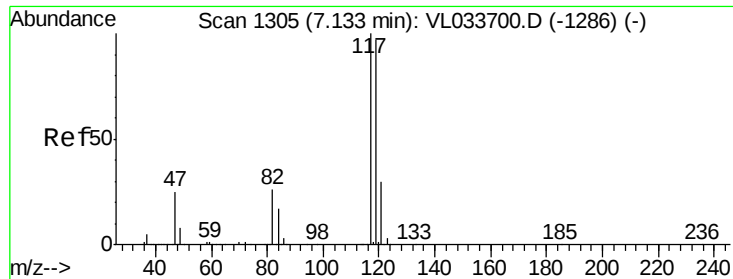
#34
 2-Butanone
 Concen: 9.822 ppbv
 RT: 5.33 min Scan# 743
 Delta R.T. 0.00 min
 Lab File: VL033842.D
 Acq: 29 May 2019 18:50

Tgt Ion: 43 Resp: 1128670
 Ion Ratio Lower Upper
 43 100
 72 21.9 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: 10.862 ppbv

RT: 7.13 min Scan# 1304

Delta R.T. -0.00 min

Lab File: VL033842.D

Acq: 29 May 2019 18:50

Instrument :

MSVOA_L

ClientSampleId :

VL0529ABS01

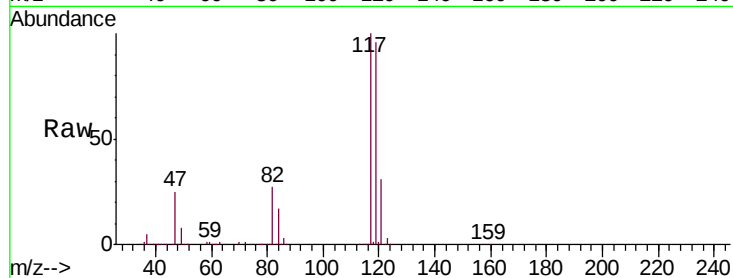
Tgt Ion:117 Resp: 1613054

Ion Ratio Lower Upper

117 100

119 95.7 77.2 115.8

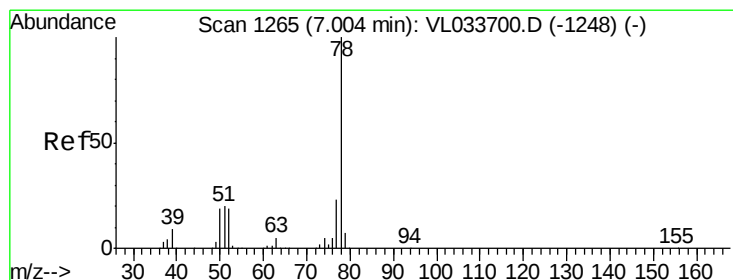
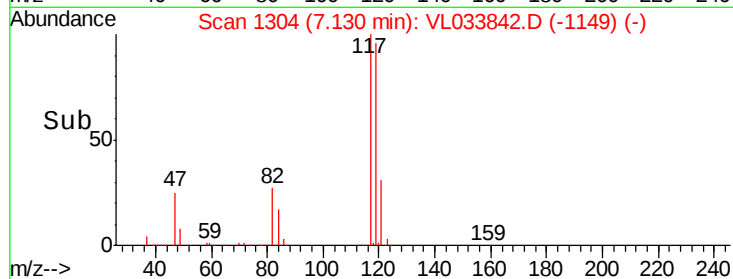
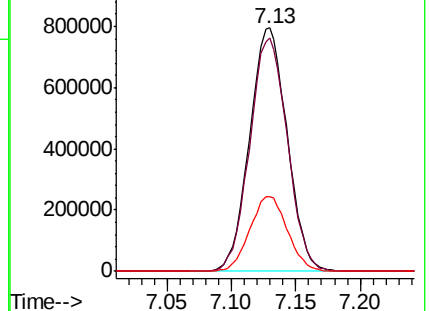
121 30.8 24.1 36.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 10.128 ppbv

RT: 7.00 min Scan# 1264

Delta R.T. -0.00 min

Lab File: VL033842.D

Acq: 29 May 2019 18:50

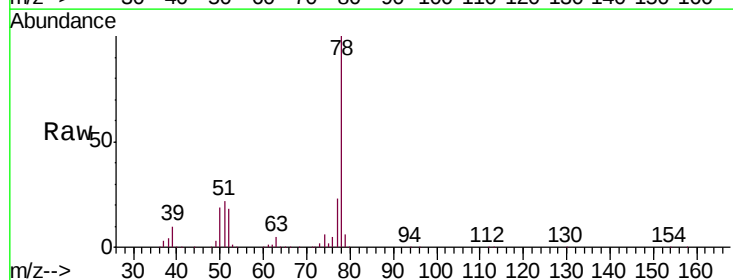
Tgt Ion: 78 Resp: 1707972

Ion Ratio Lower Upper

78 100

77 22.9 18.4 27.6

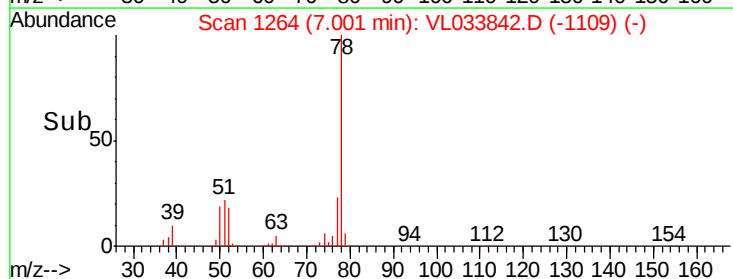
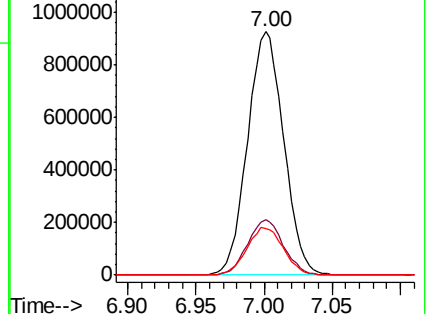
50 19.2 15.5 23.3

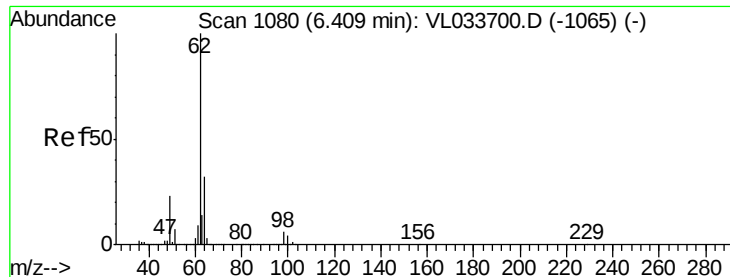


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 10.157 ppbv

RT: 6.41 min Scan# 1080

Delta R.T. 0.00 min

Lab File: VL033842.D

Acq: 29 May 2019 18:50

Instrument :

MSVOA_L

ClientSampleId :

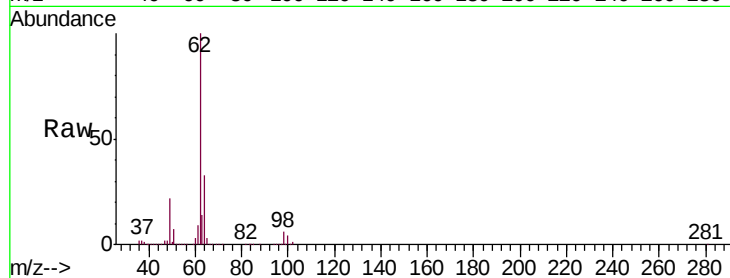
VL0529ABS01

Tgt Ion: 62 Resp: 1104854

Ion Ratio Lower Upper

62 100

98 5.0 4.5 6.7



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

6.41

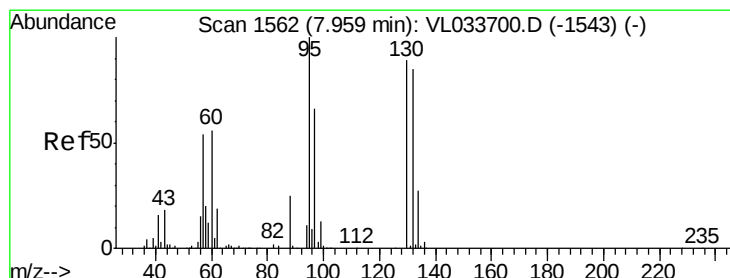
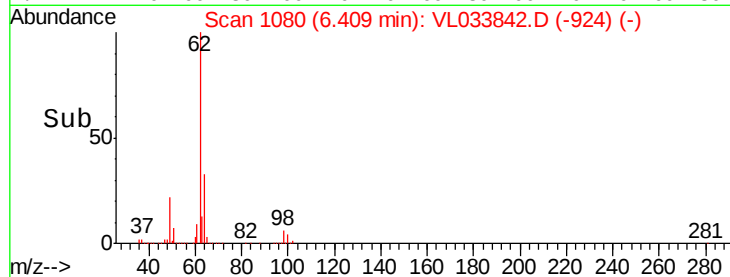
600000

400000

200000

0

Time-->



#38

Trichloroethene

Concen: 11.798 ppbv

RT: 7.96 min Scan# 1561

Delta R.T. -0.00 min

Lab File: VL033842.D

Acq: 29 May 2019 18:50

Tgt Ion: 130 Resp: 738272

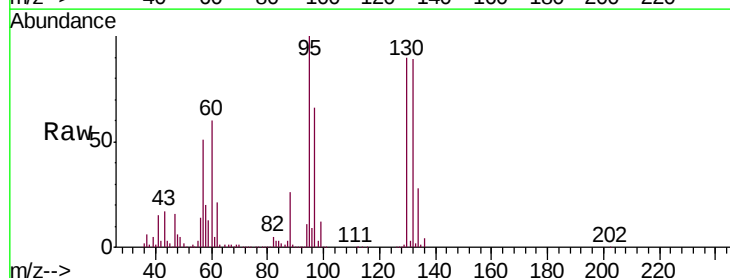
Ion Ratio Lower Upper

130 100

95 111.6 90.2 135.4

132 99.5 76.4 114.6

97 73.5 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

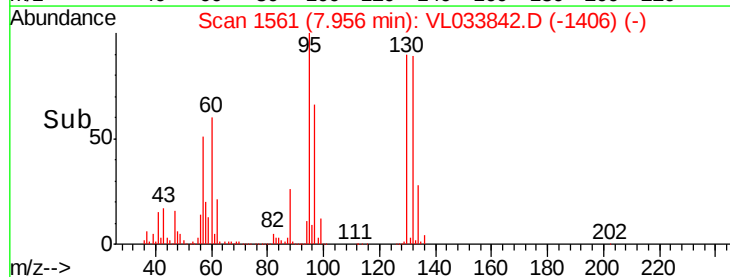
600000

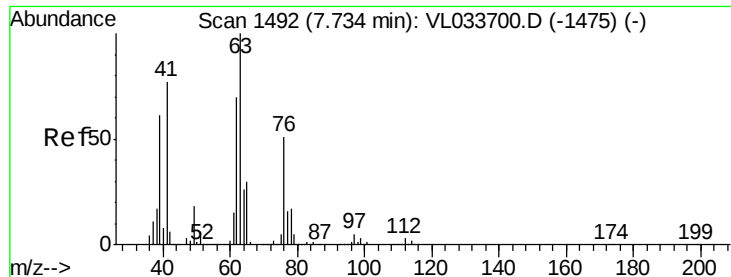
400000

200000

0

Time-->

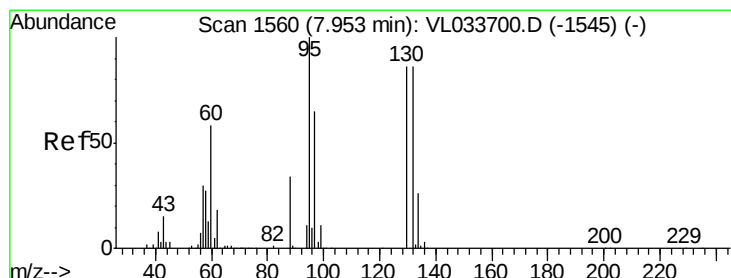
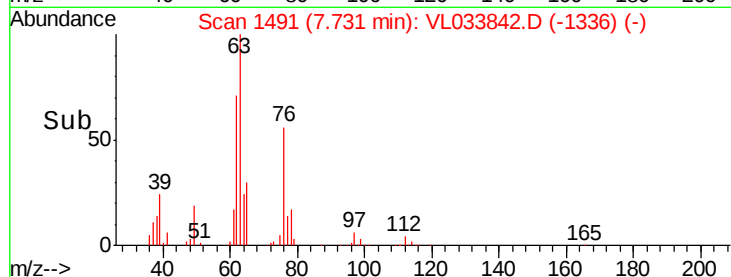
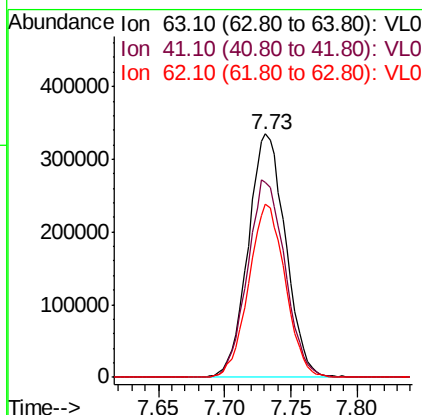
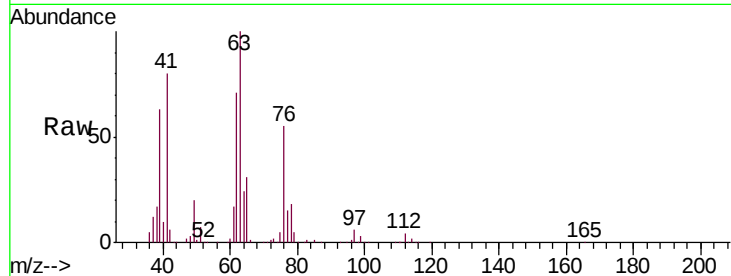




#39
 1,2-Dichloropropane
 Concen: 10.471 ppbv
 RT: 7.73 min Scan# 1491
 Delta R.T. -0.00 min
 Lab File: VL033842.D
 Acq: 29 May 2019 18:50

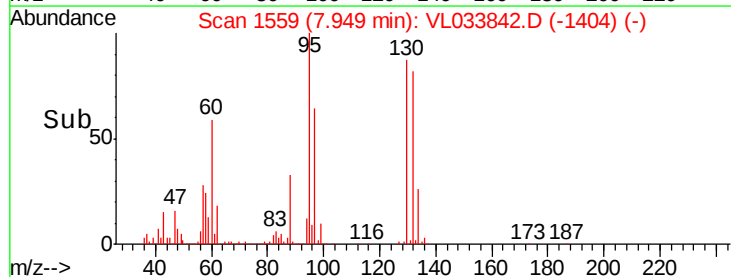
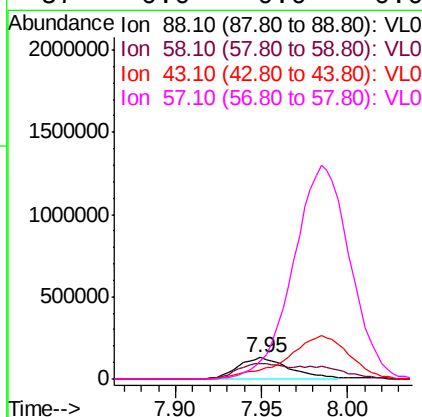
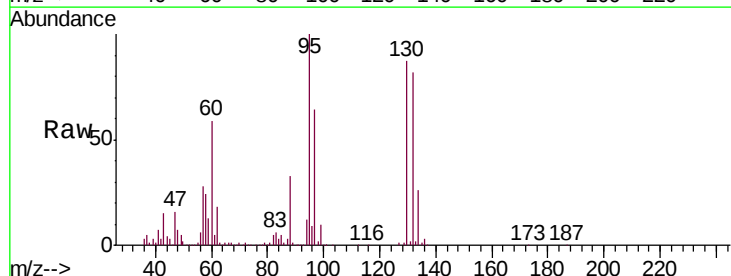
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0529ABS01

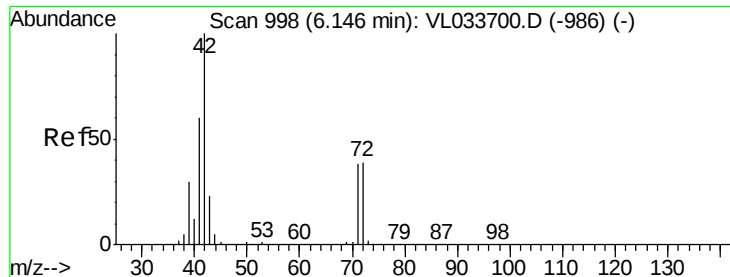
Tgt Ion: 63 Resp: 658309
 Ion Ratio Lower Upper
 63 100
 41 80.0 61.5 92.3
 62 71.1 56.2 84.4



#40
 1,4-Dioxane
 Concen: 10.112 ppbv
 RT: 7.95 min Scan# 1559
 Delta R.T. -0.00 min
 Lab File: VL033842.D
 Acq: 29 May 2019 18:50

Tgt Ion: 88 Resp: 265950
 Ion Ratio Lower Upper
 88 100
 58 128.5 101.8 152.6
 43 0.0 0.0 0.0
 57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 10.989 ppbv

RT: 6.14 min Scan# 997

Delta R.T. -0.00 min

Lab File: VL033842.D

Acq: 29 May 2019 18:50

Instrument :

MSVOA_L

ClientSampleId :

VL0529ABS01

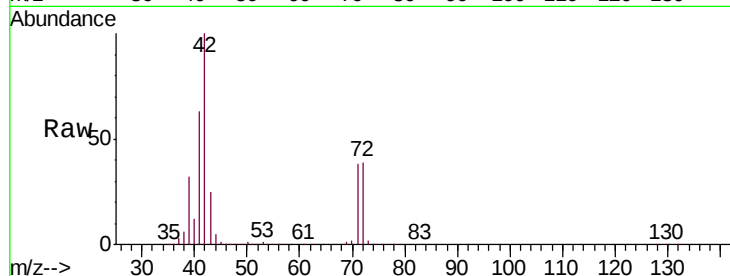
Tgt Ion: 42 Resp: 707478

Ion Ratio Lower Upper

42 100

72 39.9 32.0 48.0

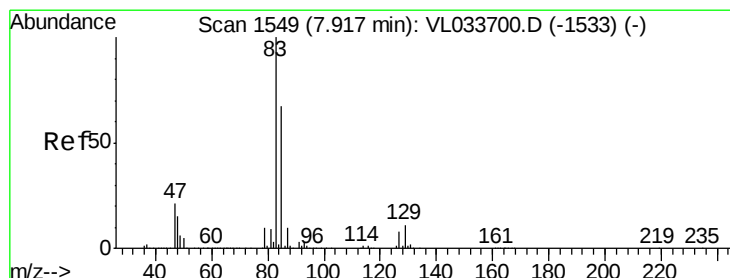
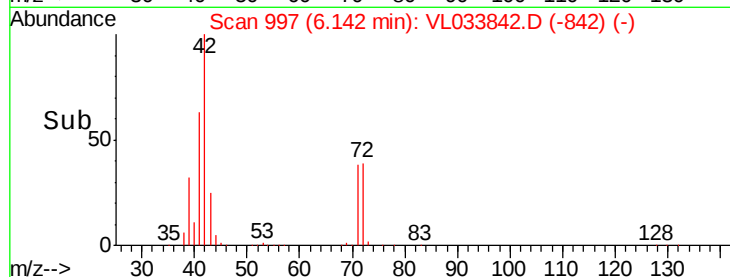
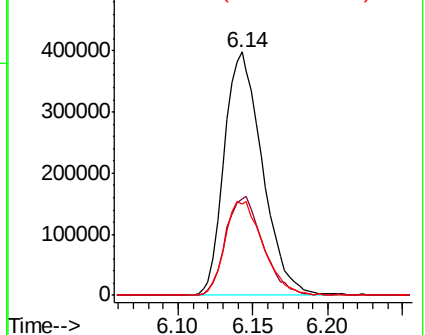
71 39.1 30.4 45.6



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: 10.963 ppbv

RT: 7.91 min Scan# 1548

Delta R.T. -0.00 min

Lab File: VL033842.D

Acq: 29 May 2019 18:50

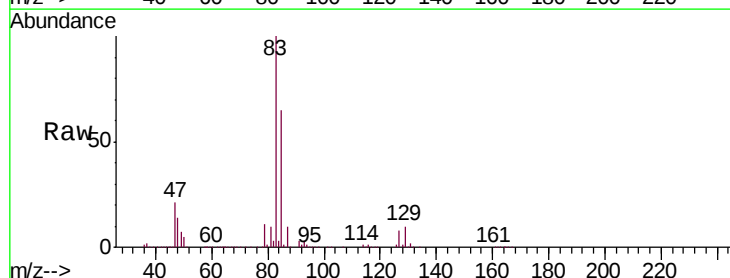
Tgt Ion: 83 Resp: 1632588

Ion Ratio Lower Upper

83 100

85 64.6 53.3 79.9

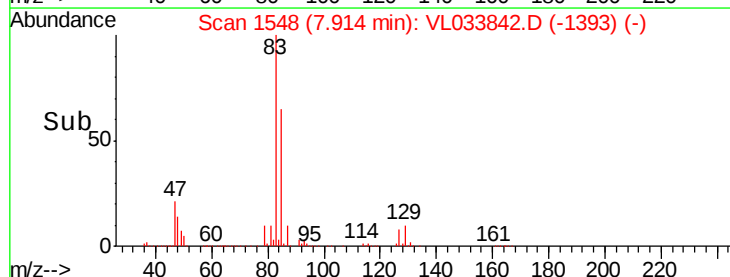
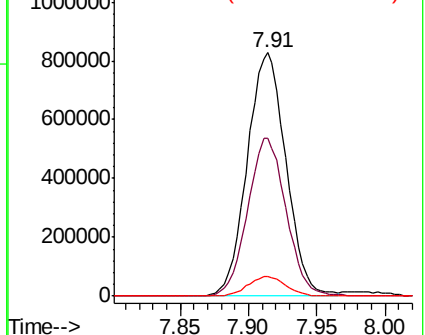
127 7.9 6.5 9.7

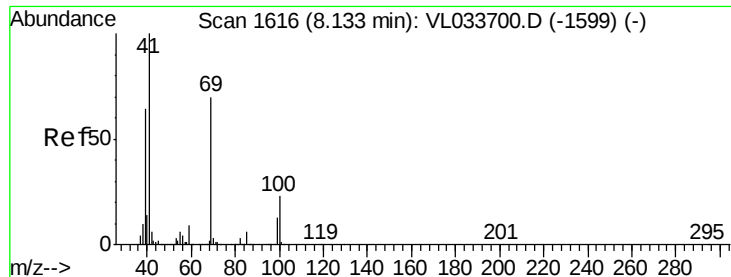


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V

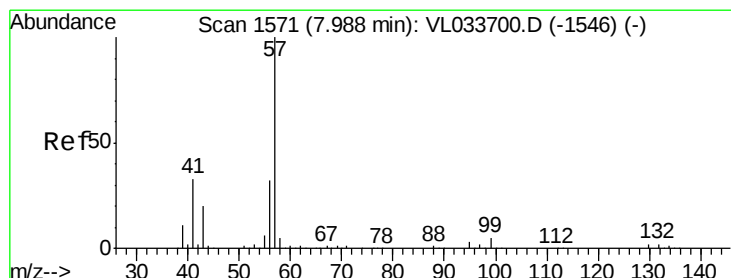
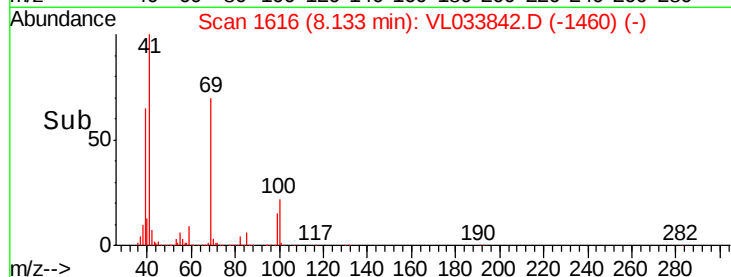
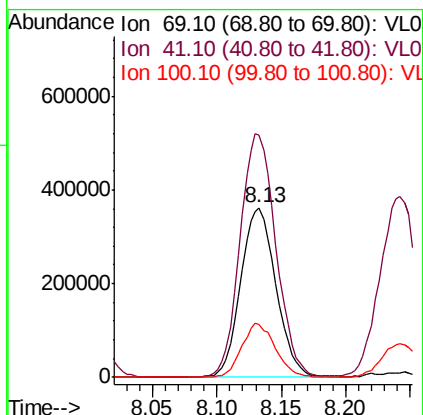
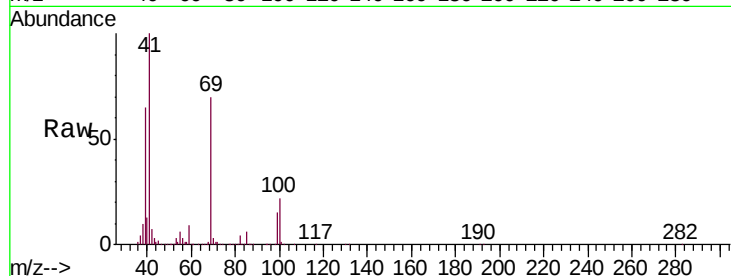




#43
Methyl Methacrylate
Concen: 11.122 ppbv
RT: 8.13 min Scan# 1616
Delta R.T. 0.00 min
Lab File: VL033842.D
Acq: 29 May 2019 18:50

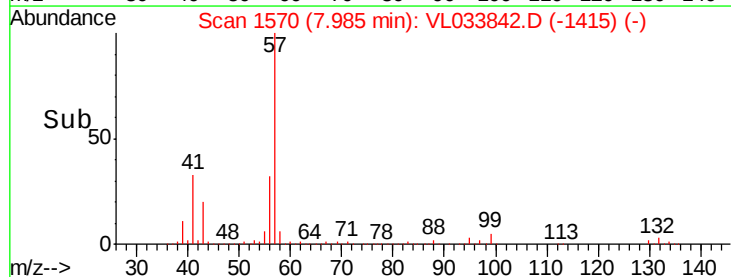
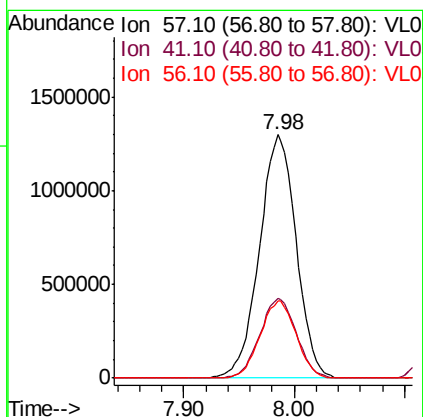
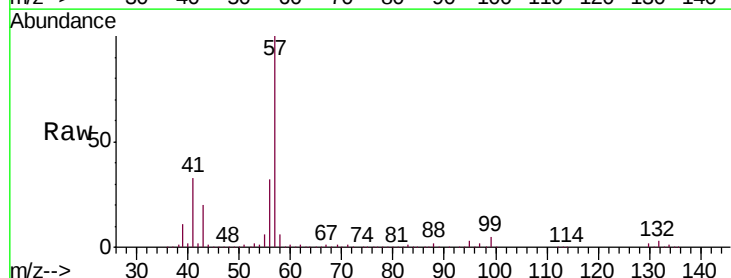
Instrument :
MSVOA_L
ClientSampleId :
VL0529ABS01

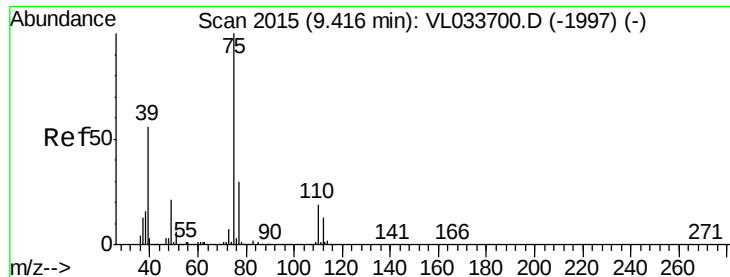
Tgt Ion: 69 Resp: 690234
Ion Ratio Lower Upper
69 100
41 146.0 116.3 174.5
100 30.4 25.3 37.9



#44
2,2,4-Trimethylpentane
Concen: 10.516 ppbv
RT: 7.98 min Scan# 1570
Delta R.T. -0.00 min
Lab File: VL033842.D
Acq: 29 May 2019 18:50

Tgt Ion: 57 Resp: 2997175
Ion Ratio Lower Upper
57 100
41 32.7 25.4 38.0
56 31.2 24.7 37.1





#45

t-1,3-Dichloropropene

Concen: 11.224 ppbv

RT: 9.41 min Scan# 2013

Delta R.T. -0.01 min

Lab File: VL033842.D

Acq: 29 May 2019 18:50

Instrument :

MSVOA_L

ClientSampleId :

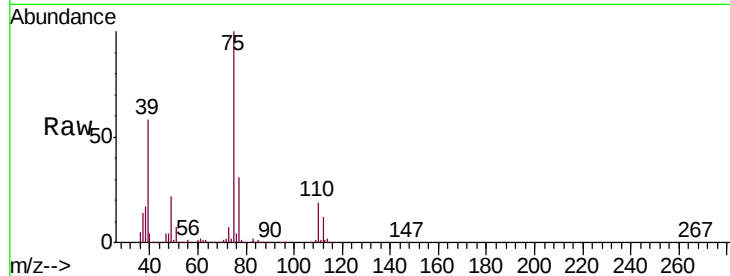
VL0529ABS01

Tgt Ion: 75 Resp: 883048

Ion Ratio Lower Upper

75 100

77 31.3 24.4 36.6



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

9.41

500000

400000

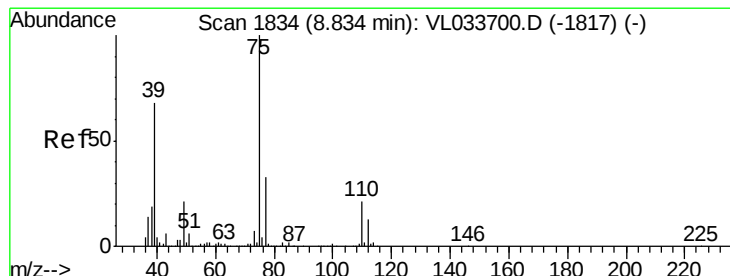
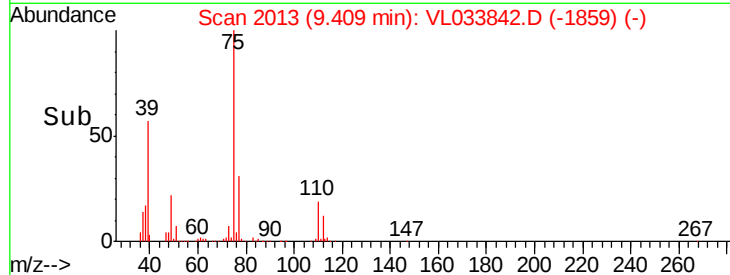
300000

200000

100000

0

Time--> 9.30 9.35 9.40 9.45 9.50



#46

cis-1,3-Dichloropropene

Concen: 11.289 ppbv

RT: 8.83 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VL033842.D

Acq: 29 May 2019 18:50

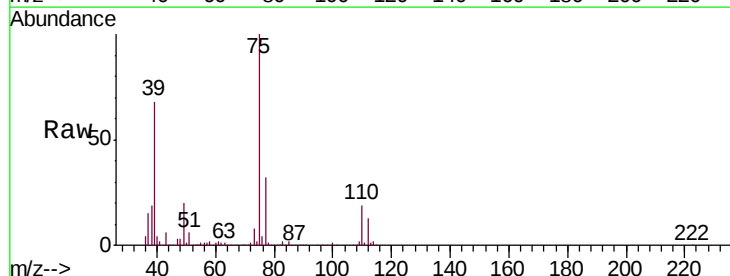
Tgt Ion: 75 Resp: 1039979

Ion Ratio Lower Upper

75 100

39 67.6 54.4 81.6

77 31.9 26.6 39.8



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

8.83

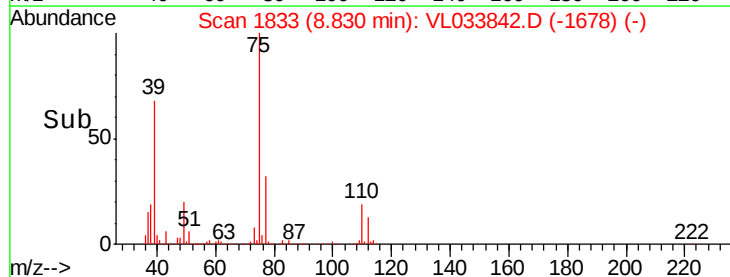
600000

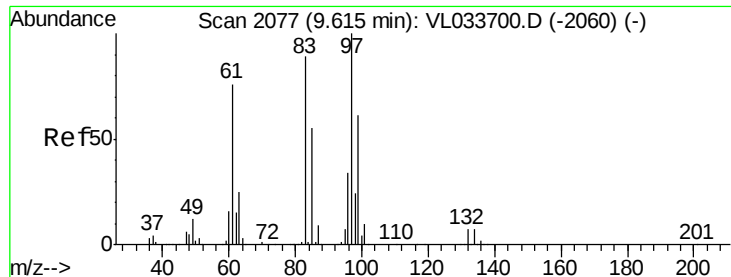
400000

200000

0

Time--> 8.75 8.80 8.85 8.90

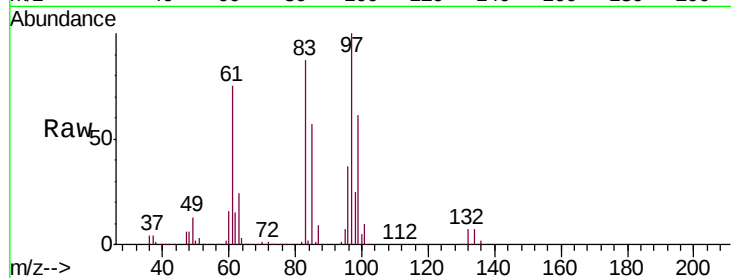




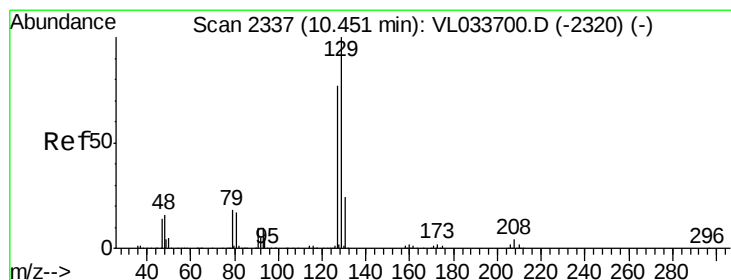
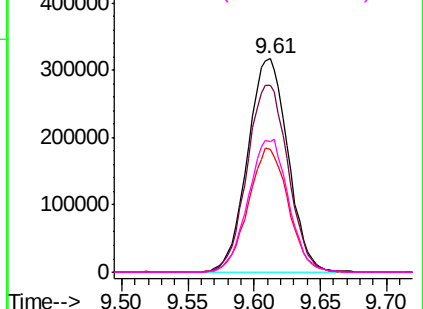
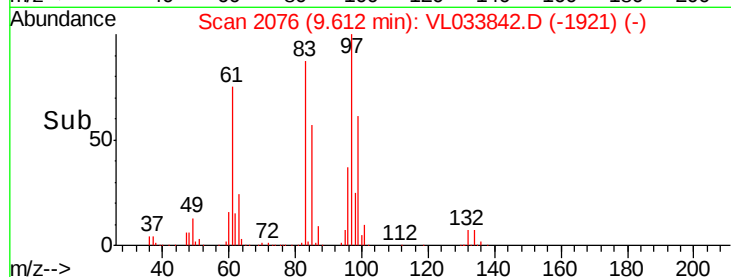
#47
 1,1,2-Trichloroethane
 Concen: 9.451 ppbv
 RT: 9.61 min Scan# 2076
 Delta R.T. -0.00 min
 Lab File: VL033842.D
 Acq: 29 May 2019 18:50

Instrument :
 MSVOA_L
 ClientSampleID :
 VL0529ABS01

Tgt Ion: 97 Resp: 675051
 Ion Ratio Lower Upper
 97 100
 83 87.2 70.8 106.2
 85 57.4 43.7 65.5
 99 61.4 48.7 73.1

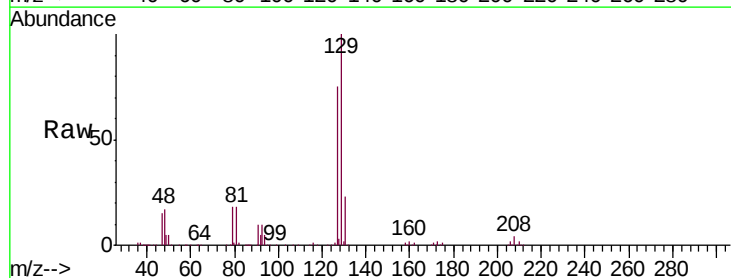


Abundance Ion 97.00 (96.70 to 97.70): VL0
 Ion 83.00 (82.70 to 83.70): VL0
 Ion 85.00 (84.70 to 85.70): VL0
 Ion 99.00 (98.70 to 99.70): VL0

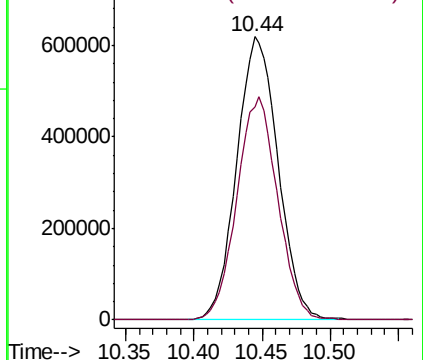
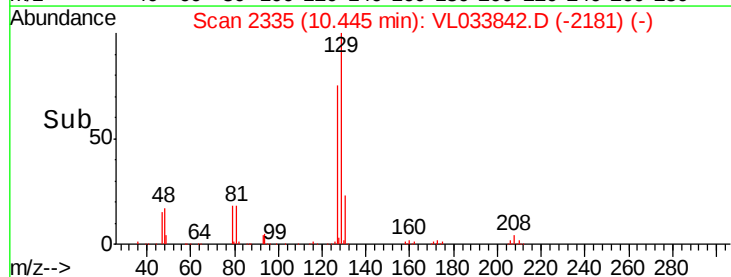


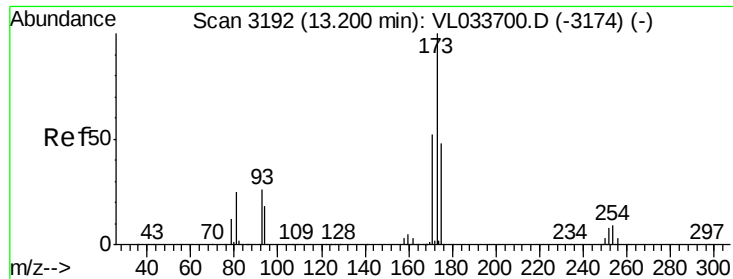
#48
 Dibromochloromethane
 Concen: 10.549 ppbv
 RT: 10.44 min Scan# 2335
 Delta R.T. -0.01 min
 Lab File: VL033842.D
 Acq: 29 May 2019 18:50

Tgt Ion: 129 Resp: 1305443
 Ion Ratio Lower Upper
 129 100
 127 77.8 38.6 116.0



Abundance Ion 129.00 (128.70 to 129.70): V
 Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 11.947 ppbv

RT: 13.20 min Scan# 3191

Delta R.T. -0.00 min

Lab File: VL033842.D

Acq: 29 May 2019 18:50

Instrument :

MSVOA_L

ClientSampleId :

VL0529ABS01

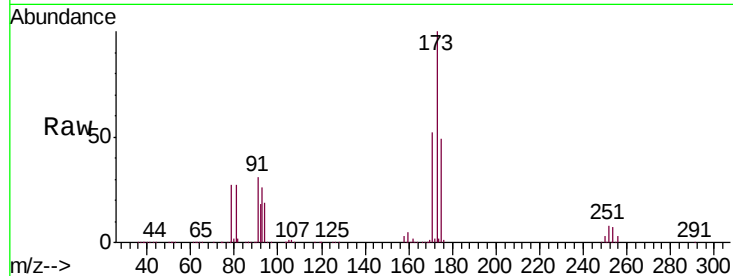
Tgt Ion:173 Resp: 1244014

Ion Ratio Lower Upper

173 100

175 48.4 38.6 58.0

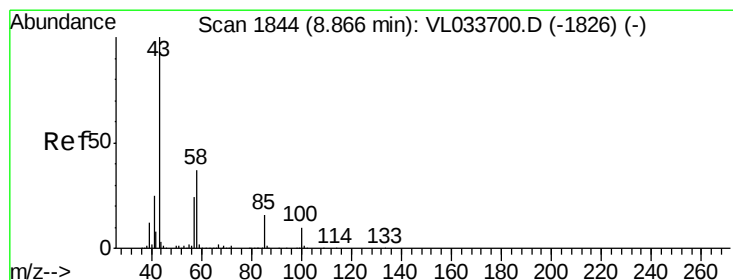
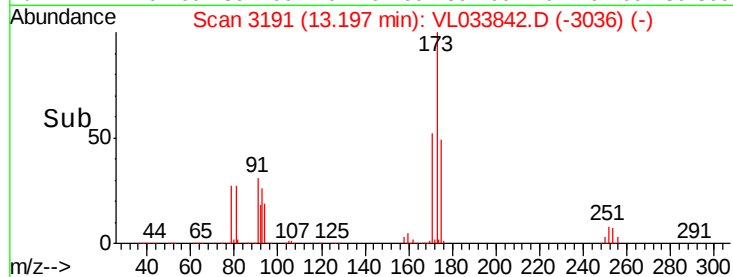
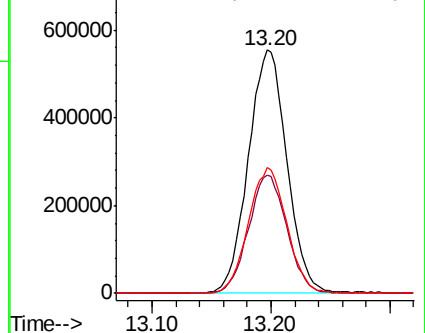
171 51.8 41.5 62.3



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 10.503 ppbv

RT: 8.86 min Scan# 1843

Delta R.T. -0.00 min

Lab File: VL033842.D

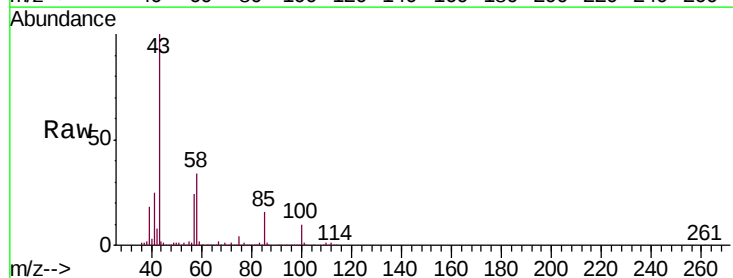
Acq: 29 May 2019 18:50

Tgt Ion: 43 Resp: 1856396

Ion Ratio Lower Upper

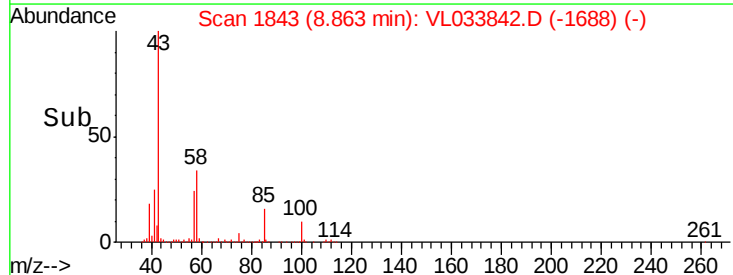
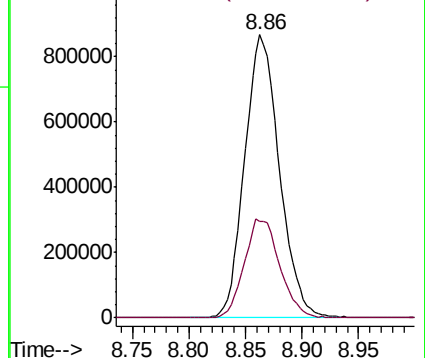
43 100

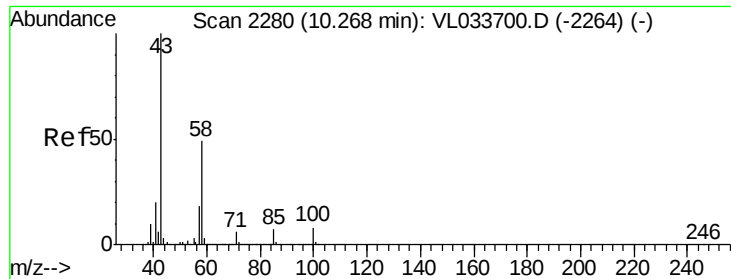
58 35.7 28.6 43.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

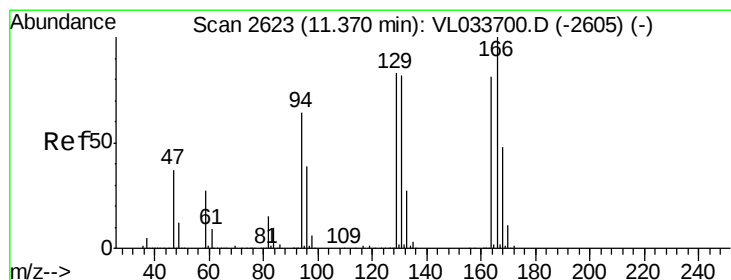
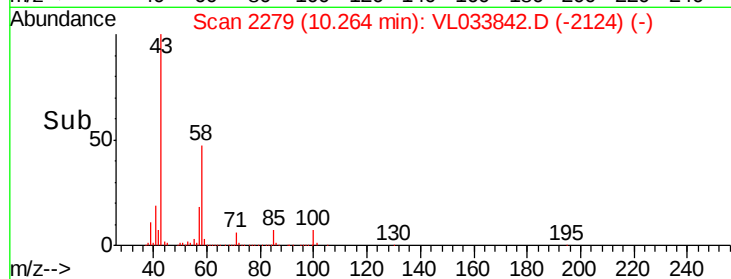
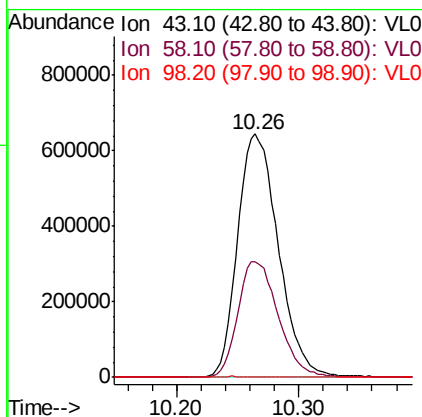
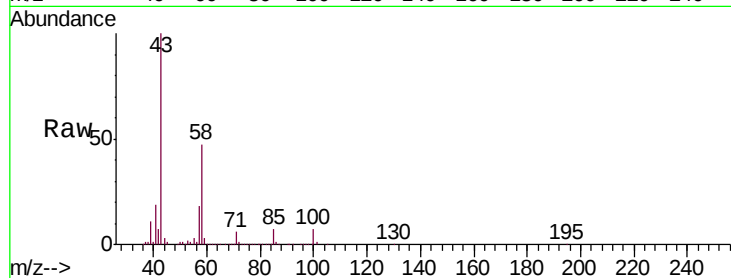




#51
2-Hexanone
Concen: 10.761 ppbv
RT: 10.26 min Scan# 2279
Delta R.T. -0.00 min
Lab File: VL033842.D
Acq: 29 May 2019 18:50

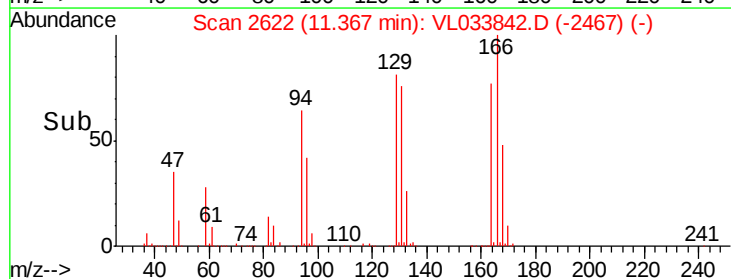
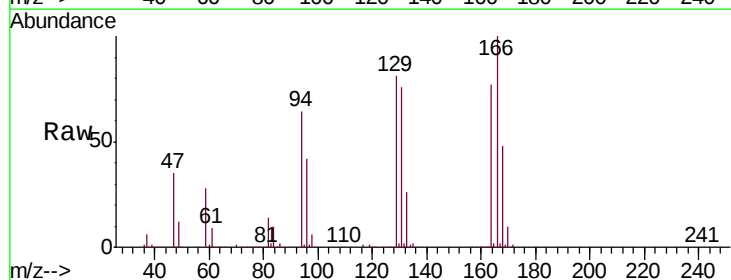
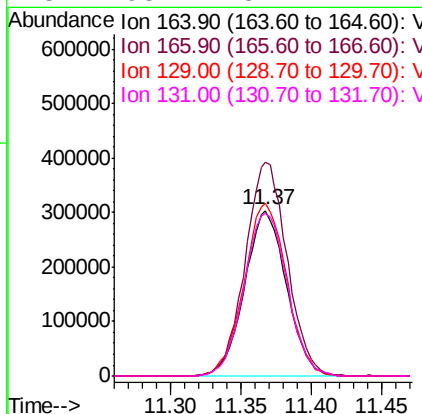
Instrument :
MSVOA_L
ClientSampleId :
VL0529ABS01

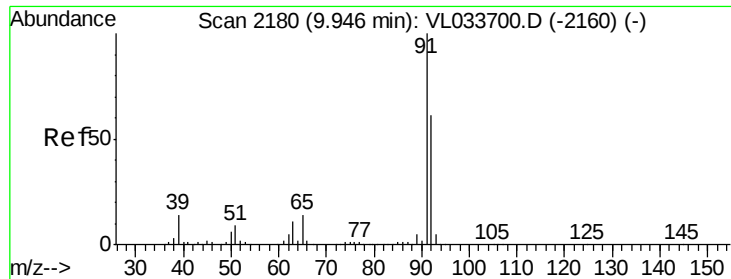
Tgt Ion: 43 Resp: 1484343
Ion Ratio Lower Upper
43 100
58 47.3 38.7 58.1
98 0.5 0.2 0.4#



#52
Tetrachloroethene
Concen: 10.610 ppbv
RT: 11.37 min Scan# 2622
Delta R.T. -0.00 min
Lab File: VL033842.D
Acq: 29 May 2019 18:50

Tgt Ion: 164 Resp: 628945
Ion Ratio Lower Upper
164 100
166 129.1 98.9 148.3
129 104.5 81.8 122.6
131 98.2 81.1 121.7





#53

Toluene

Concen: 10.651 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.00 min

Lab File: VL033842.D

Acq: 29 May 2019 18:50

Instrument :

MSVOA_L

ClientSampleId :

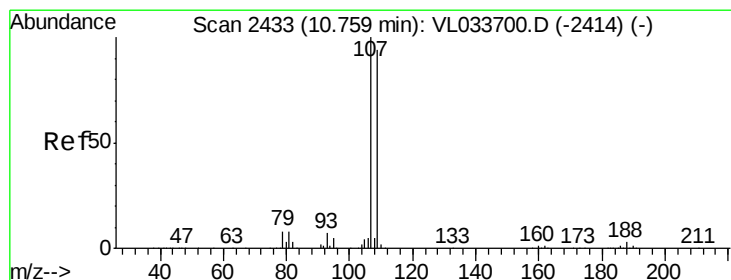
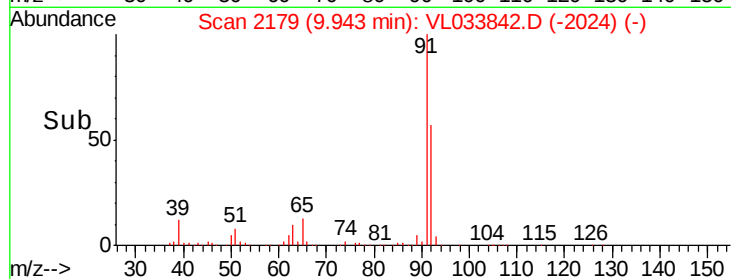
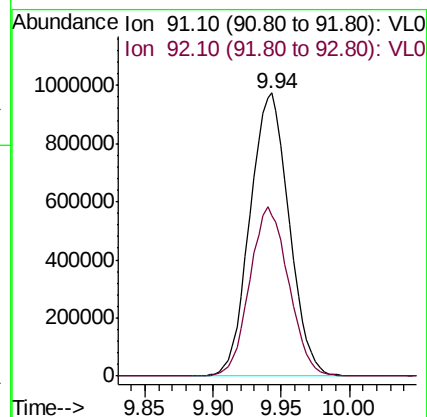
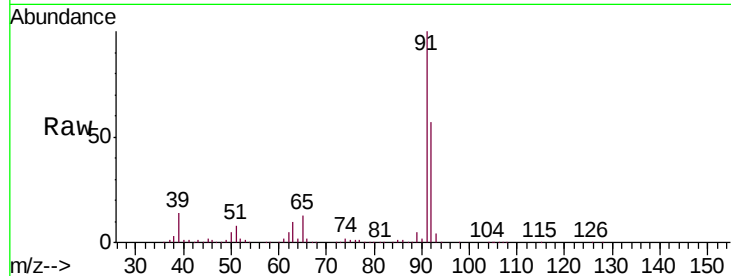
VL0529ABS01

Tgt Ion: 91 Resp: 1937184

Ion Ratio Lower Upper

91 100

92 59.6 47.6 71.4



#54

1,2-Dibromoethane

Concen: 10.102 ppbv

RT: 10.76 min Scan# 2432

Delta R.T. -0.00 min

Lab File: VL033842.D

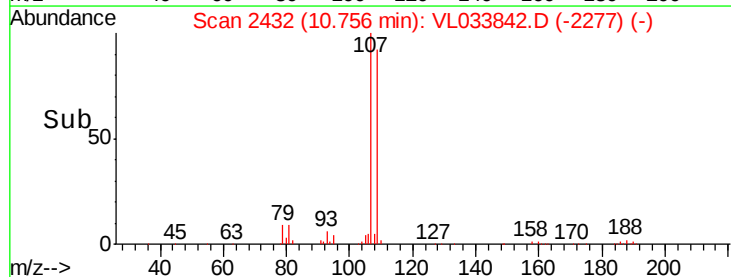
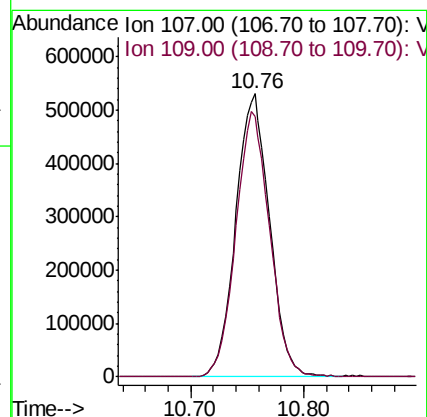
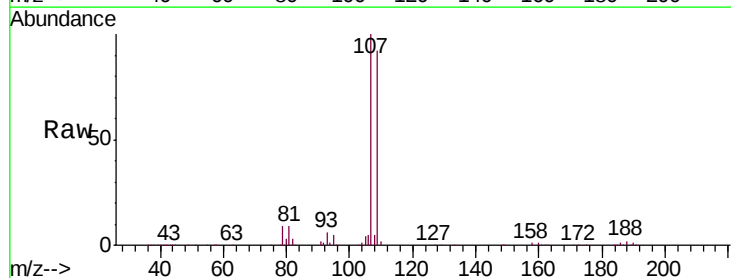
Acq: 29 May 2019 18:50

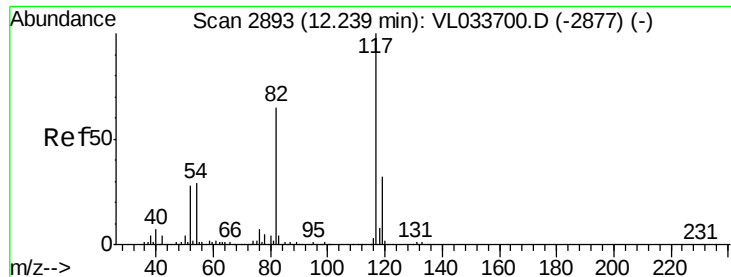
Tgt Ion: 107 Resp: 1101054

Ion Ratio Lower Upper

107 100

109 91.9 75.2 112.8

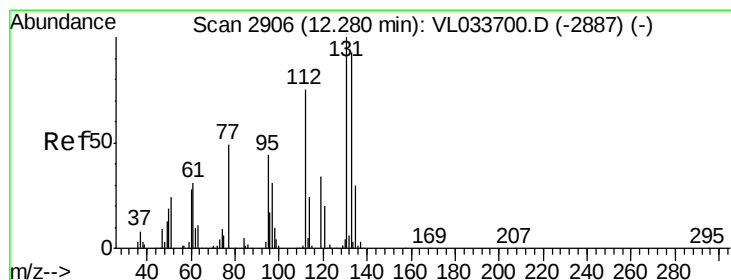
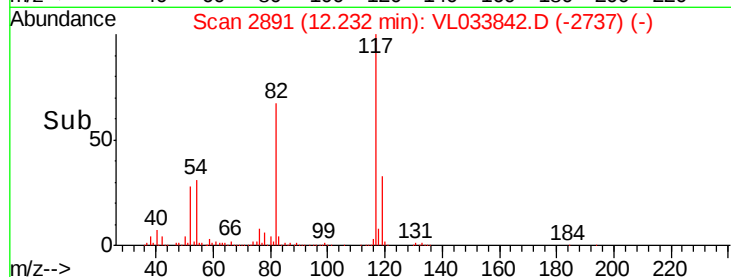
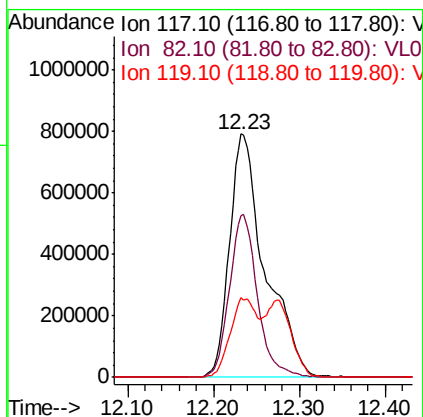
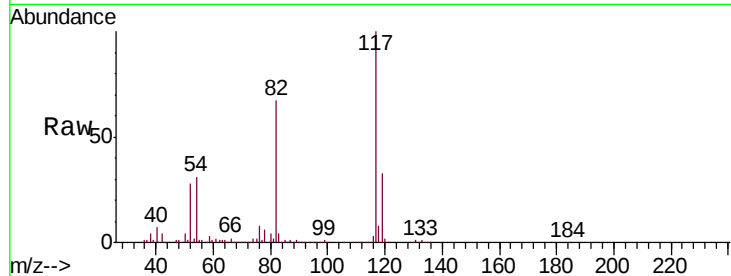




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.23 min Scan# 2891
Delta R.T. -0.01 min
Lab File: VL033842.D
Acq: 29 May 2019 18:50

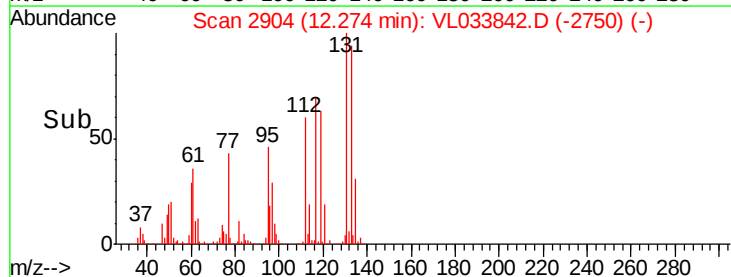
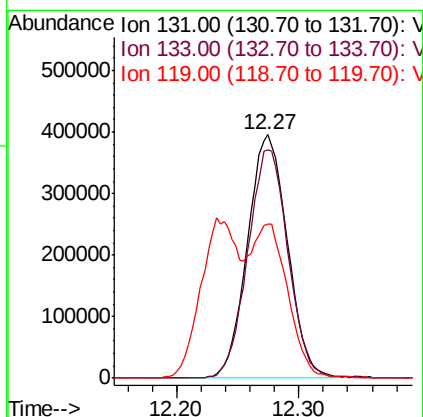
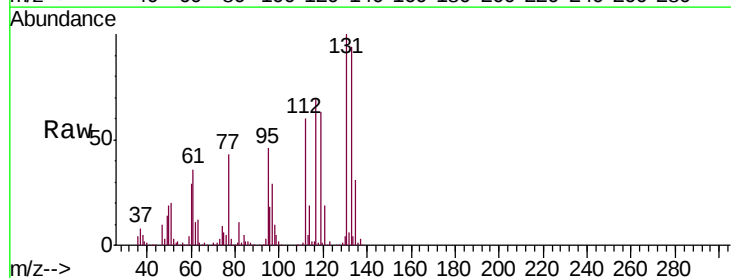
Instrument :
MSVOA_L
ClientSampleId :
VL0529ABS01

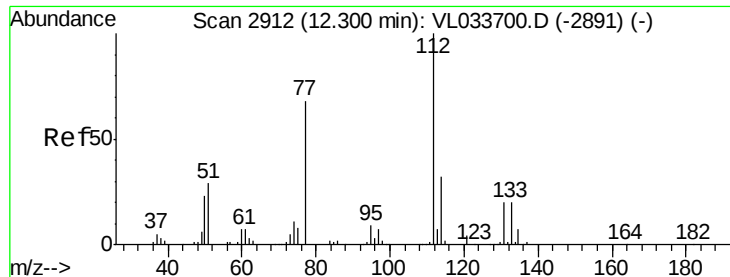
Tgt Ion:117 Resp: 2277067
Ion Ratio Lower Upper
117 100
82 52.8 49.4 74.0
119 26.5 24.9 37.3



#56
1,1,1,2-Tetrachloroethane
Concen: 8.470 ppbv
RT: 12.27 min Scan# 2904
Delta R.T. -0.01 min
Lab File: VL033842.D
Acq: 29 May 2019 18:50

Tgt Ion:131 Resp: 892420
Ion Ratio Lower Upper
131 100
133 95.1 76.6 114.8
119 54.8 49.0 73.4

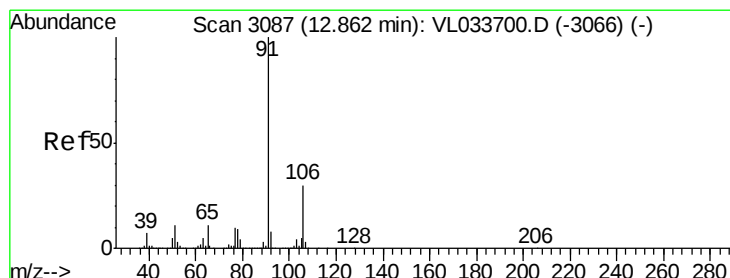
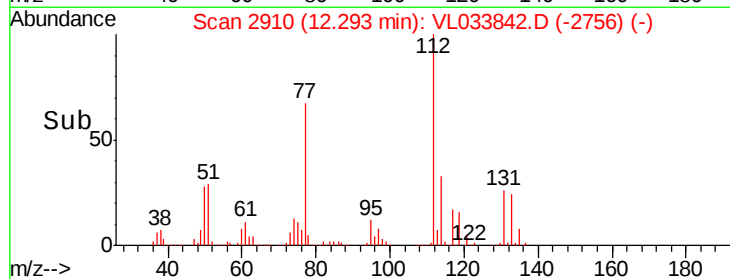
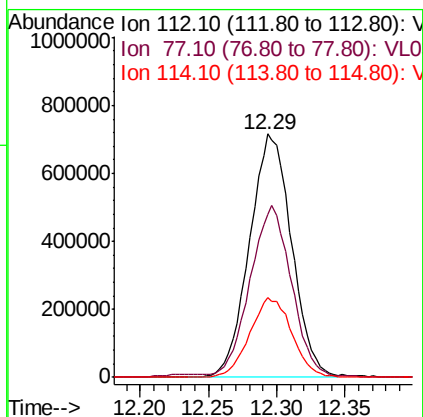
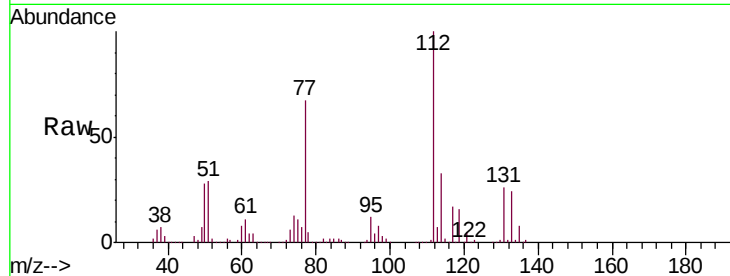




#57
Chlorobenzene
Concen: 8.198 ppbv
RT: 12.29 min Scan# 2910
Delta R.T. -0.01 min
Lab File: VL033842.D
Acq: 29 May 2019 18:50

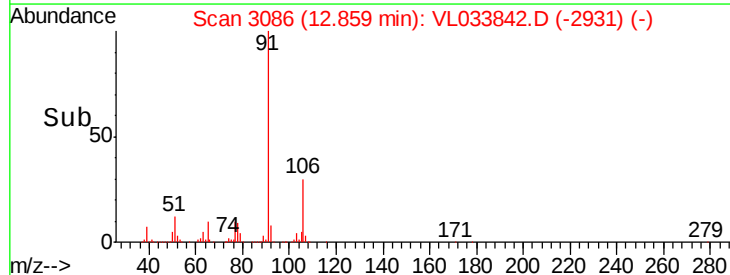
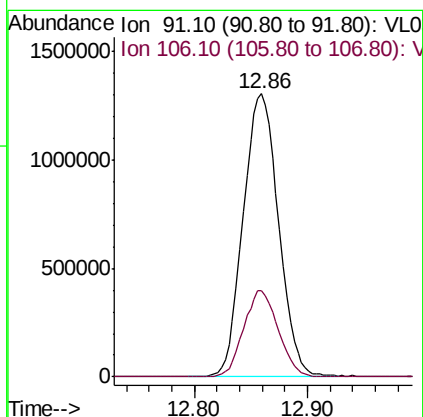
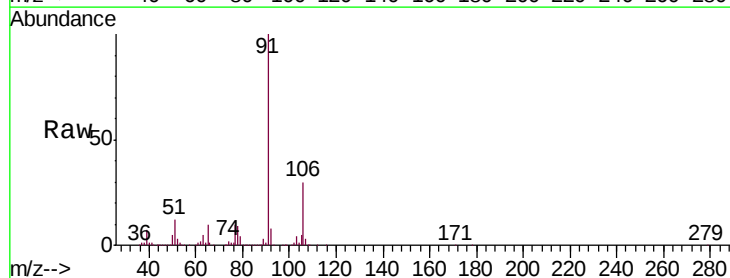
Instrument :
MSVOA_L
ClientSampleId :
VL0529ABS01

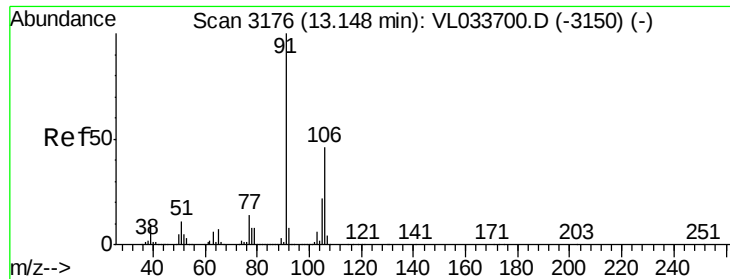
Tgt Ion: 112 Resp: 1536590
Ion Ratio Lower Upper
112 100
77 66.4 55.4 83.0
114 32.6 29.3 35.8



#58
Ethyl Benzene
Concen: 9.417 ppbv
RT: 12.86 min Scan# 3086
Delta R.T. -0.00 min
Lab File: VL033842.D
Acq: 29 May 2019 18:50

Tgt Ion: 91 Resp: 2839483
Ion Ratio Lower Upper
91 100
106 30.3 23.9 35.9

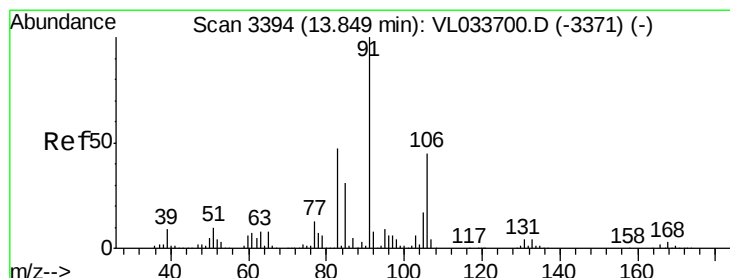
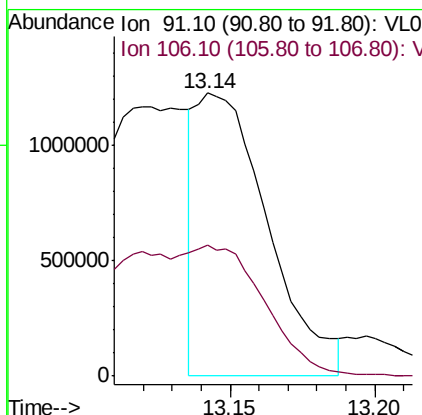
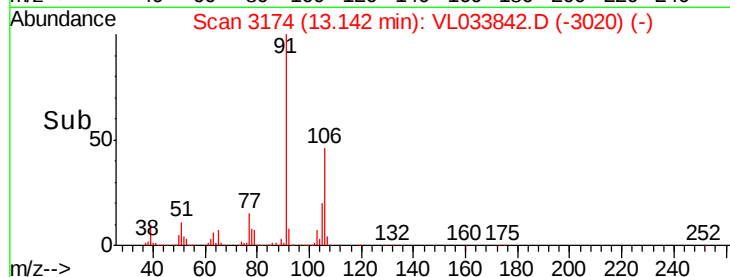
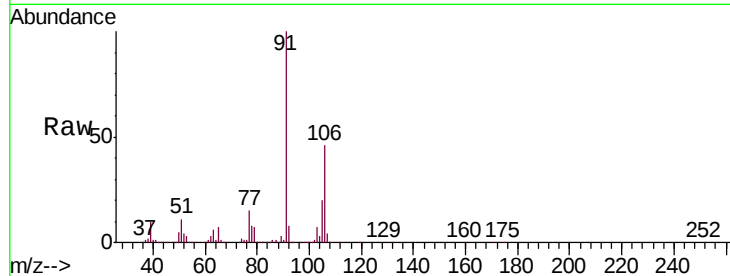




#59
m/p-Xylene
Concen: 7.967 ppbv
RT: 13.14 min Scan# 3174
Delta R.T. -0.01 min
Lab File: VL033842.D
Acq: 29 May 2019 18:50

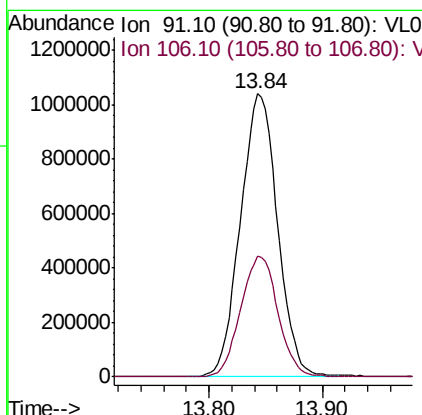
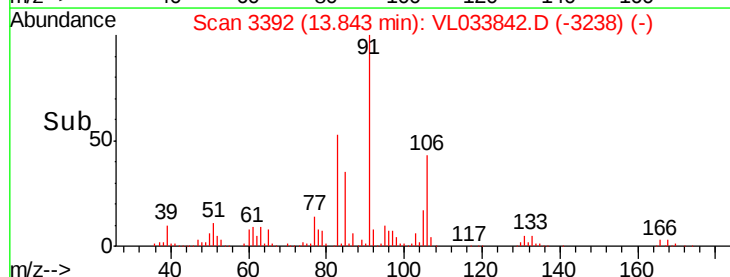
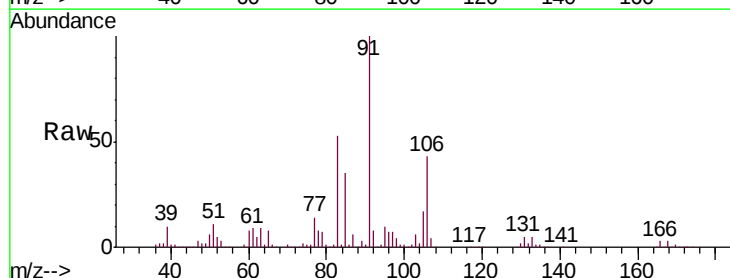
Instrument :
MSVOA_L
ClientSampleId :
VL0529ABS01

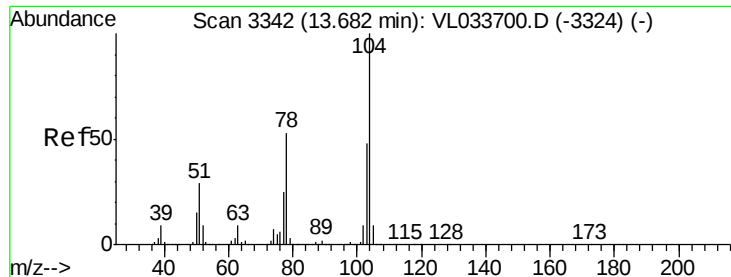
Tgt Ion: 91 Resp: 2100156
Ion Ratio Lower Upper
91 100
106 103.8 35.8 53.6#



#60
o-Xylene
Concen: 8.926 ppbv
RT: 13.84 min Scan# 3392
Delta R.T. -0.01 min
Lab File: VL033842.D
Acq: 29 May 2019 18:50

Tgt Ion: 91 Resp: 2371706
Ion Ratio Lower Upper
91 100
106 43.1 21.6 64.8





#61

Styrene

Concen: 9.708 ppbv

RT: 13.68 min Scan# 3341

Delta R.T. -0.00 min

Lab File: VL033842.D

Acq: 29 May 2019 18:50

Instrument :

MSVOA_L

ClientSampleId :

VL0529ABS01

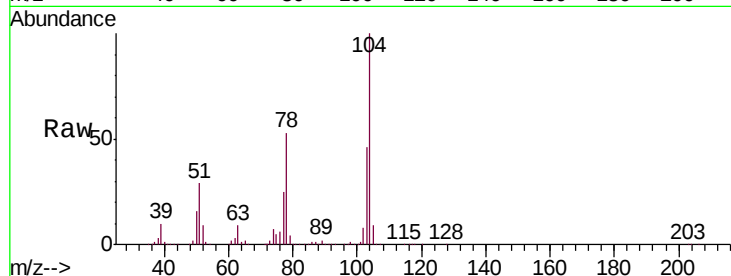
Tgt Ion:104 Resp: 1736807

Ion Ratio Lower Upper

104 100

78 54.2 42.6 64.0

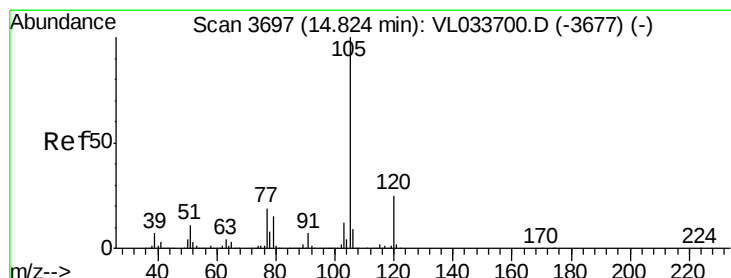
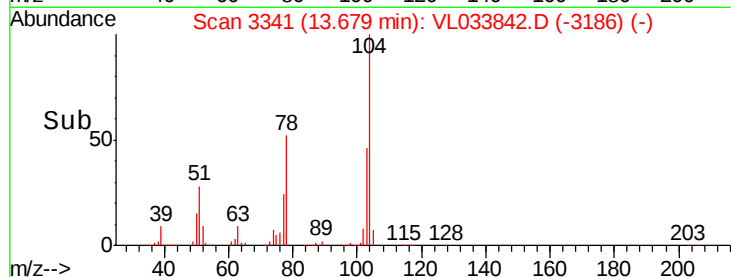
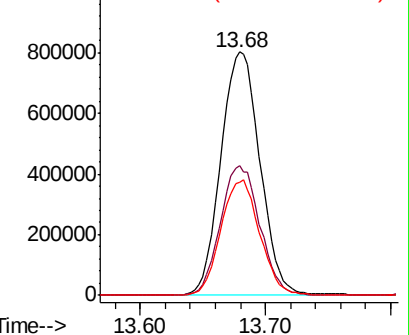
103 47.3 37.8 56.6



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: 8.828 ppbv

RT: 14.82 min Scan# 3696

Delta R.T. -0.00 min

Lab File: VL033842.D

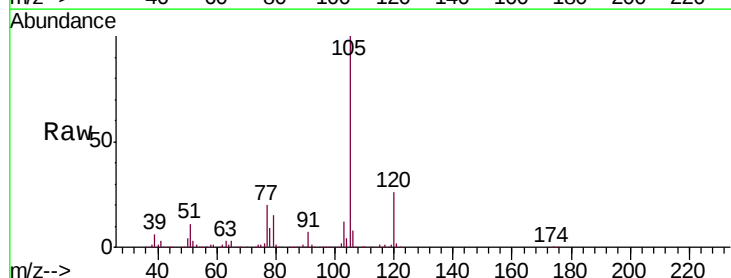
Acq: 29 May 2019 18:50

Tgt Ion:105 Resp: 3159037

Ion Ratio Lower Upper

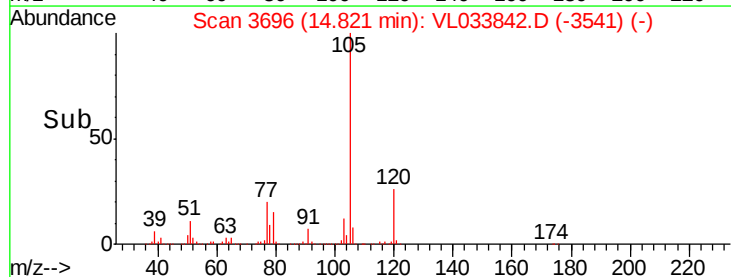
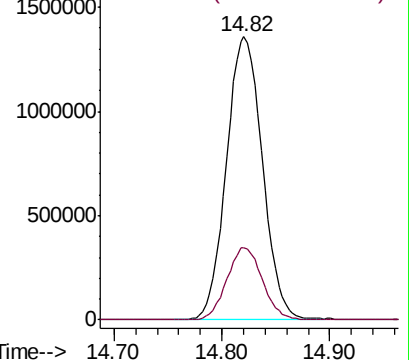
105 100

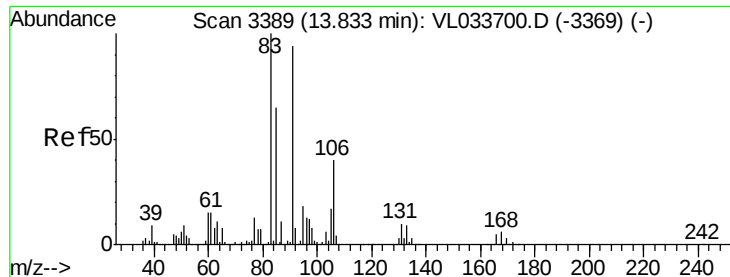
120 25.3 20.1 30.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

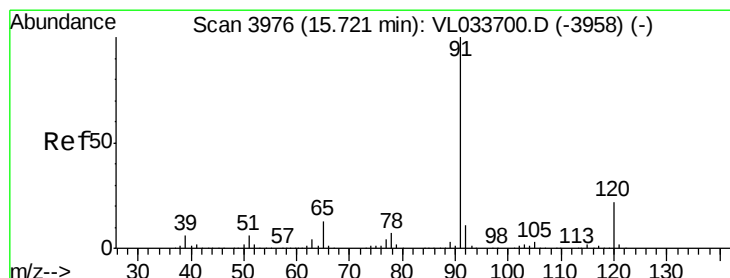
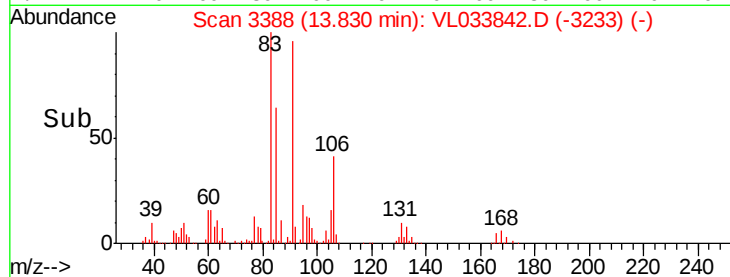
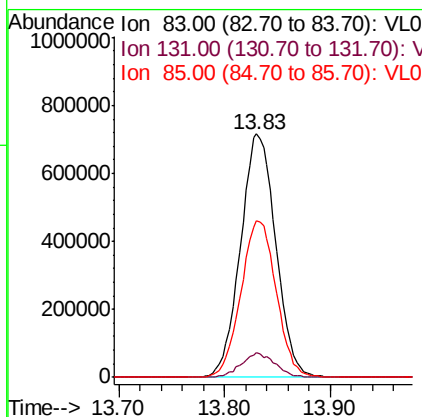
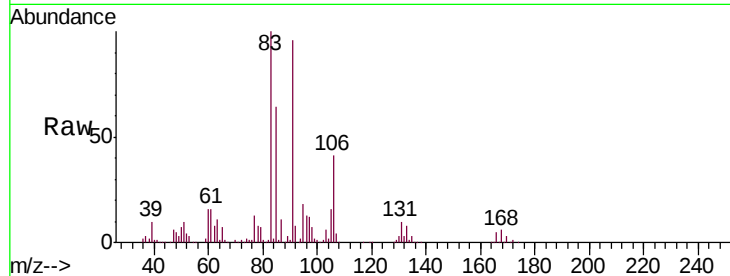




#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.615 ppbv
 RT: 13.83 min Scan# 3388
 Delta R.T. -0.00 min
 Lab File: VL033842.D
 Acq: 29 May 2019 18:50

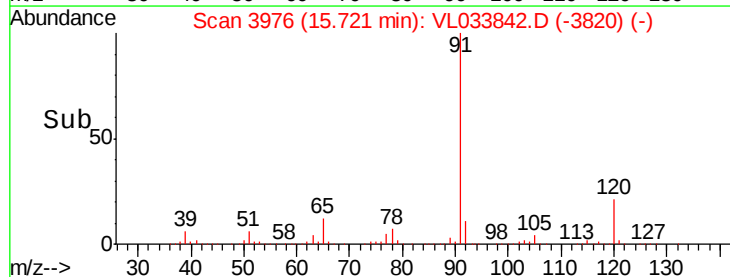
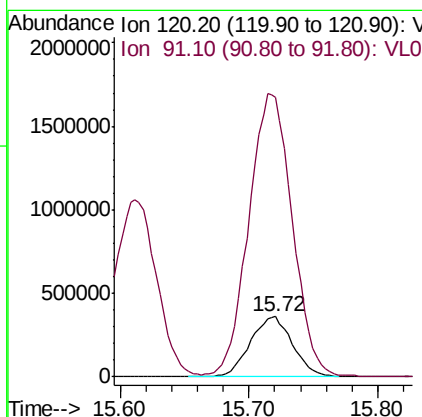
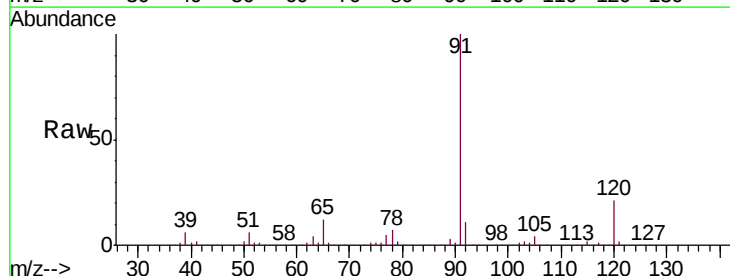
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0529ABS01

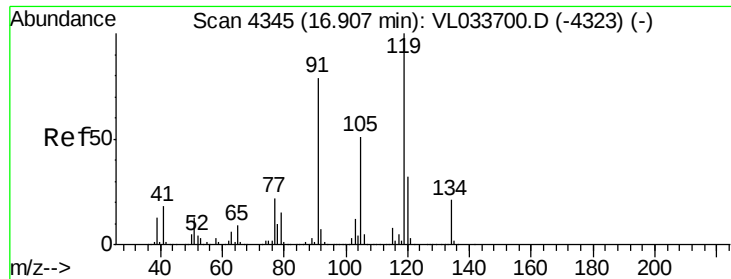
Tgt Ion: 83 Resp: 1664796
 Ion Ratio Lower Upper
 83 100
 131 9.6 4.8 14.3
 85 64.7 32.3 96.9



#64
 n-propylbenzene
 Concen: 8.901 ppbv
 RT: 15.72 min Scan# 3976
 Delta R.T. 0.00 min
 Lab File: VL033842.D
 Acq: 29 May 2019 18:50

Tgt Ion: 120 Resp: 823940
 Ion Ratio Lower Upper
 120 100
 91 484.9 379.1 568.7

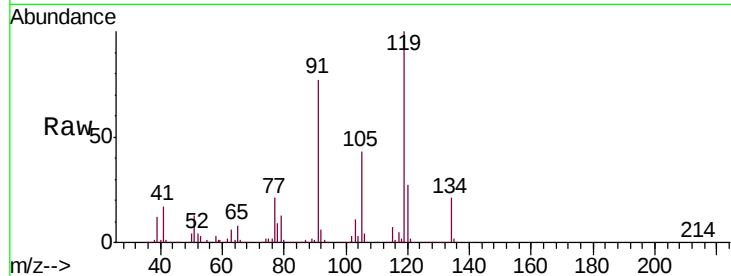




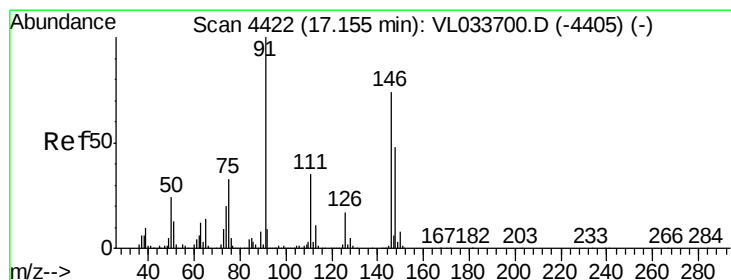
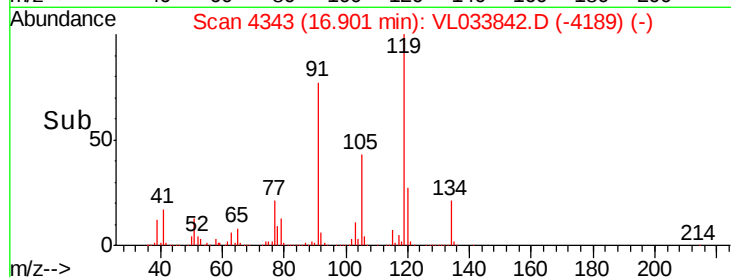
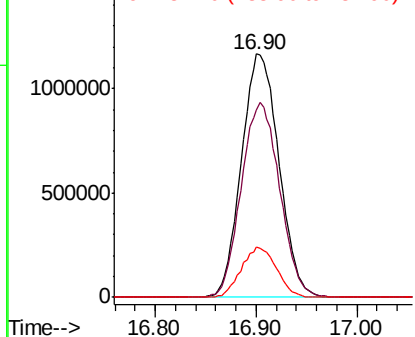
#65
 tert-Butylbenzene
 Concen: 9.190 ppbv
 RT: 16.90 min Scan# 4343
 Delta R.T. -0.01 min
 Lab File: VL033842.D
 Acq: 29 May 2019 18:50

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0529ABS01

Tgt Ion: 119 Resp: 3002544
 Ion Ratio Lower Upper
 119 100
 91 82.3 65.3 97.9
 134 19.4 15.7 23.5

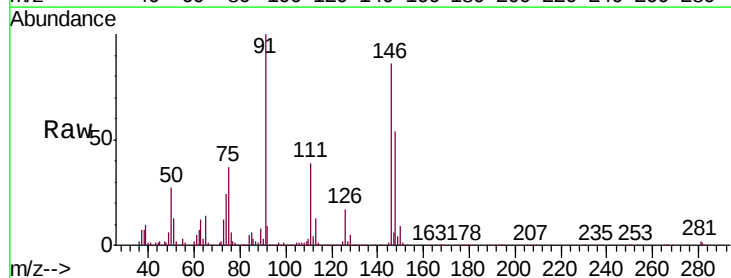


Abundance Ion 119.20 (118.90 to 119.90): V
 Ion 91.10 (90.80 to 91.80): VL0
 Ion 134.20 (133.90 to 134.90): V

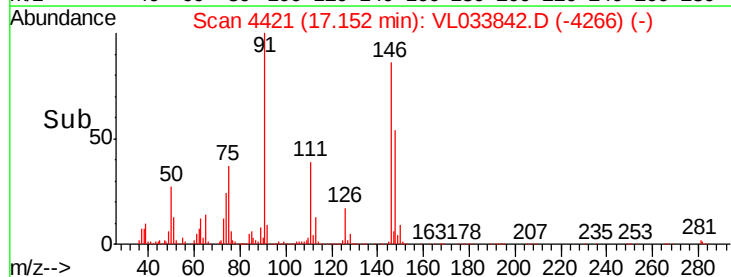
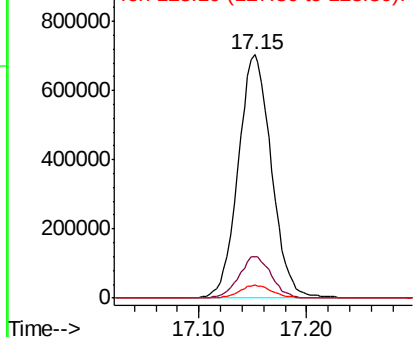


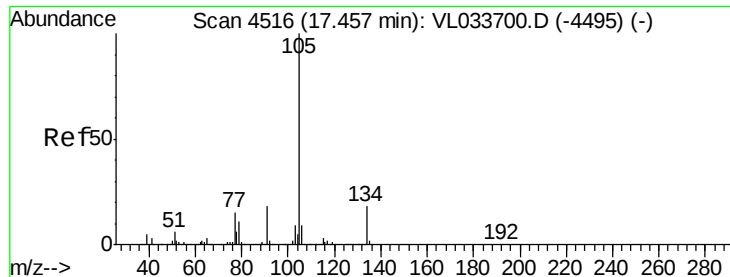
#66
 Benzyl Chloride
 Concen: 9.694 ppbv
 RT: 17.15 min Scan# 4421
 Delta R.T. -0.00 min
 Lab File: VL033842.D
 Acq: 29 May 2019 18:50

Tgt Ion: 91 Resp: 1508507
 Ion Ratio Lower Upper
 91 100
 126 16.6 13.5 20.3
 128 5.3 4.3 6.5



Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 126.10 (125.80 to 126.80): V
 Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 9.192 ppbv

RT: 17.45 min Scan# 4515

Delta R.T. -0.00 min

Lab File: VL033842.D

Acq: 29 May 2019 18:50

Instrument :

MSVOA_L

ClientSampleId :

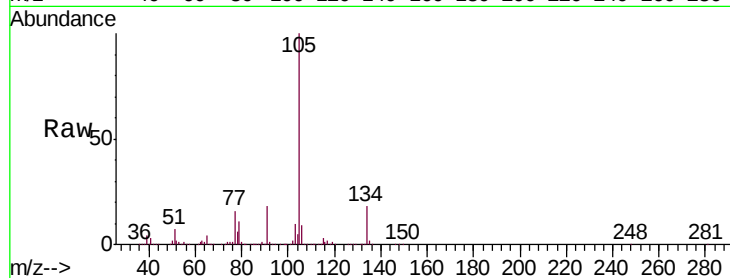
VL0529ABS01

Tgt Ion:105 Resp: 4203409

Ion Ratio Lower Upper

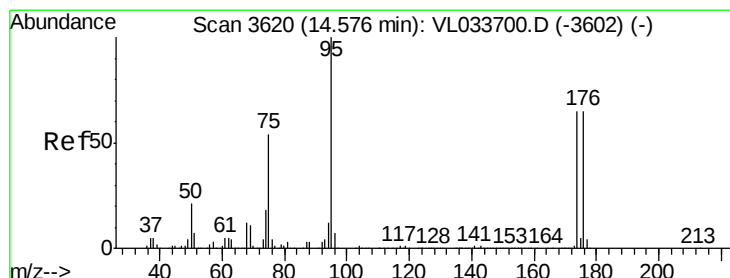
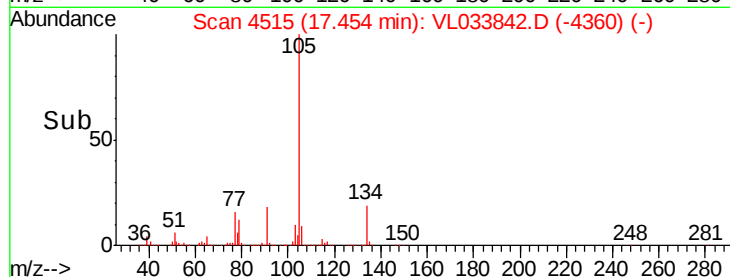
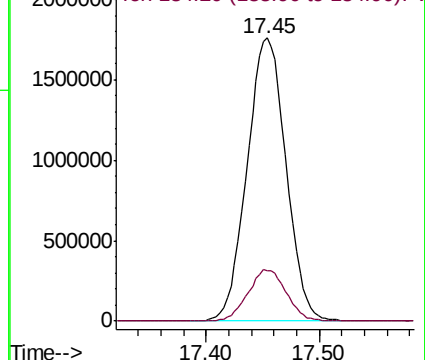
105 100

134 18.0 14.6 22.0



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: 8.120 ppbv

RT: 14.57 min Scan# 3619

Delta R.T. -0.00 min

Lab File: VL033842.D

Acq: 29 May 2019 18:50

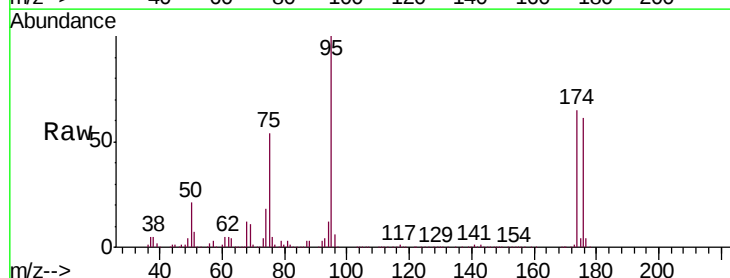
Tgt Ion: 95 Resp: 1498883

Ion Ratio Lower Upper

95 100

174 66.7 53.9 80.9

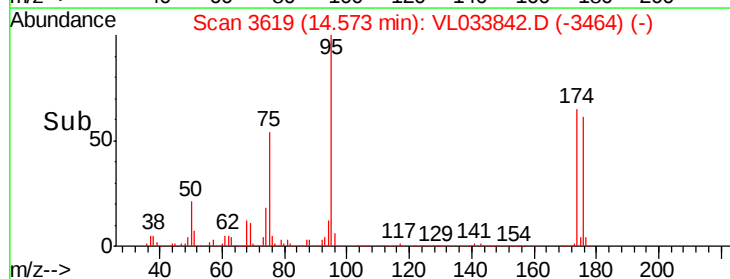
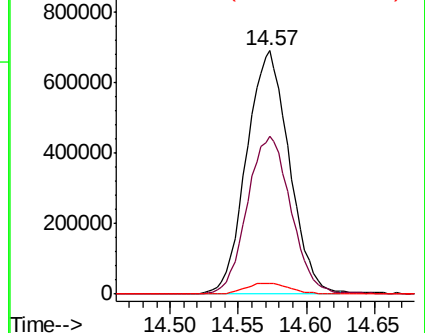
175 4.8 3.8 5.8

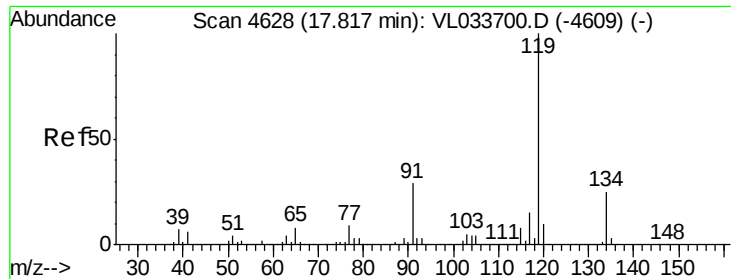


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

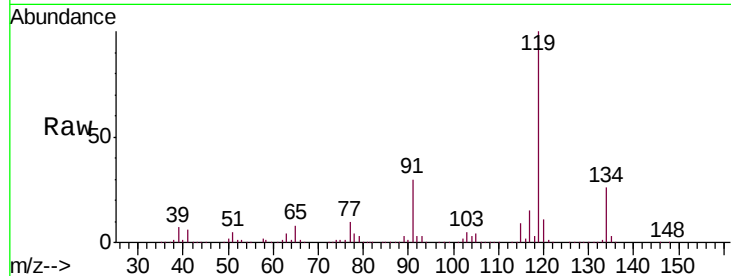




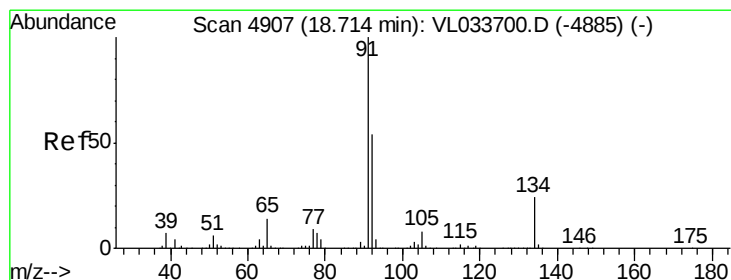
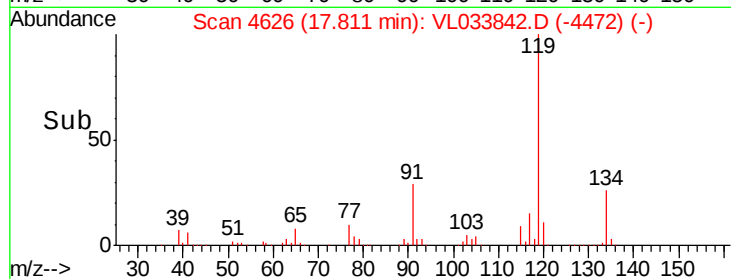
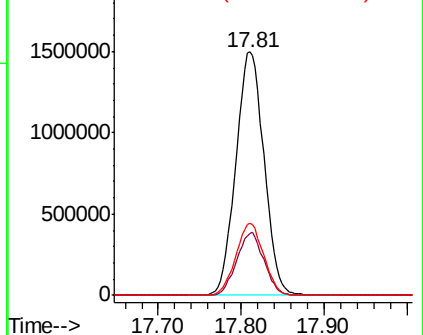
#69
 p-Isopropyltoluene
 Concen: 9.346 ppbv
 RT: 17.81 min Scan# 4626
 Delta R.T. -0.01 min
 Lab File: VL033842.D
 Acq: 29 May 2019 18:50

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0529ABS01

Tgt Ion: 119 Resp: 3532399
 Ion Ratio Lower Upper
 119 100
 134 25.1 20.3 30.5
 91 29.5 23.1 34.7

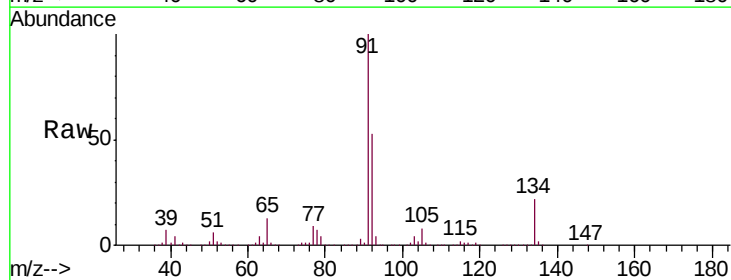


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

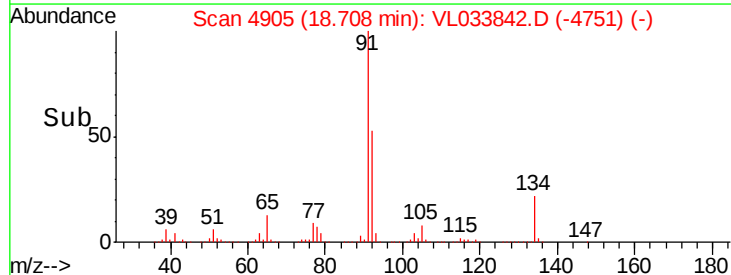
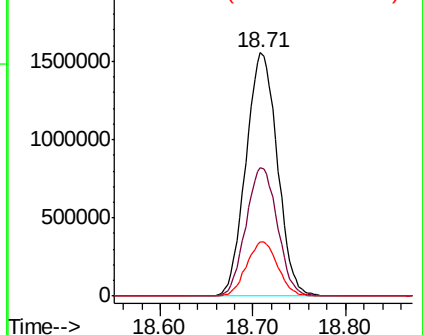


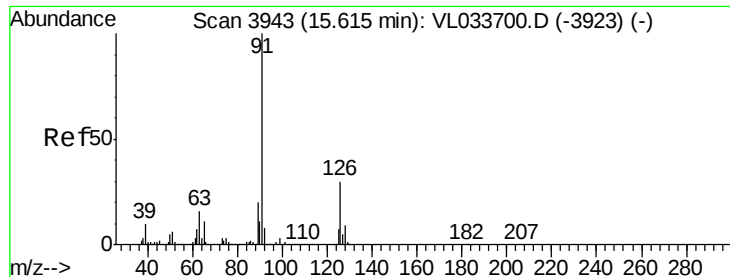
#70
 n-Butylbenzene
 Concen: 9.055 ppbv
 RT: 18.71 min Scan# 4905
 Delta R.T. -0.01 min
 Lab File: VL033842.D
 Acq: 29 May 2019 18:50

Tgt Ion: 91 Resp: 3670150
 Ion Ratio Lower Upper
 91 100
 92 52.9 42.6 63.8
 134 22.0 18.1 27.1



Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 92.10 (91.80 to 92.80): VL0
 Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 9.122 ppbv

RT: 15.61 min Scan# 3942

Delta R.T. -0.00 min

Lab File: VL033842.D

Acq: 29 May 2019 18:50

Instrument :

MSVOA_L

ClientSampleId :

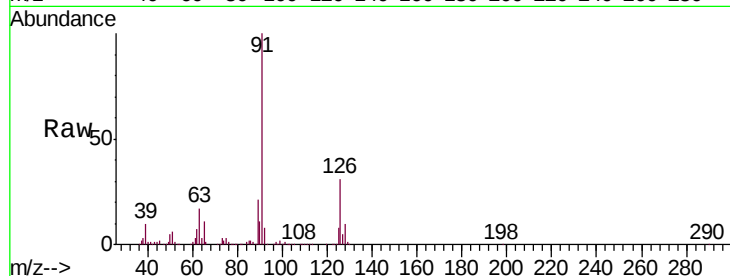
VL0529ABS01

Tgt Ion: 91 Resp: 2421837

Ion Ratio Lower Upper

91 100

126 29.8 12.0 47.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

2000000 Ion 126.10 (125.80 to 126.80): V

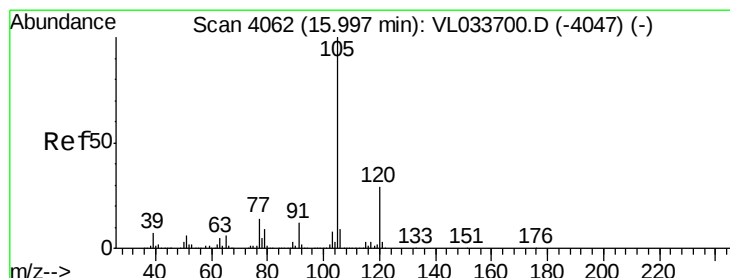
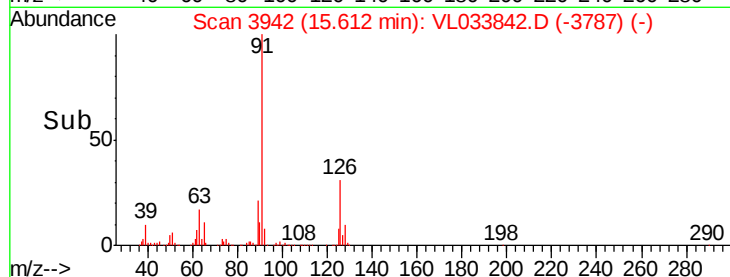
1500000

1000000

500000

0

Time--> 15.50 15.60 15.70



#72

4-Ethyltoluene

Concen: 9.525 ppbv

RT: 16.00 min Scan# 4062

Delta R.T. 0.00 min

Lab File: VL033842.D

Acq: 29 May 2019 18:50

Tgt Ion: 105 Resp: 2893925

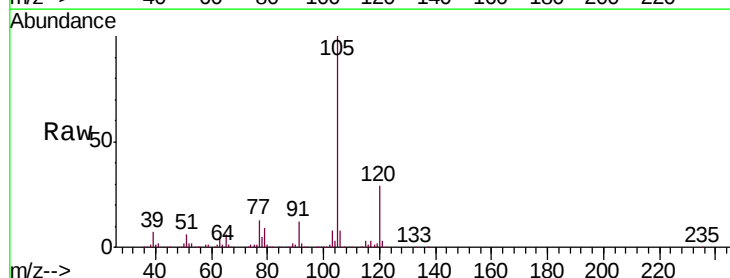
Ion Ratio Lower Upper

105 100

120 29.0 23.1 34.7

91 13.1 10.4 15.6

77 14.0 11.0 16.6



Abundance Ion 105.10 (104.80 to 105.80): V

2000000 Ion 120.20 (119.90 to 120.90): V

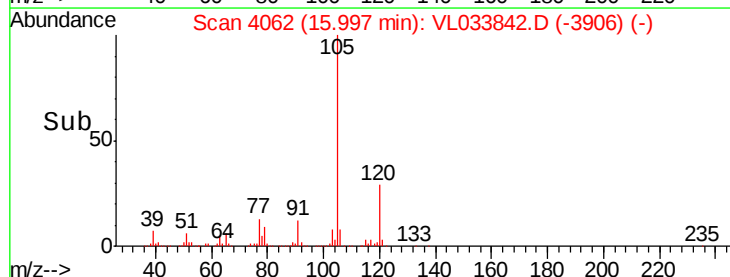
1500000 Ion 91.10 (90.80 to 91.80): VL0

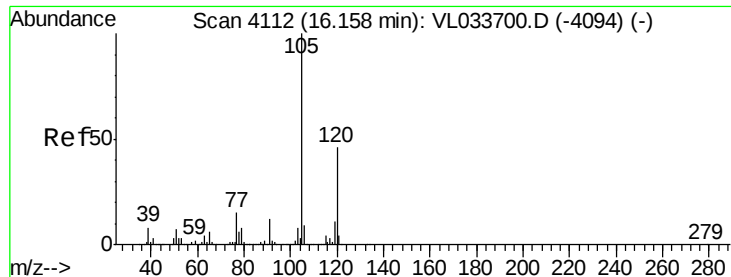
1000000 Ion 77.10 (76.80 to 77.80): VL0

500000

0

Time--> 15.90 16.00





#73

1,3,5-Trimethylbenzene

Concen: 9.316 ppbv

RT: 16.15 min Scan# 4110

Delta R.T. -0.01 min

Lab File: VL033842.D

Acq: 29 May 2019 18:50

Instrument :

MSVOA_L

ClientSampleId :

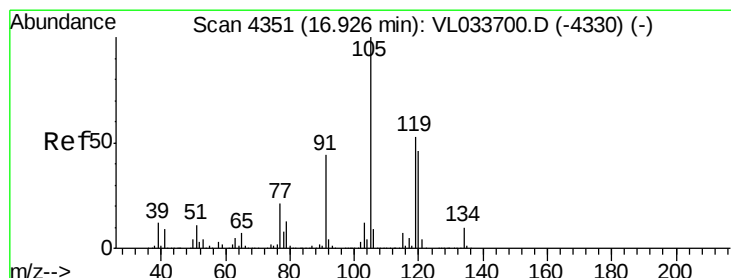
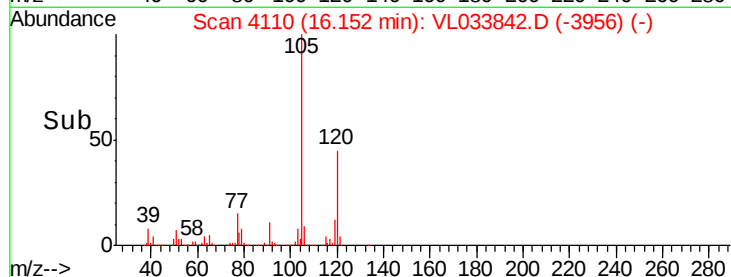
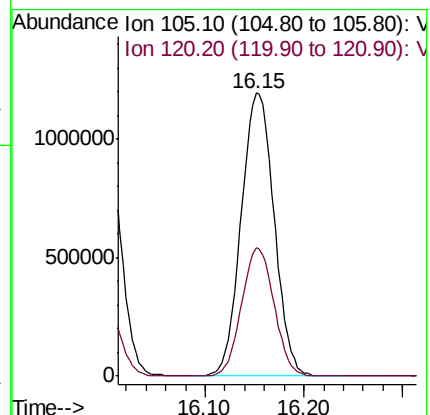
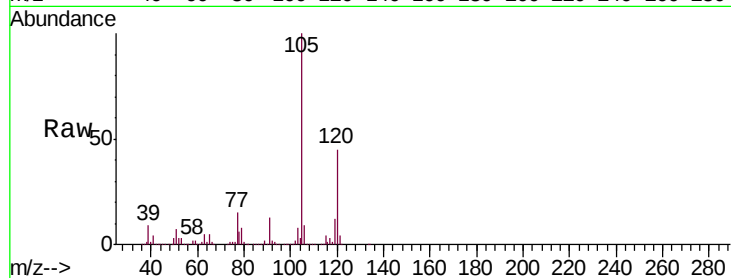
VL0529ABS01

Tgt Ion:105 Resp: 2761532

Ion Ratio Lower Upper

105 100

120 45.3 37.0 55.4



#74

1,2,4-Trimethylbenzene

Concen: 8.929 ppbv

RT: 16.92 min Scan# 4350

Delta R.T. -0.00 min

Lab File: VL033842.D

Acq: 29 May 2019 18:50

Tgt Ion:105 Resp: 2880633

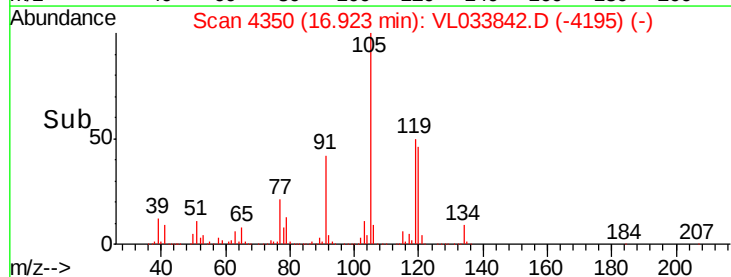
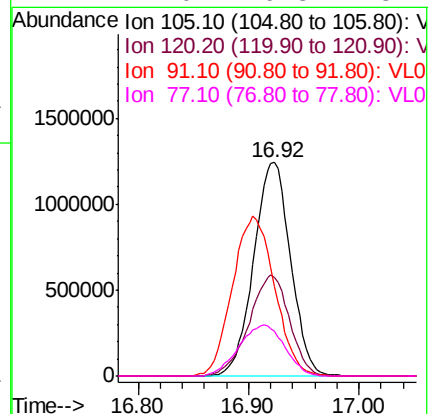
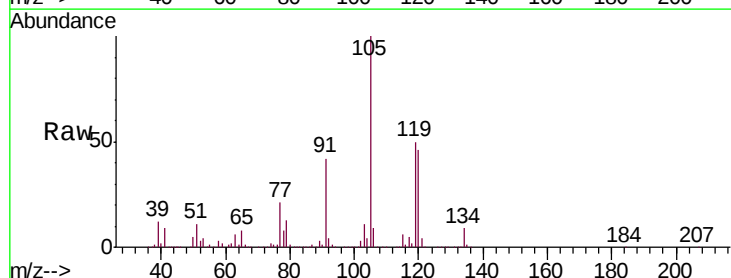
Ion Ratio Lower Upper

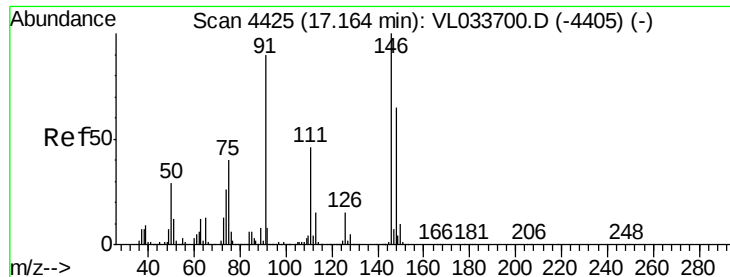
105 100

120 46.3 36.8 55.2

91 42.0 35.4 53.0

77 21.0 16.8 25.2

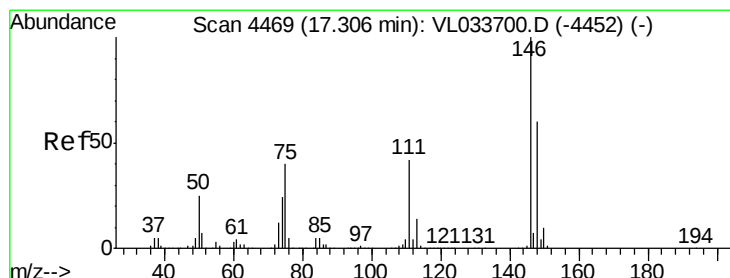
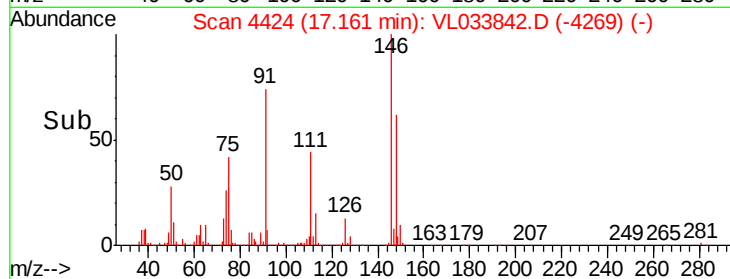
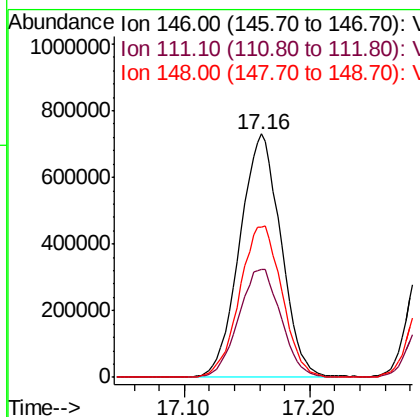
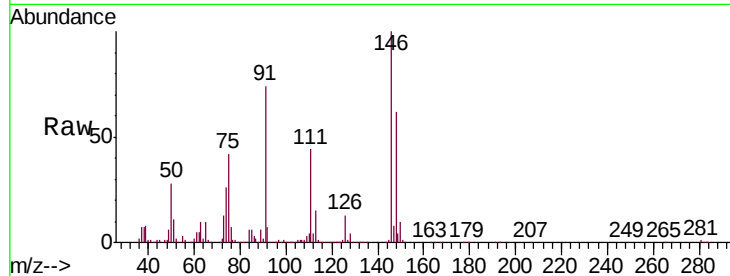




#75
 1,3-Dichlorobenzene
 Concen: 8.427 ppbv
 RT: 17.16 min Scan# 4424
 Delta R.T. -0.00 min
 Lab File: VL033842.D
 Acq: 29 May 2019 18:50

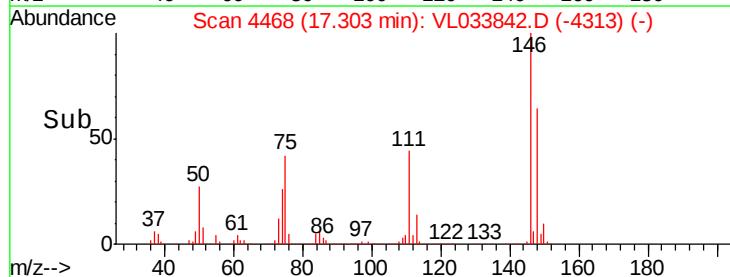
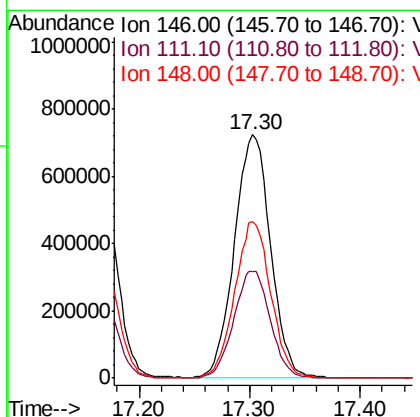
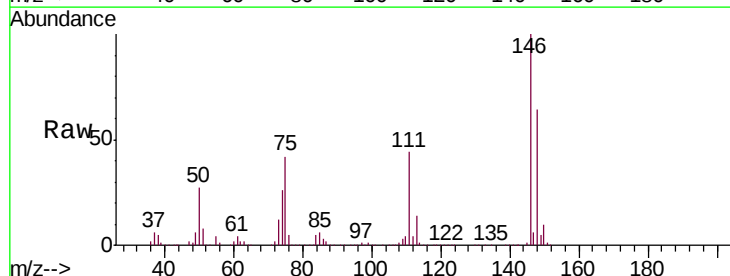
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0529ABS01

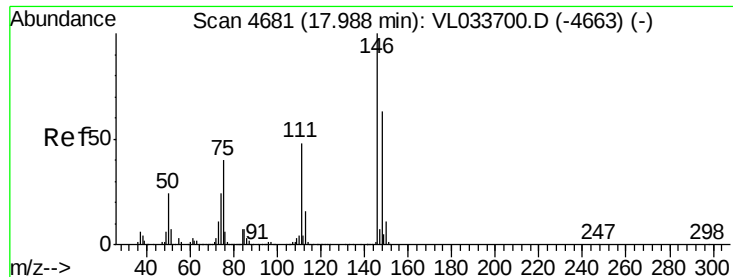
Tgt Ion:146 Resp: 1665967
 Ion Ratio Lower Upper
 146 100
 111 45.8 22.9 68.8
 148 64.2 32.0 96.2



#76
 1,4-Dichlorobenzene
 Concen: 8.726 ppbv
 RT: 17.30 min Scan# 4468
 Delta R.T. -0.00 min
 Lab File: VL033842.D
 Acq: 29 May 2019 18:50

Tgt Ion:146 Resp: 1639511
 Ion Ratio Lower Upper
 146 100
 111 44.7 21.9 65.8
 148 64.3 32.1 96.3





#77

1,2-Dichlorobenzene

Concen: 8.704 ppbv

RT: 17.98 min Scan# 4679

Delta R.T. -0.01 min

Lab File: VL033842.D

Acq: 29 May 2019 18:50

Instrument :

MSVOA_L

ClientSampleId :

VL0529ABS01

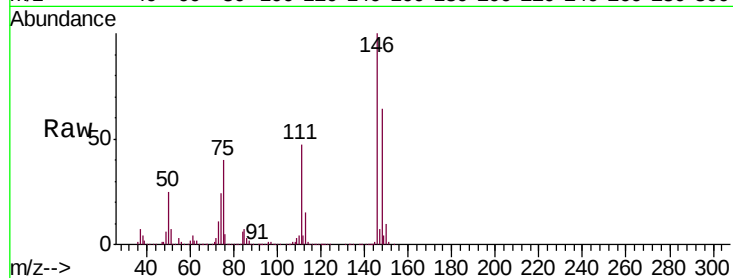
Tgt Ion:146 Resp: 1616818

Ion Ratio Lower Upper

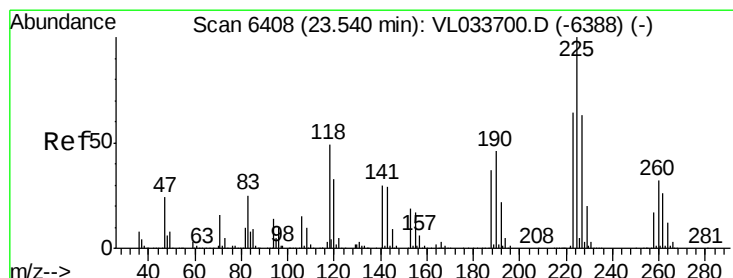
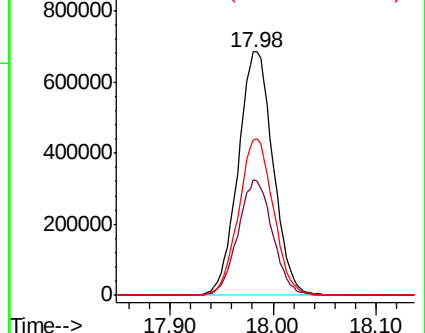
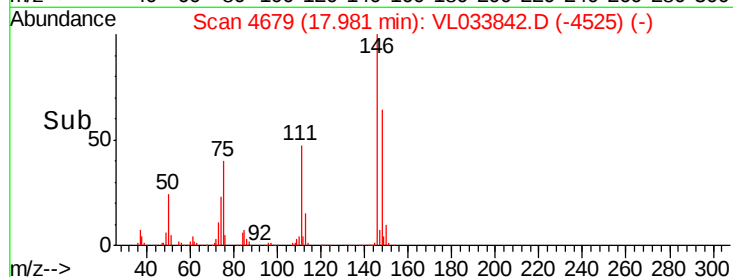
146 100

111 46.9 23.5 70.5

148 63.9 32.1 96.3



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 6.619 ppbv

RT: 23.54 min Scan# 6407

Delta R.T. -0.00 min

Lab File: VL033842.D

Acq: 29 May 2019 18:50

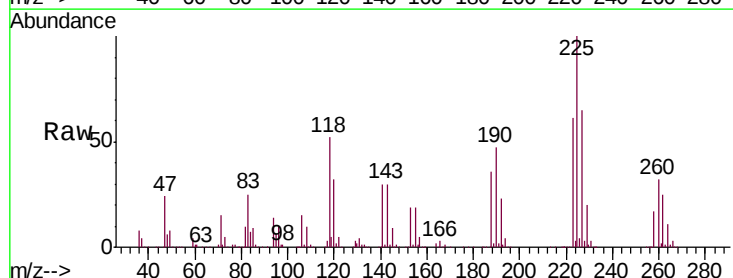
Tgt Ion:225 Resp: 929650

Ion Ratio Lower Upper

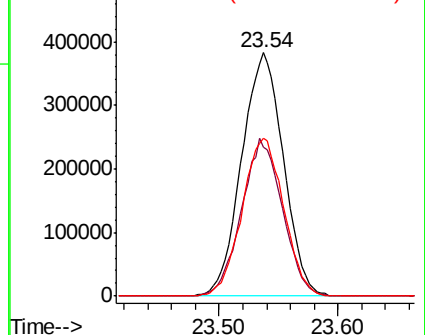
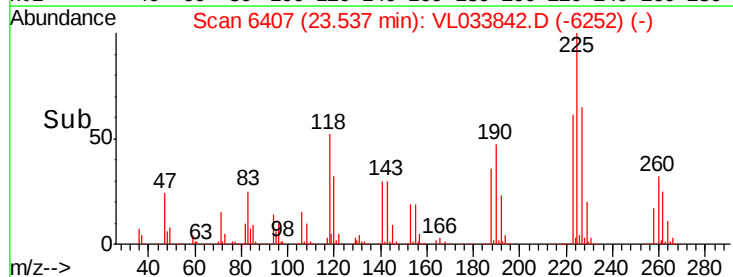
225 100

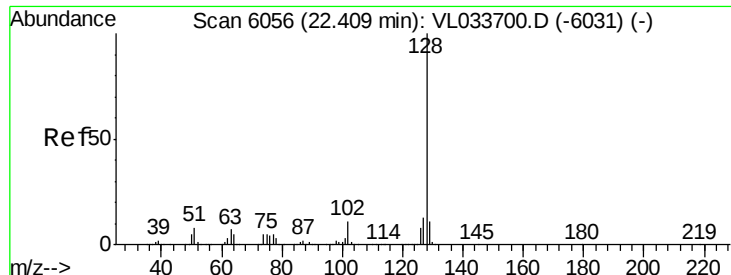
223 63.1 50.2 75.4

227 64.7 50.7 76.1



Abundance Ion 224.90 (224.60 to 225.60): V
Ion 222.90 (222.60 to 223.60): V
Ion 226.90 (226.60 to 227.60): V

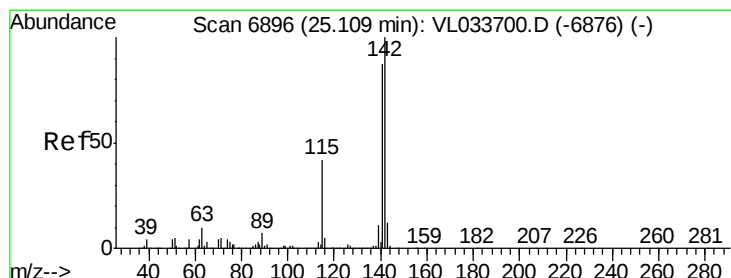
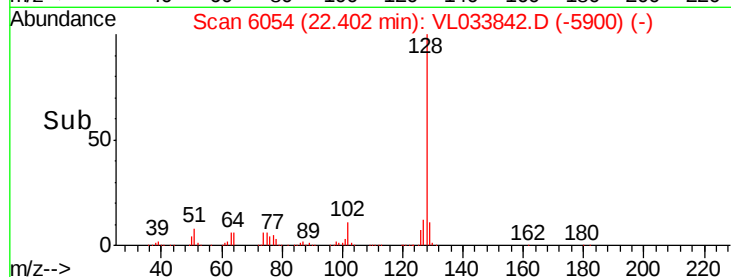
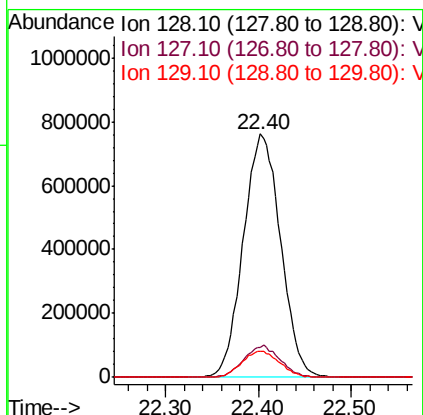
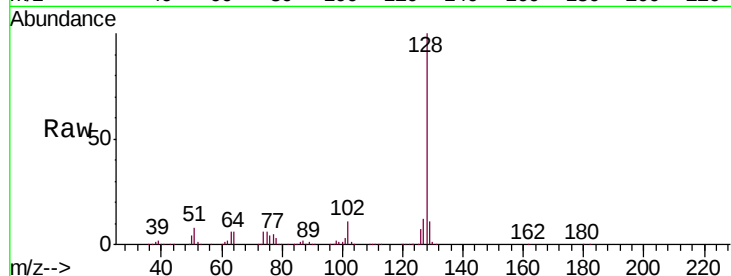




#79
Naphthalene
Concen: 7.098 ppbv
RT: 22.40 min Scan# 6054
Delta R.T. -0.01 min
Lab File: VL033842.D
Acq: 29 May 2019 18:50

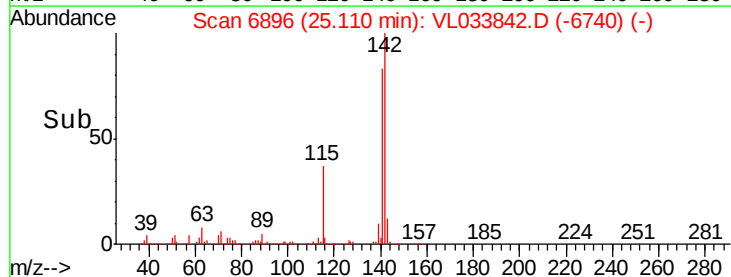
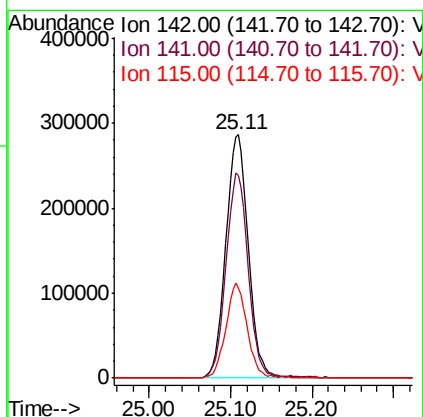
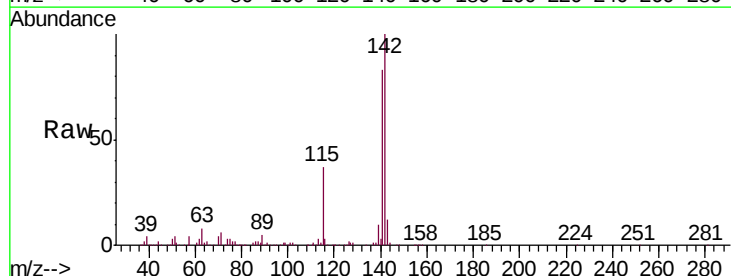
Instrument :
MSVOA_L
ClientSampleId :
VL0529ABS01

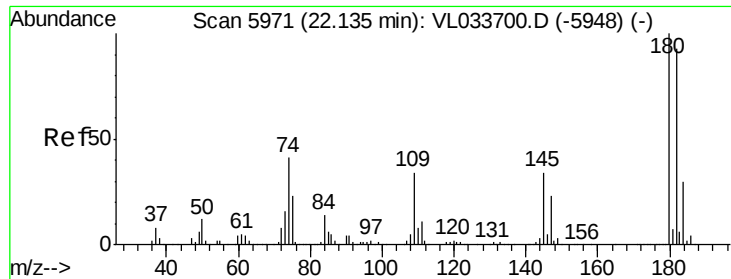
Tgt Ion:128 Resp: 2126975
Ion Ratio Lower Upper
128 100
127 12.0 10.6 16.0
129 10.5 8.9 13.3



#80
Naphthalene, 2-methyl-
Concen: 4.940 ppbv
RT: 25.11 min Scan# 6896
Delta R.T. 0.00 min
Lab File: VL033842.D
Acq: 29 May 2019 18:50

Tgt Ion:142 Resp: 562396
Ion Ratio Lower Upper
142 100
141 83.8 67.2 100.8
115 36.9 34.1 51.1





#81

1,2,4-Trichlorobenzene

Concen: 7.148 ppbv

RT: 22.13 min Scan# 5969

Delta R.T. -0.01 min

Lab File: VL033842.D

Acq: 29 May 2019 18:50

Instrument :

MSVOA_L

ClientSampleId :

VL0529ABS01

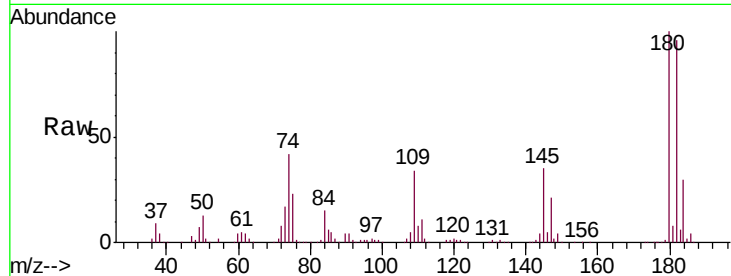
Tgt Ion:180 Resp: 1254188

Ion Ratio Lower Upper

180 100

182 95.3 76.1 114.1

184 30.4 24.6 37.0



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

