

Data File : VL032353.D
Acq On : 15 Aug 2018 13:15
Operator : SY/AP
Sample : VSTDIC0.03
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

Quant Time: Aug 15 14:29:00 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081518AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 15 11:44:08 2018
QLast Update : Wed Aug 15 11:44:08 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.82	49	2243497	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.35	114	4781457	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.30	117	4537005	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.64	95	3499944	9.94	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.26	85	7632	0.028	ppbv	96
3) Chlorodifluoromethane	3.05	51	8184	0.036	ppbv #	86
4) Chloromethane	3.20	50	2165	0.016	ppbv	100
5) Vinyl Chloride	3.34	62	3943	0.032	ppbv #	70
6) Bromomethane	3.56	94	423	0.006	ppbv #	15
7) Chloroethane	3.64	64	703	0.016	ppbv #	43
8) Dichlorotetrafluoroethane	3.26	85	7632	0.028	ppbv	92
9) Propene	3.07	41	2334	0.023	ppbv #	16
10) Heptane	8.31	43	1856	0.005	ppbv #	1
11) Trichlorofluoromethane	4.05	101	5203	0.020	ppbv	92
12) 1,1,2-Trichlorotrifluoroet	4.47	101	316	0.002	ppbv	92
13) Ethanol	3.68	45	102	0.004	ppbv #	1
14) Bromoethene	3.83	108	2015	0.026	ppbv #	68
15) Acetone	3.97	43	37179	0.176	ppbv	92
16) 1,3-Butadiene	3.40	39	3229	0.029	ppbv #	3
17) tert-Butyl alcohol	4.46	59	3787	0.056	ppbv	96
18) 1,1-Dichloroethene	4.40	96	1189	0.015	ppbv	79
19) Isopropyl Alcohol	4.07	45	41	0.000	ppbv #	95
20) Methylene Chloride	4.46	84	5327	0.063	ppbv #	88
21) Allyl Chloride	4.53	41	2556	0.018	ppbv #	8
22) trans-1,2-Dichloroethene	5.01	96	1434	0.018	ppbv #	70
23) Vinyl Acetate	5.22	43	5846	0.015	ppbv #	79
24) 1,1-Dichloroethane	5.14	63	3989	0.015	ppbv #	87
25) Ethyl Acetate	5.79	43	155	0.000	ppbv #	1
26) Hexane	5.84	57	4349	0.020	ppbv #	1
27) Carbon Disulfide	4.67	76	2716	0.014	ppbv #	65
28) Methyl tert-Butyl Ether	5.17	73	268	0.001	ppbv #	51
29) Chloroform	5.89	83	3338	0.011	ppbv	98
30) Cyclohexane	7.31	84	516	0.003	ppbv #	1
31) cis-1,2-Dichloroethene	5.69	61	3295	0.017	ppbv	93
32) 1,1,1-Trichloroethane	6.68	97	4928	0.018	ppbv #	16
34) 2-Butanone	5.38	43	361	0.001	ppbv #	54
35) Carbon Tetrachloride	7.19	117	2774	0.010	ppbv #	28
36) Benzene	7.07	78	10799	0.026	ppbv	95
37) 1,2-Dichloroethane	6.47	62	5218	0.021	ppbv #	87
38) Trichloroethene	8.02	130	2575	0.016	ppbv #	50
39) 1,2-Dichloropropane	7.35	63	1314346	6.199	ppbv #	27
40) 1,4-Dioxane	8.01	88	125	0.002	ppbv #	1
41) Tetrahydrofuran	6.22	42	469	0.003	ppbv #	40
42) Bromodichloromethane	7.97	83	4837	0.012	ppbv #	78
43) Methyl Methacrylate	8.19	69	579	0.003	ppbv #	1

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 15 11:44:08 2018

QLast Update : Wed Aug 15 11:44:08 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.05	57	5698	0.006	ppbv #	1
45) t-1,3-Dichloropropene	9.47	75	1091	0.005	ppbv	94
46) cis-1,3-Dichloropropene	8.90	75	2759	0.010	ppbv #	70
47) 1,1,2-Trichloroethane	9.67	97	1657	0.008	ppbv #	84
48) Dibromochloromethane	10.78	129	229	0.001	ppbv	88
49) Bromoform	13.26	173	2723	0.011	ppbv #	42
50) 4-Methyl-2-Pentanone	8.93	43	158	0.000	ppbv #	39
51) 2-Hexanone	10.33	43	249	0.001	ppbv #	75
52) Tetrachloroethene	11.42	164	655	0.005	ppbv #	16
53) Toluene	10.00	91	2040	0.004	ppbv #	20
54) 1,2-Dibromoethane	10.82	107	2253	0.008	ppbv	88
56) 1,1,1,2-Tetrachloroethane	12.34	131	1582	0.008	ppbv #	9
57) Chlorobenzene	12.38	112	3245	0.009	ppbv #	56
58) Ethyl Benzene	12.94	91	888	0.002	ppbv	96
59) m/p-Xylene	13.22	91	5435	0.011	ppbv #	31
60) o-Xylene	13.93	91	2031	0.004	ppbv #	1
61) Styrene	13.76	104	1725	0.005	ppbv #	1
62) Isopropylbenzene	14.88	105	2590	0.004	ppbv #	50
63) 1,1,2,2-Tetrachloroethane	13.91	83	4380	0.011	ppbv #	1
64) n-propylbenzene	15.78	120	837	0.005	ppbv #	1
65) tert-Butylbenzene	16.96	119	2821	0.005	ppbv #	17
66) Benzyl Chloride	17.22	91	3092	0.009	ppbv #	66
67) sec-Butylbenzene	17.52	105	6309	0.007	ppbv #	60
69) p-Isopropyltoluene	17.88	119	4519	0.007	ppbv #	47
70) n-Butylbenzene	18.77	91	2414	0.003	ppbv #	32
71) 2-Chlorotoluene	15.68	91	3136	0.006	ppbv #	45
72) 4-Ethyltoluene	16.06	105	3622	0.007	ppbv #	77
73) 1,3,5-Trimethylbenzene	16.22	105	3335	0.006	ppbv	93
74) 1,2,4-Trimethylbenzene	16.99	105	4455	0.008	ppbv #	63
75) 1,3-Dichlorobenzene	17.23	146	2613	0.008	ppbv #	23
76) 1,4-Dichlorobenzene	17.37	146	2441	0.008	ppbv #	23
77) 1,2-Dichlorobenzene	18.04	146	1260	0.004	ppbv #	1
78) Hexachloro-1,3-Butadiene	23.57	225	469	0.004	ppbv #	18
79) Naphthalene	22.48	128	1166	0.002	ppbv #	1
80) Naphthalene,2-methyl-	25.15	142	151	0.001	ppbv #	79
81) 1,2,4-Trichlorobenzene	22.20	180	407	0.002	ppbv #	12

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

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VSTDICC0.03

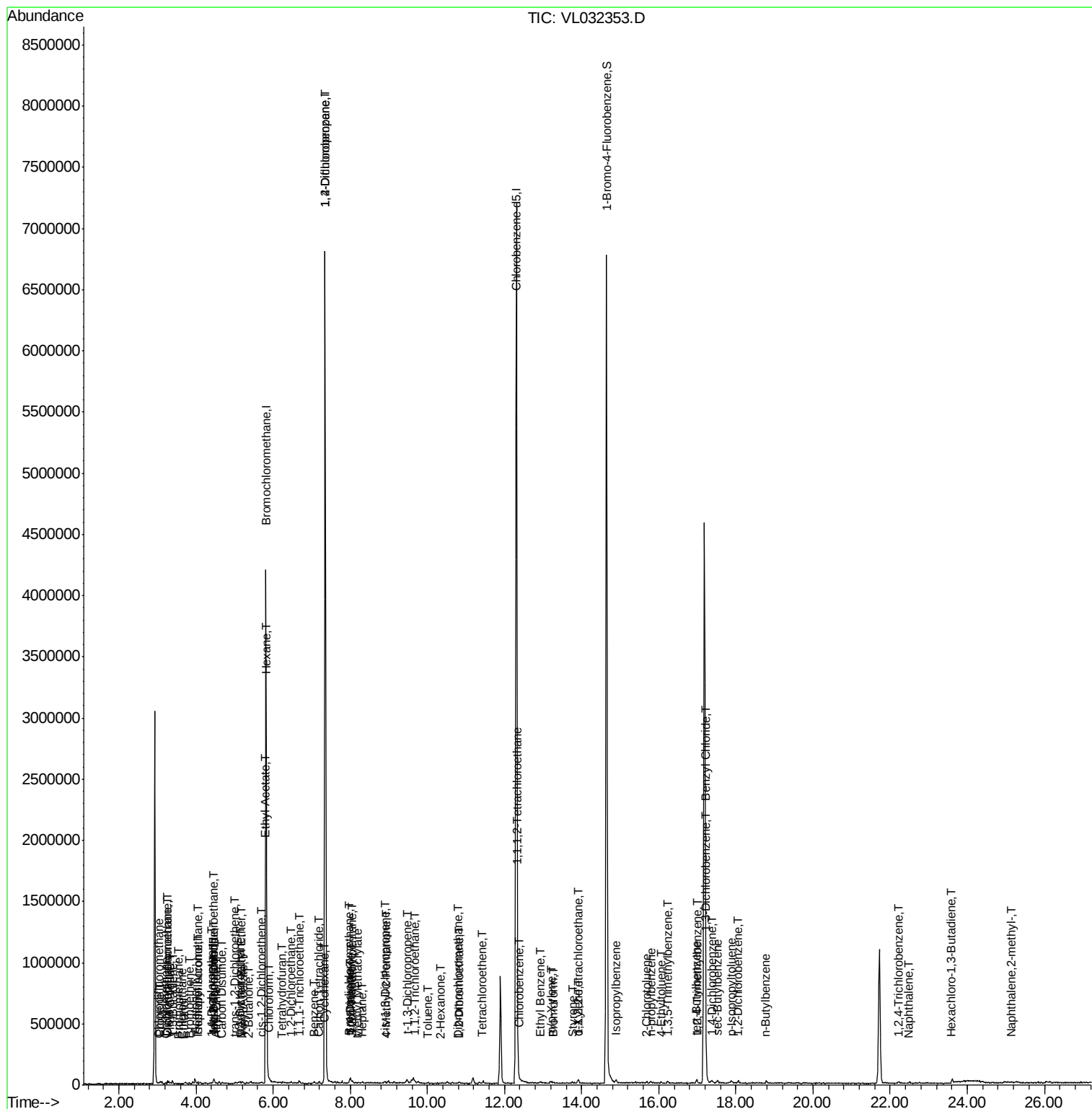
Quant Time: Aug 15 14:29:00 2018

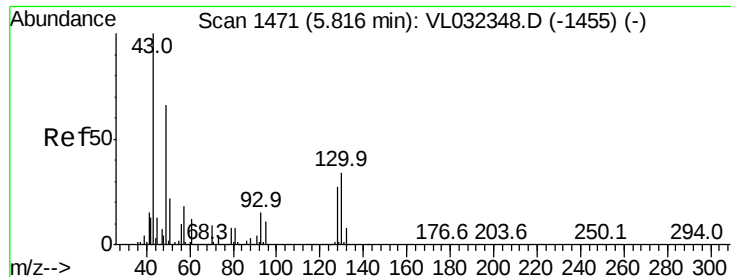
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_L\METHODS\VL081518AIR.M

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.82 min Scan# 1471

Delta R.T. -0.02 min

Lab File: VL032353.D

Acq: 15 Aug 2018 13:15

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

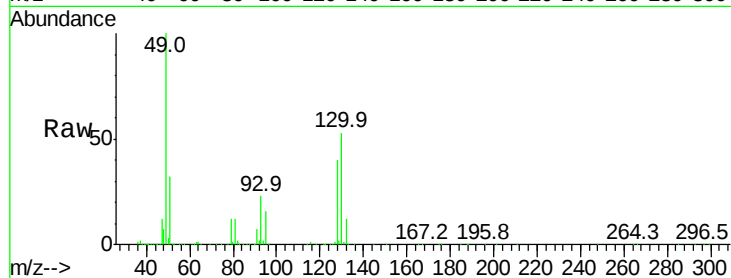
Tgt Ion: 49 Resp: 2243497

Ion Ratio Lower Upper

49 100

128 40.7 20.2 60.6

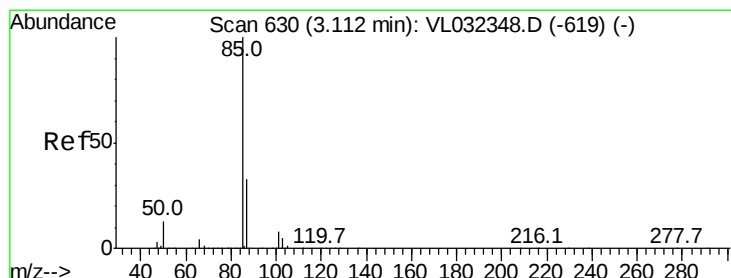
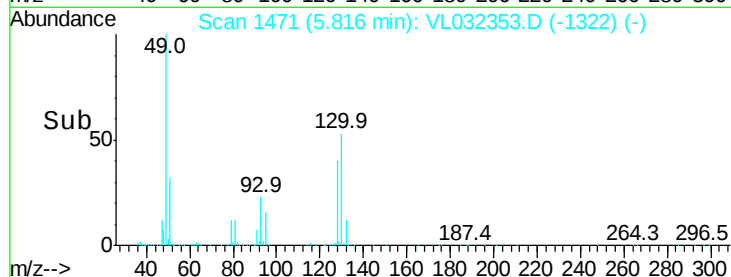
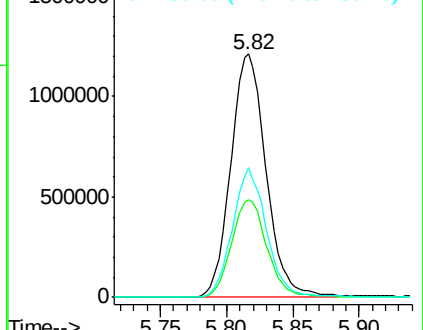
130 52.0 25.8 77.3



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.028 ppbv

RT: 3.26 min Scan# 675

Delta R.T. 0.13 min

Lab File: VL032353.D

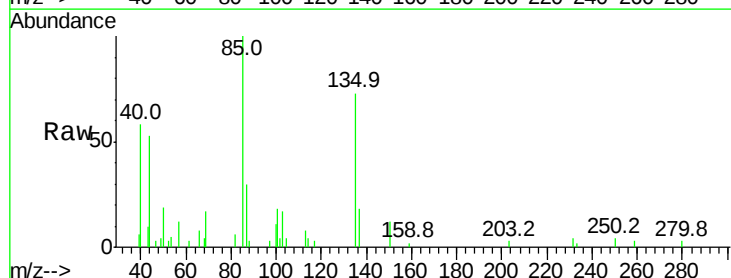
Acq: 15 Aug 2018 13:15

Tgt Ion: 85 Resp: 7632

Ion Ratio Lower Upper

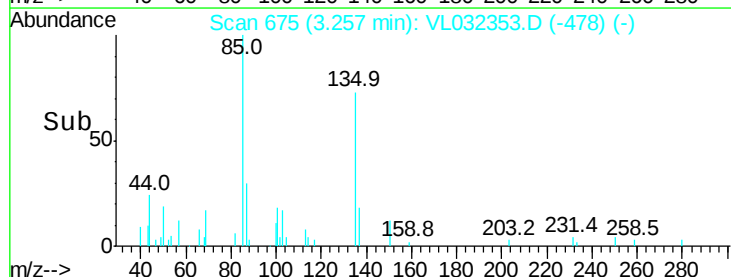
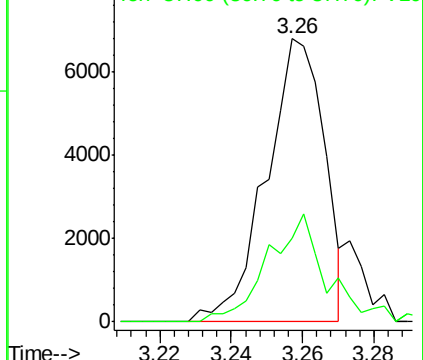
85 100

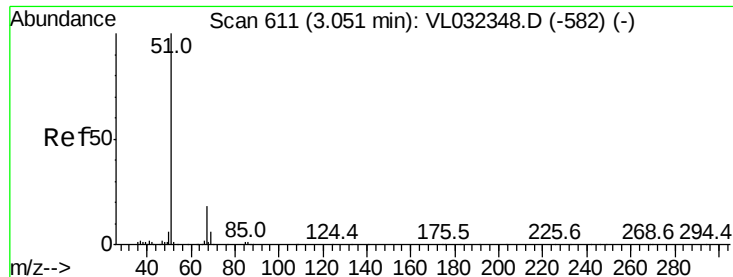
87 29.5 25.2 37.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.036 ppbv

RT: 3.05 min Scan# 611

Delta R.T. -0.01 min

Lab File: VL032353.D

Acq: 15 Aug 2018 13:15

Instrument :

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ClientSampleId :

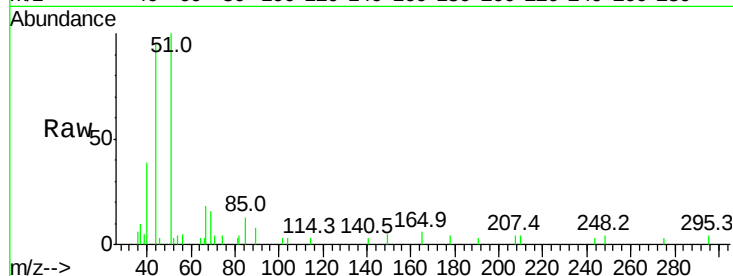
VSTDIC0.03

Tgt Ion: 51 Resp: 8184

Ion Ratio Lower Upper

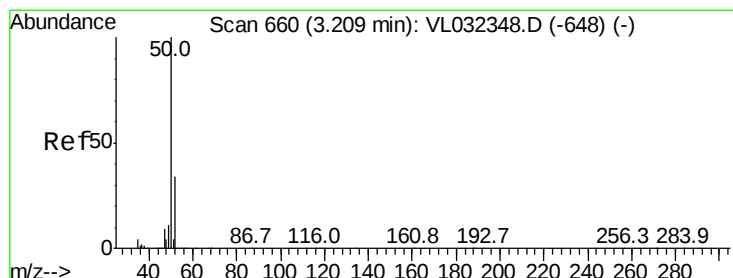
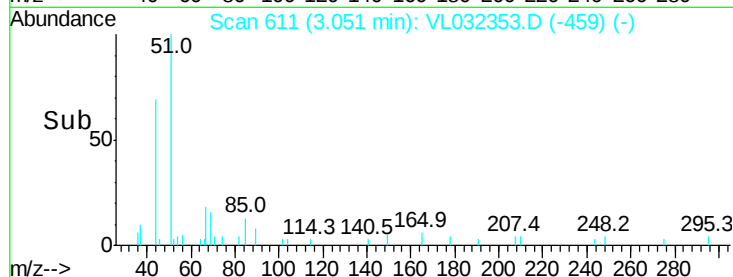
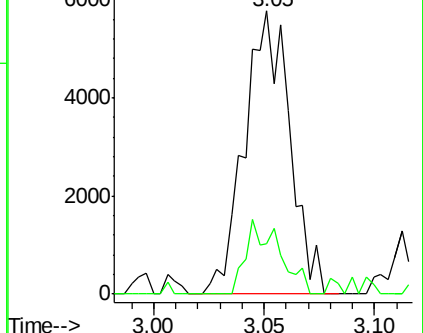
51 100

67 23.0 13.5 20.3#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.016 ppbv

RT: 3.20 min Scan# 658

Delta R.T. -0.02 min

Lab File: VL032353.D

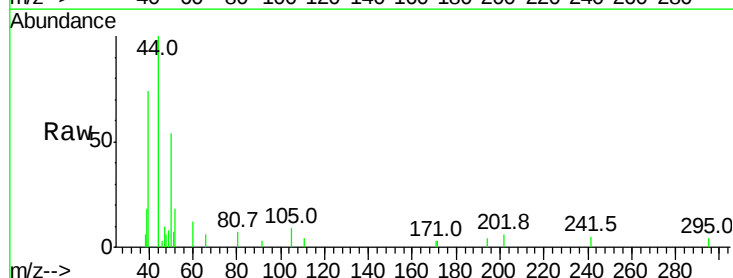
Acq: 15 Aug 2018 13:15

Tgt Ion: 50 Resp: 2165

Ion Ratio Lower Upper

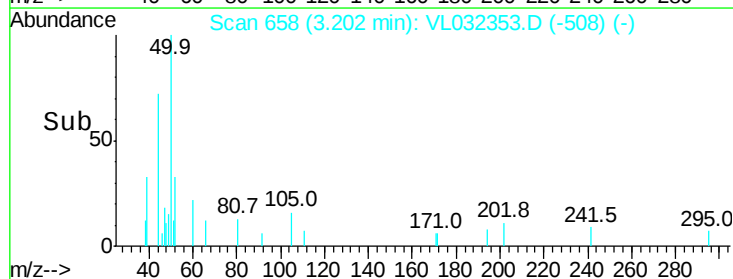
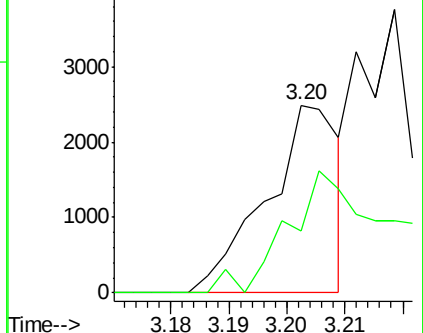
50 100

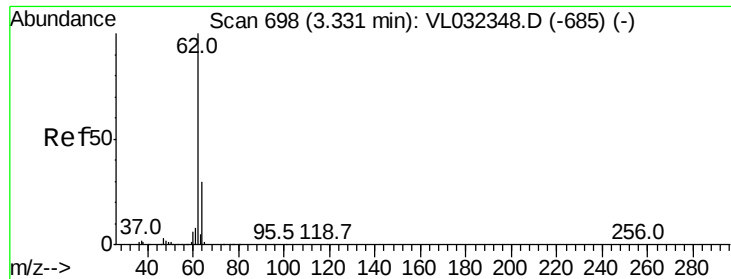
52 33.1 26.2 39.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.032 ppbv

RT: 3.34 min Scan# 700

Delta R.T. -0.00 min

Lab File: VL032353.D

Acq: 15 Aug 2018 13:15

Instrument :

MSVOA_L

ClientSampleId :

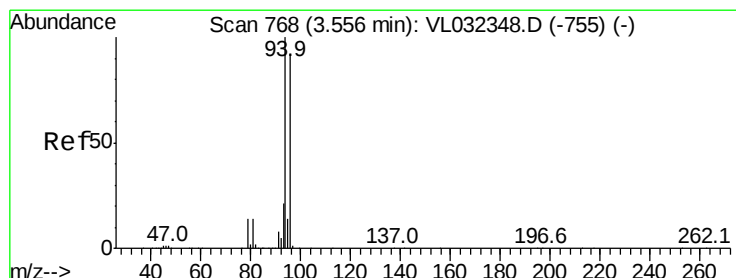
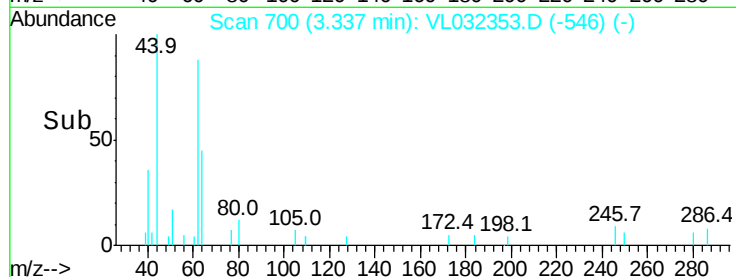
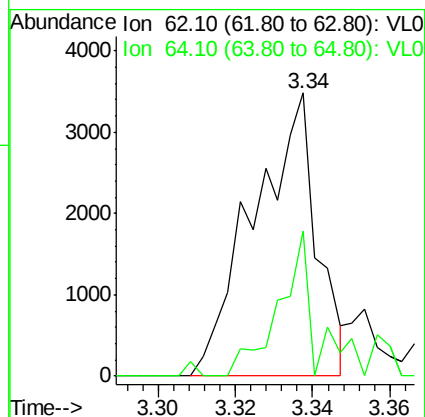
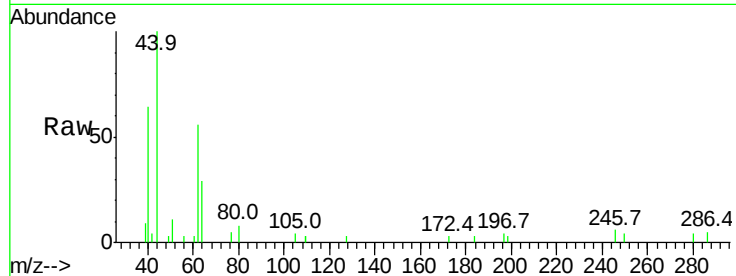
VSTDIC0.03

Tgt Ion: 62 Resp: 3943

Ion Ratio Lower Upper

62 100

64 46.3 24.1 36.1#



#6

Bromomethane

Concen: 0.006 ppbv

RT: 3.56 min Scan# 768

Delta R.T. -0.01 min

Lab File: VL032353.D

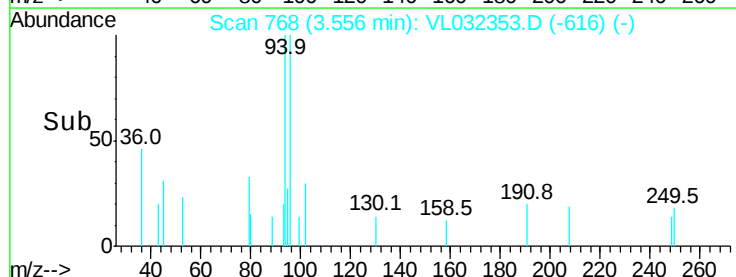
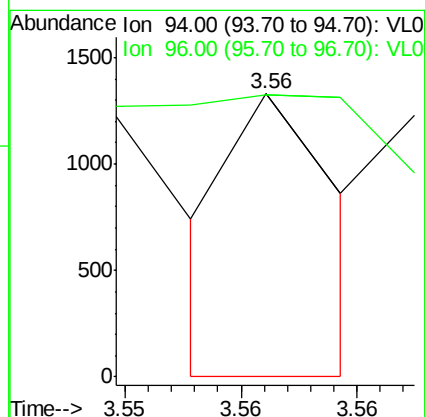
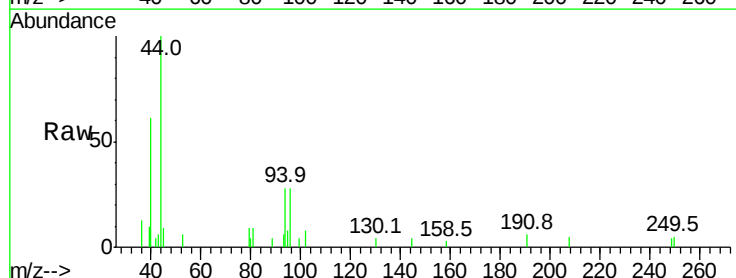
Acq: 15 Aug 2018 13:15

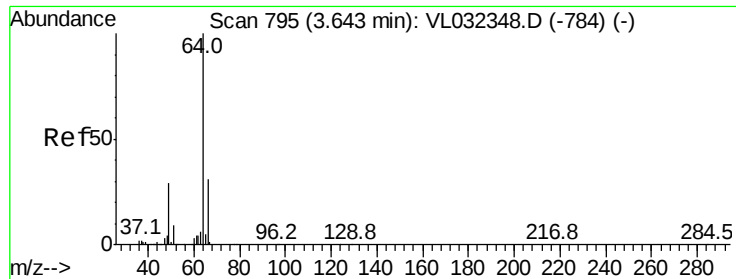
Tgt Ion: 94 Resp: 423

Ion Ratio Lower Upper

94 100

96 9.0 70.2 105.4#





#7

Chloroethane

Concen: 0.016 ppbv

RT: 3.64 min Scan# 794

Delta R.T. -0.01 min

Lab File: VL032353.D

Acq: 15 Aug 2018 13:15

Instrument :

MSVOA_L

ClientSampleId :

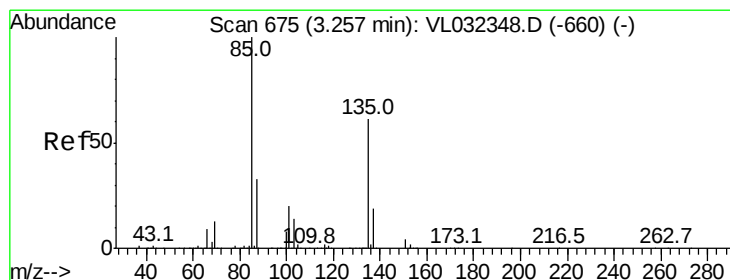
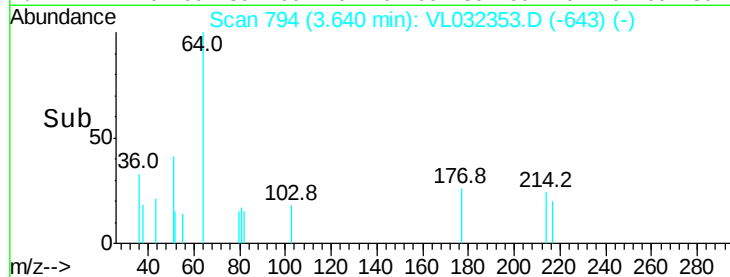
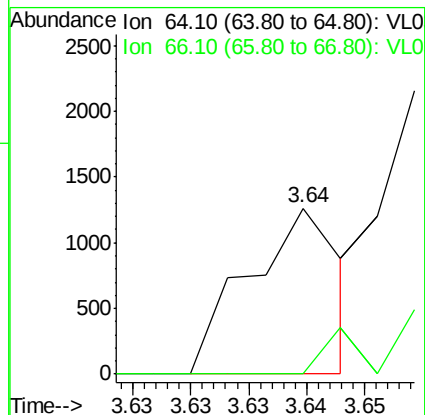
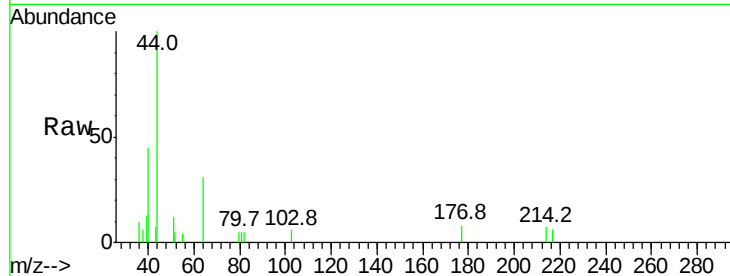
VSTDIC0.03

Tgt Ion: 64 Resp: 703

Ion Ratio Lower Upper

64 100

66 0.0 25.7 38.5#



#8

Dichlorotetrafluoroethane

Concen: 0.028 ppbv

RT: 3.26 min Scan# 675

Delta R.T. -0.01 min

Lab File: VL032353.D

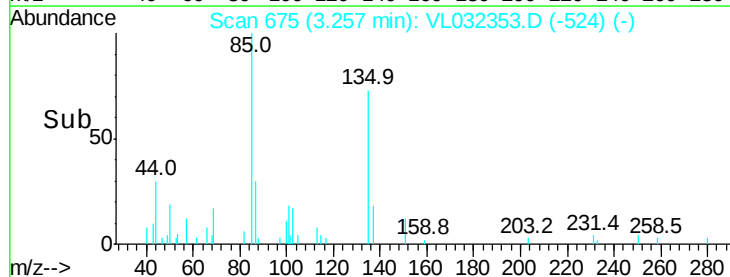
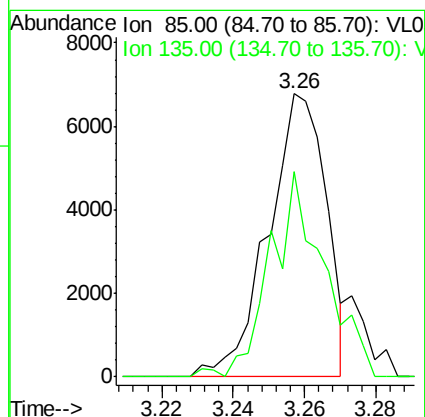
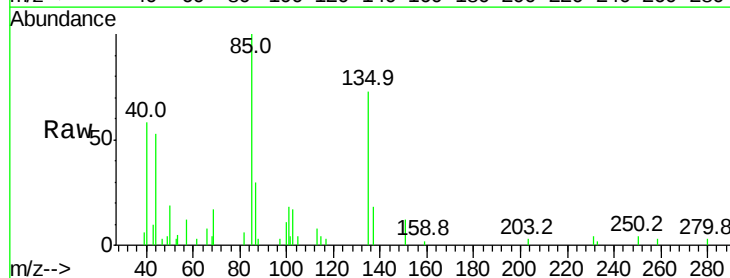
Acq: 15 Aug 2018 13:15

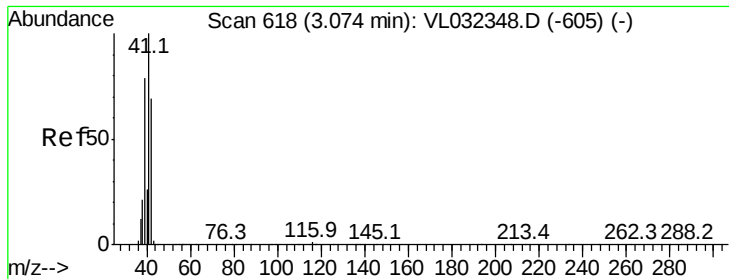
Tgt Ion: 85 Resp: 7632

Ion Ratio Lower Upper

85 100

135 67.2 48.7 73.1





#9

Propene

Concen: 0.023 ppbv

RT: 3.07 min Scan# 617

Delta R.T. -0.01 min

Lab File: VL032353.D

Acq: 15 Aug 2018 13:15

Instrument :

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ClientSampleId :

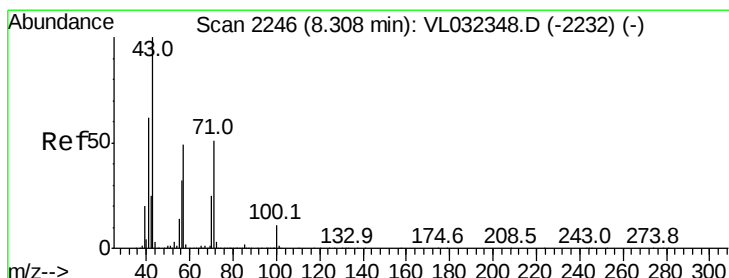
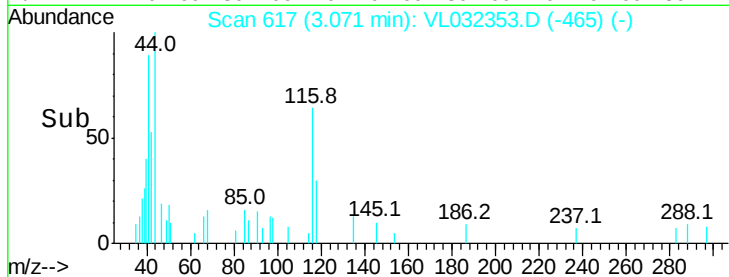
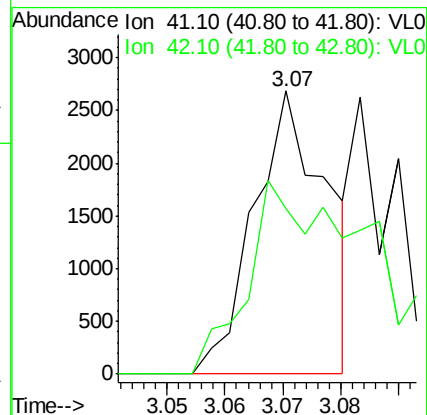
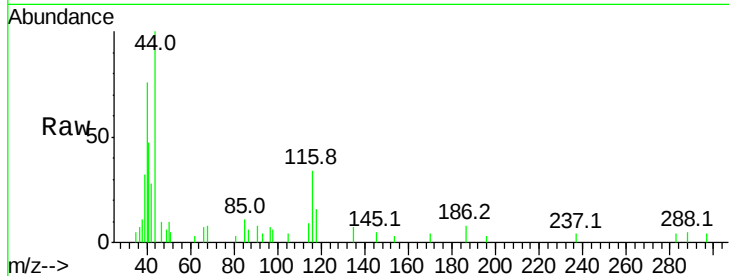
VSTDIC0.03

Tgt Ion: 41 Resp: 2334

Ion Ratio Lower Upper

41 100

42 140.6 56.8 85.2#



#10

Heptane

Concen: 0.005 ppbv

RT: 8.31 min Scan# 2245

Delta R.T. -0.02 min

Lab File: VL032353.D

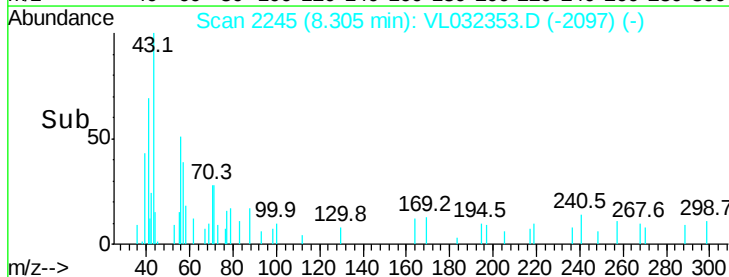
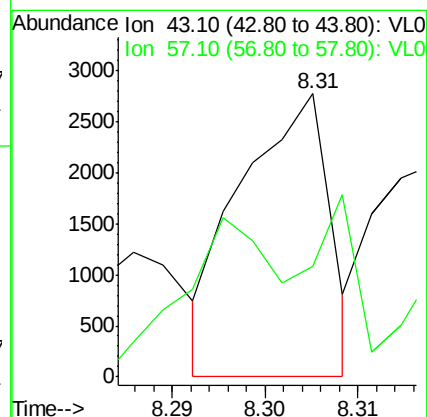
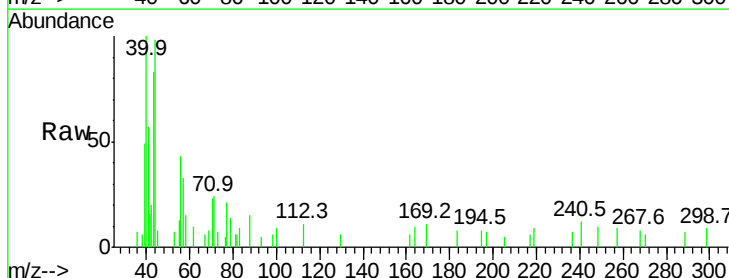
Acq: 15 Aug 2018 13:15

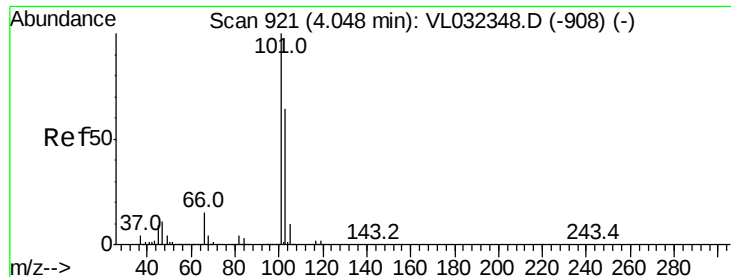
Tgt Ion: 43 Resp: 1856

Ion Ratio Lower Upper

43 100

57 128.9 39.0 58.4#





#11

Trichlorofluoromethane

Concen: 0.020 ppbv

RT: 4.05 min Scan# 921

Delta R.T. -0.01 min

Lab File: VL032353.D

Acq: 15 Aug 2018 13:15

Instrument :

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ClientSampleId :

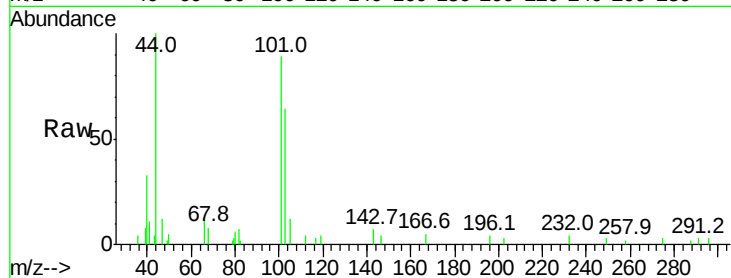
VSTDIC0.03

Tgt Ion:101 Resp: 5203

Ion Ratio Lower Upper

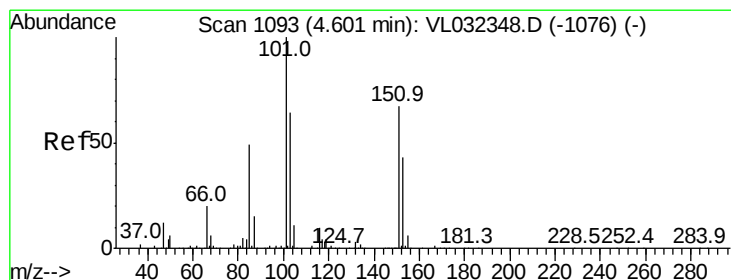
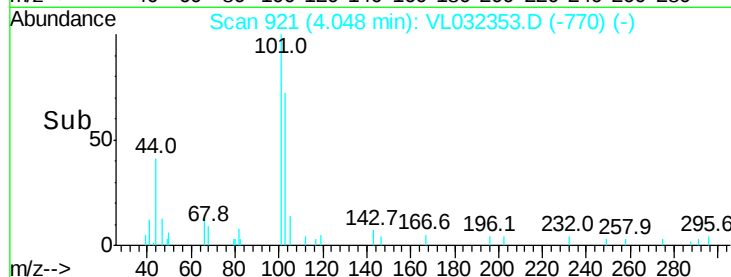
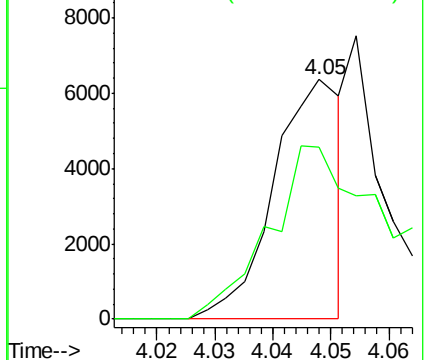
101 100

103 71.8 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: 0.002 ppbv

RT: 4.47 min Scan# 1053

Delta R.T. -0.14 min

Lab File: VL032353.D

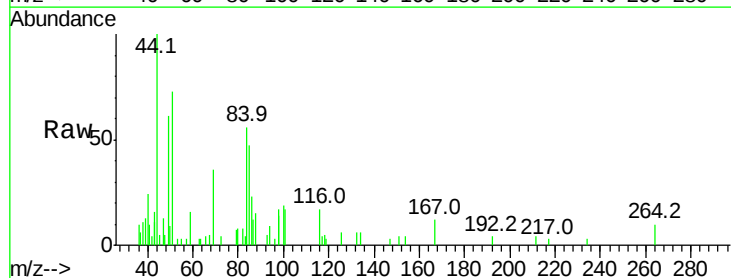
Acq: 15 Aug 2018 13:15

Tgt Ion:101 Resp: 316

Ion Ratio Lower Upper

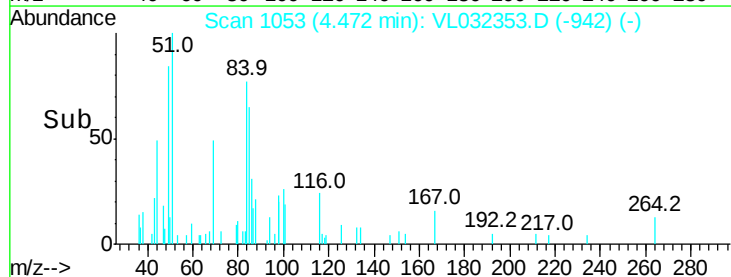
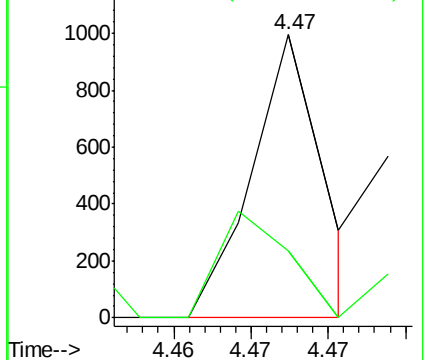
101 100

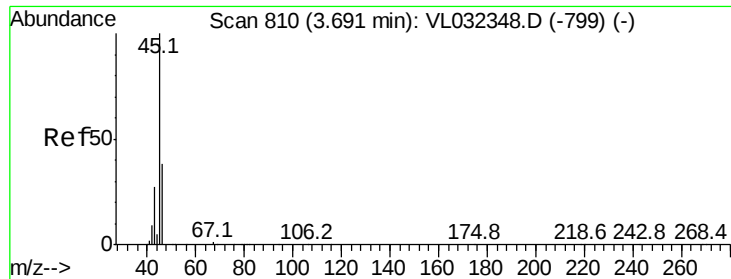
151 59.5 52.4 78.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 0.004 ppbv

RT: 3.68 min Scan# 805

Delta R.T. -0.03 min

Lab File: VL032353.D

Acq: 15 Aug 2018 13:15

Instrument :

MSVOA_L

ClientSampleId :

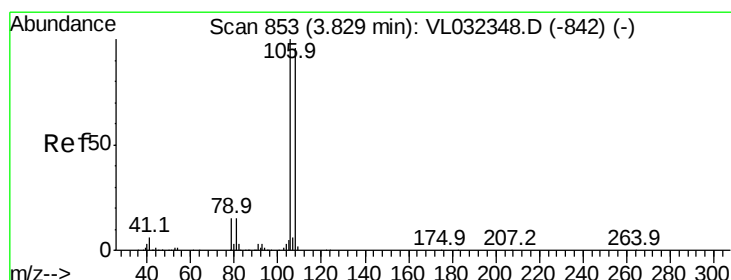
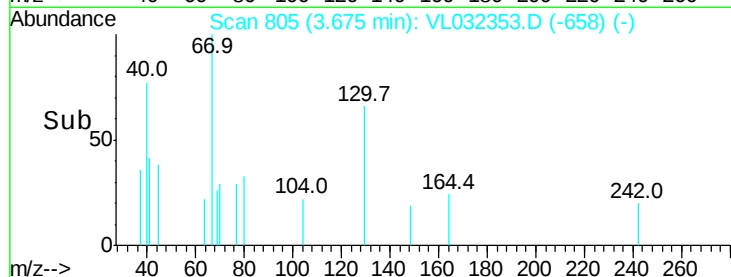
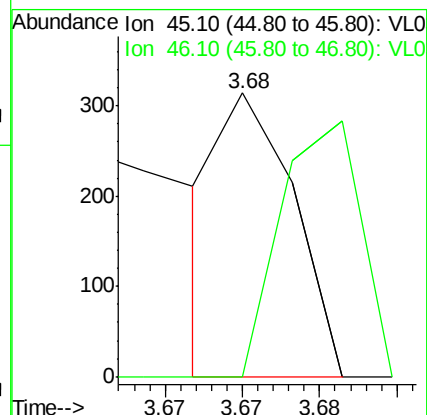
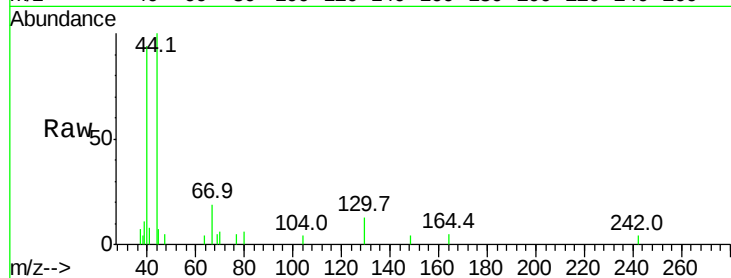
VSTDIC0.03

Tgt Ion: 45 Resp: 102

Ion Ratio Lower Upper

45 100

46 151.0 15.2 60.6#



#14

Bromoethene

Concen: 0.026 ppbv

RT: 3.83 min Scan# 853

Delta R.T. -0.01 min

Lab File: VL032353.D

Acq: 15 Aug 2018 13:15

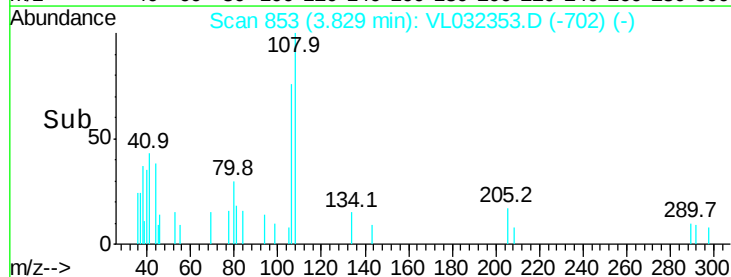
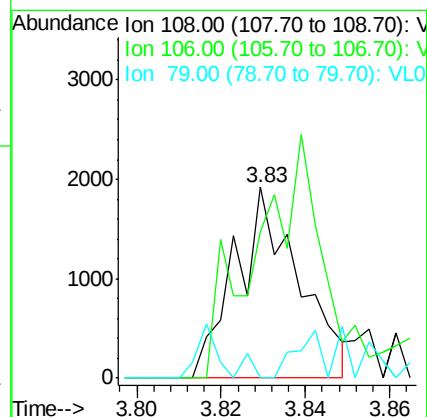
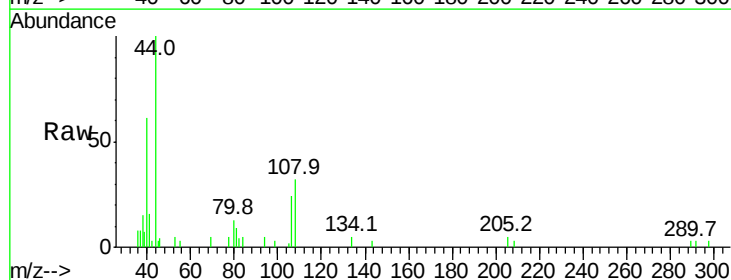
Tgt Ion: 108 Resp: 2015

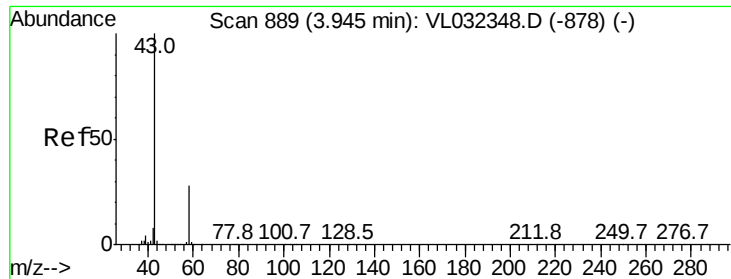
Ion Ratio Lower Upper

108 100

106 142.6 86.0 129.0#

79 25.3 12.8 19.2#





#15

Acetone

Concen: 0.176 ppbv

RT: 3.97 min Scan# 898

Delta R.T. 0.02 min

Lab File: VL032353.D

Acq: 15 Aug 2018 13:15

Instrument :

MSVOA_L

ClientSampleId :

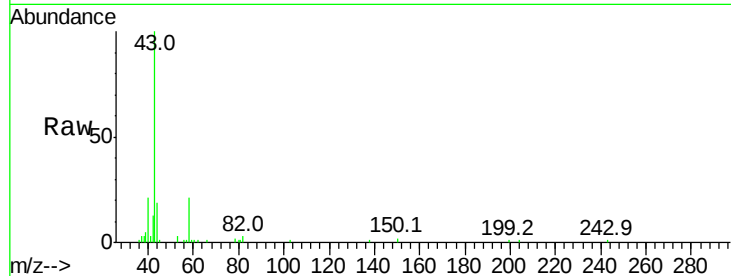
VSTDIC0.03

Tgt Ion: 43 Resp: 37179

Ion Ratio Lower Upper

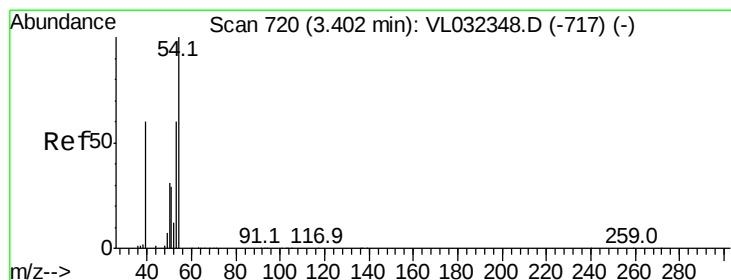
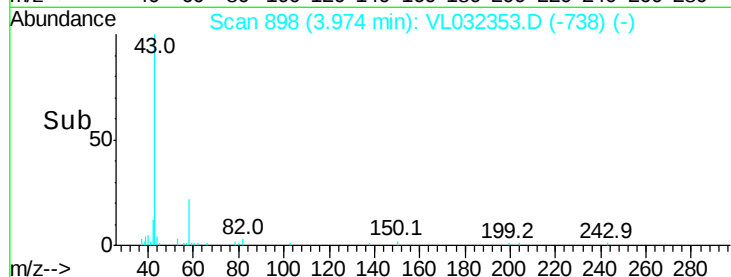
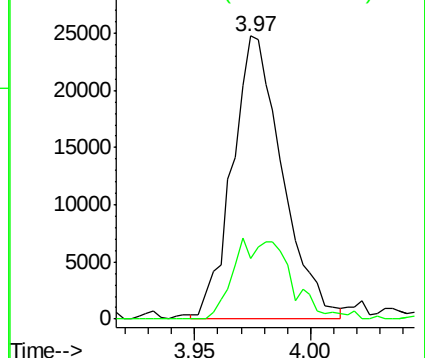
43 100

58 32.5 22.5 33.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.029 ppbv

RT: 3.40 min Scan# 719

Delta R.T. -0.02 min

Lab File: VL032353.D

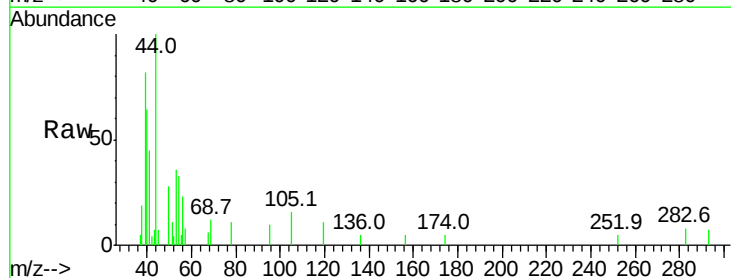
Acq: 15 Aug 2018 13:15

Tgt Ion: 39 Resp: 3229

Ion Ratio Lower Upper

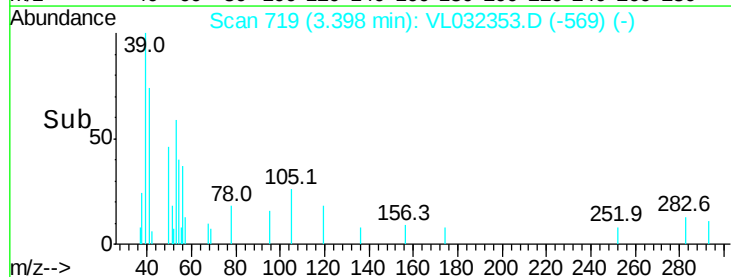
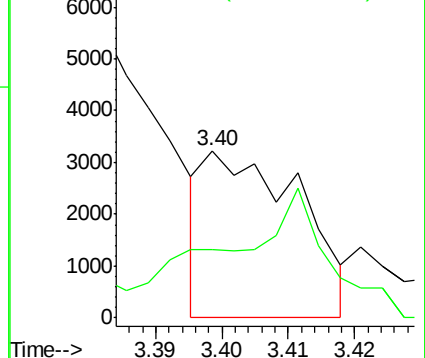
39 100

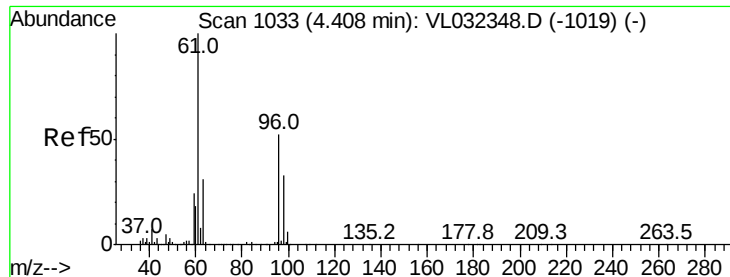
54 0.0 74.3 111.5#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 0.056 ppbv

RT: 4.46 min Scan# 1050

Delta R.T. 0.04 min

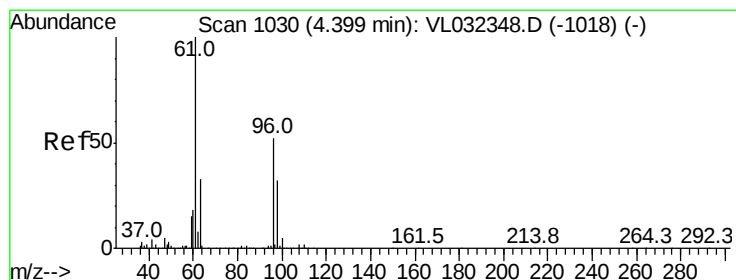
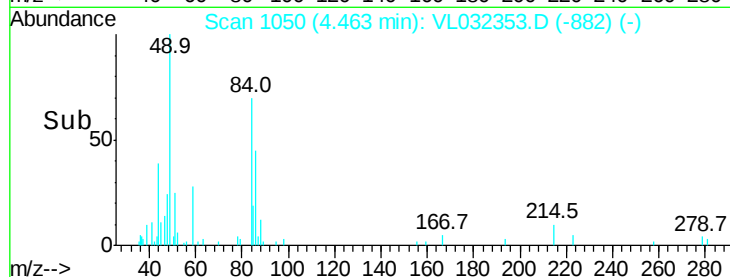
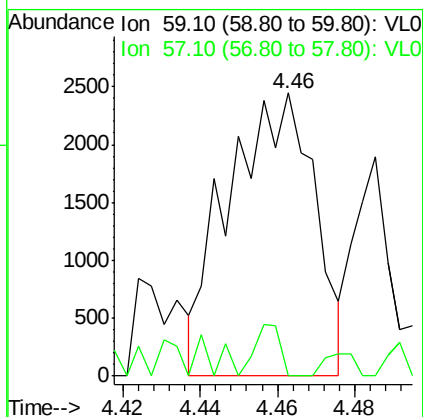
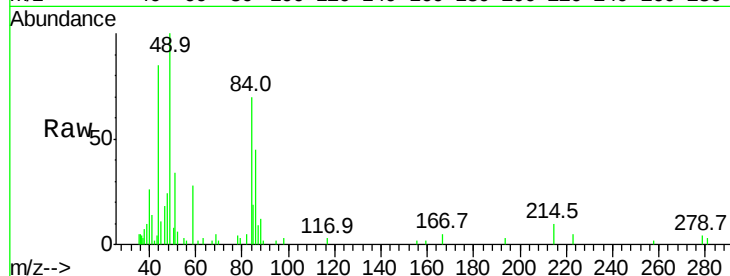
Lab File: VL032353.D

Acq: 15 Aug 2018 13:15

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

Tgt Ion: 59 Resp: 3787

Ion	Ratio	Lower	Upper
59	100		
57	11.4	8.0	12.0



#18

1,1-Dichloroethene

Concen: 0.015 ppbv

RT: 4.40 min Scan# 1032

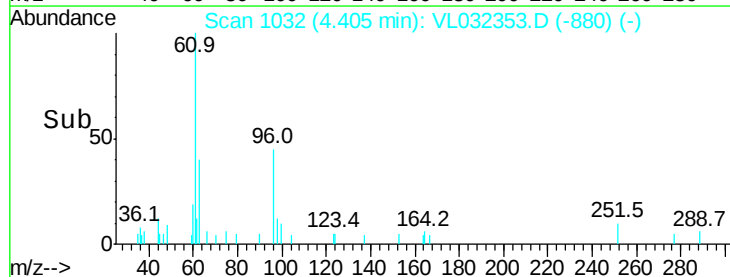
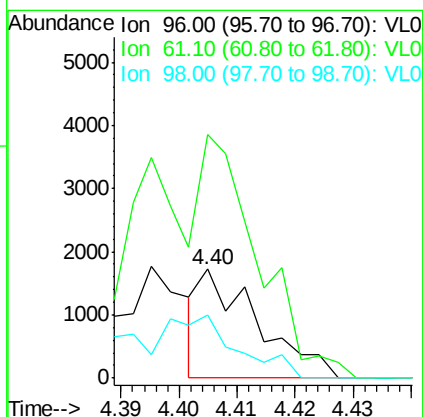
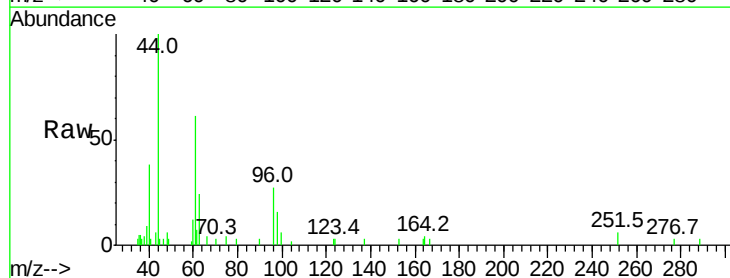
Delta R.T. -0.01 min

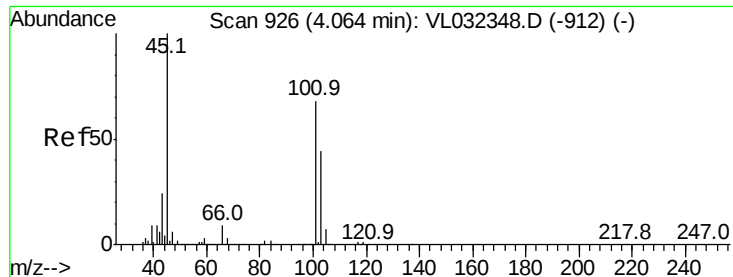
Lab File: VL032353.D

Acq: 15 Aug 2018 13:15

Tgt Ion: 96 Resp: 1189

Ion	Ratio	Lower	Upper
96	100		
61	236.4	159.0	238.4
98	58.1	51.1	76.7

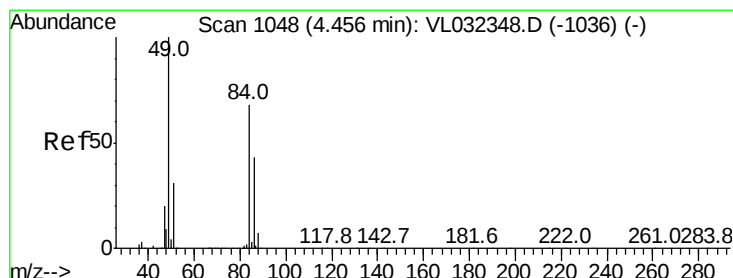
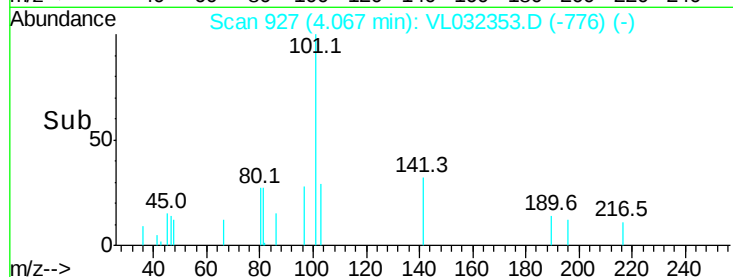
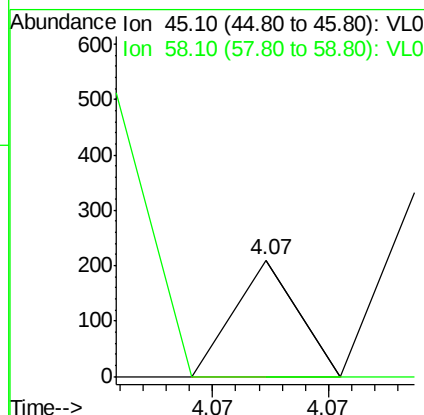
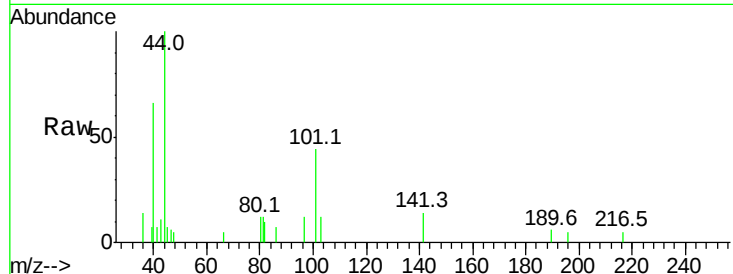




#19
Isopropyl Alcohol
Concen: 0.000 ppbv
RT: 4.07 min Scan# 927
Delta R.T. -0.01 min
Lab File: VL032353.D
Acq: 15 Aug 2018 13:15

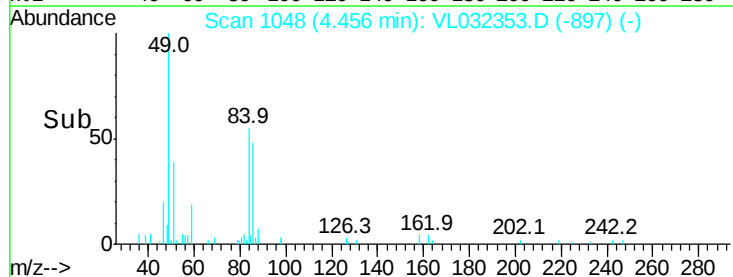
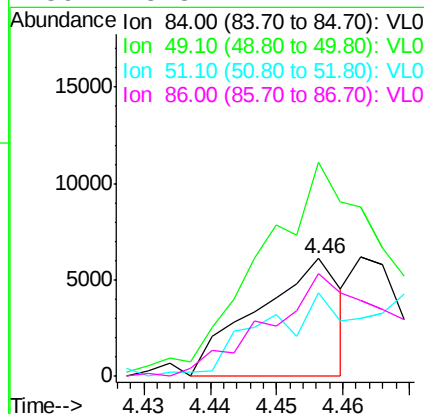
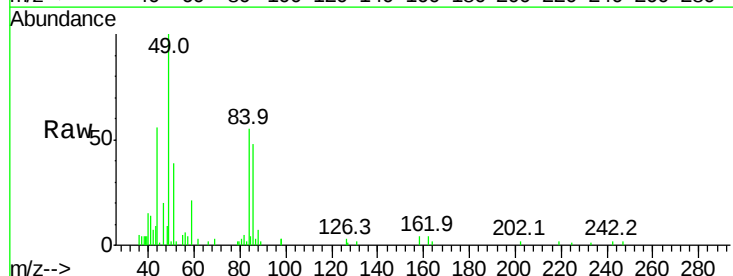
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

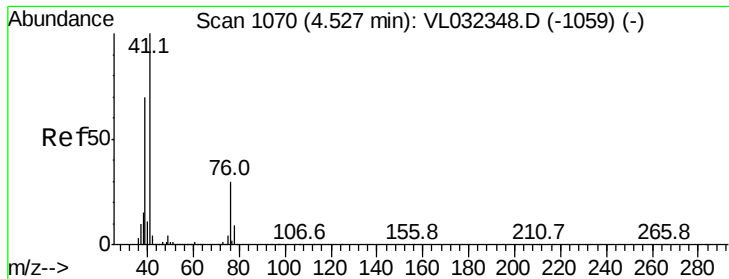
Tgt Ion: 45 Resp: 41
Ion Ratio Lower Upper
45 100
58 0.0 1.5 2.3#



#20
Methylene Chloride
Concen: 0.063 ppbv
RT: 4.46 min Scan# 1048
Delta R.T. -0.01 min
Lab File: VL032353.D
Acq: 15 Aug 2018 13:15

Tgt Ion: 84 Resp: 5327
Ion Ratio Lower Upper
84 100
49 159.8 123.4 185.0
51 63.8 38.2 57.2#
86 75.8 47.4 71.2#

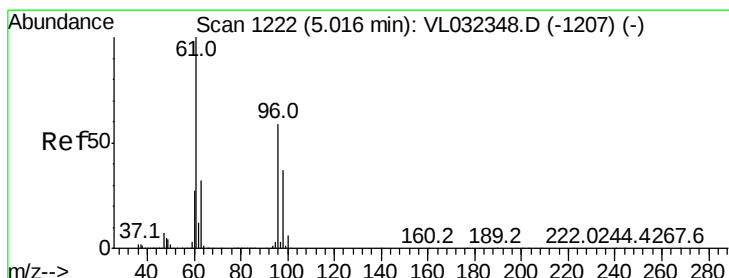
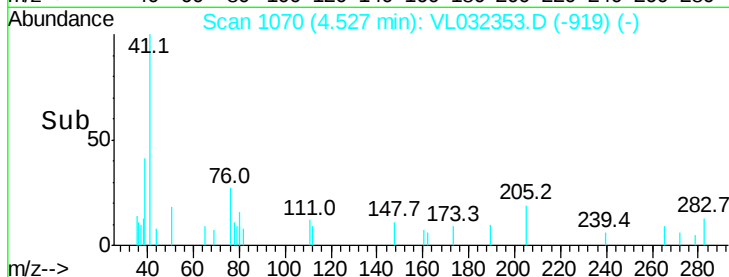
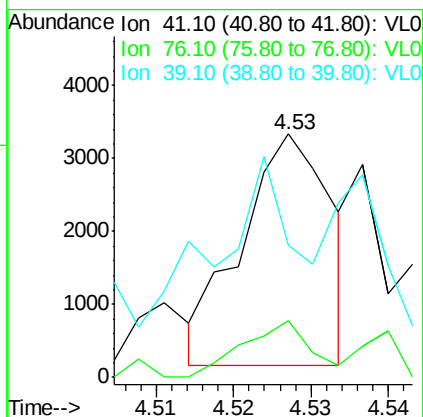
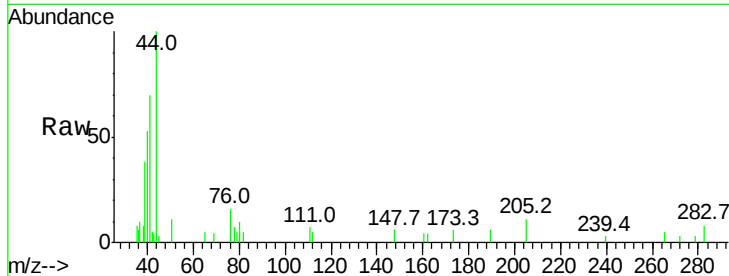




#21
 Allyl Chloride
 Concen: 0.018 ppbv
 RT: 4.53 min Scan# 1070
 Delta R.T. -0.01 min
 Lab File: VL032353.D
 Acq: 15 Aug 2018 13:15

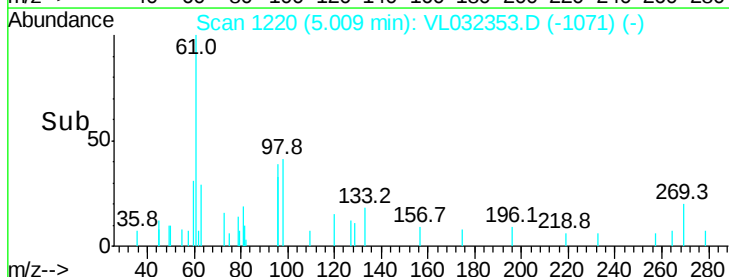
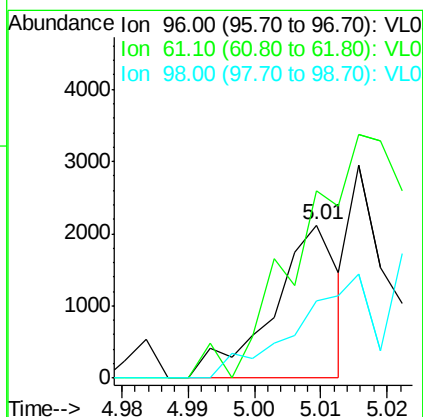
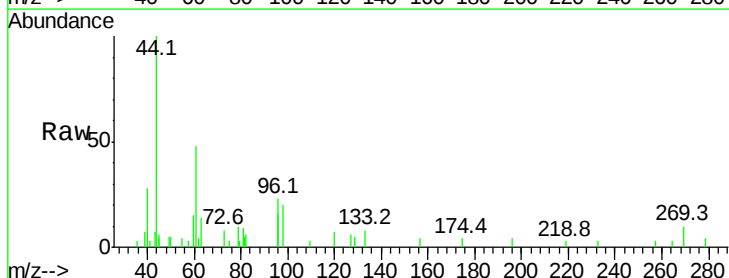
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

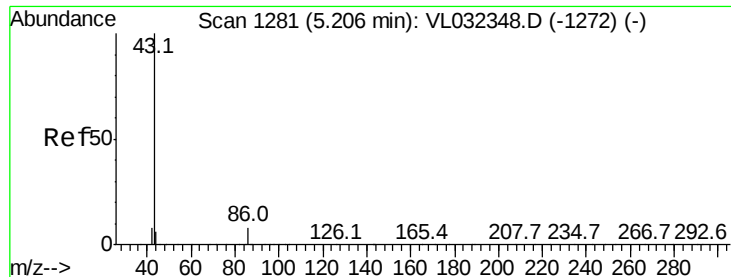
Tgt Ion: 41 Resp: 2556
 Ion Ratio Lower Upper
 41 100
 76 39.9 23.1 34.7#
 39 173.0 58.2 87.2#



#22
 trans-1,2-Dichloroethene
 Concen: 0.018 ppbv
 RT: 5.01 min Scan# 1220
 Delta R.T. -0.02 min
 Lab File: VL032353.D
 Acq: 15 Aug 2018 13:15

Tgt Ion: 96 Resp: 1434
 Ion Ratio Lower Upper
 96 100
 61 122.8 136.5 204.7#
 98 50.5 51.3 76.9#

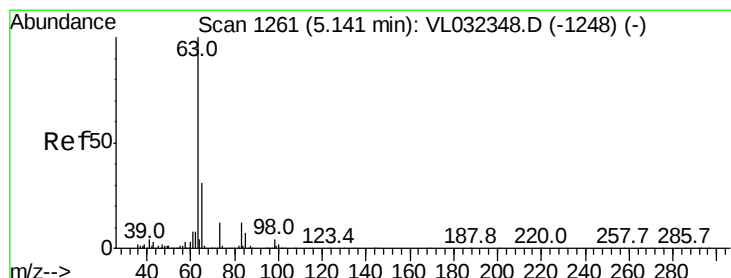
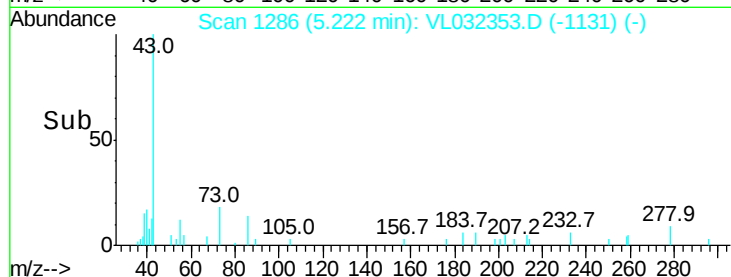
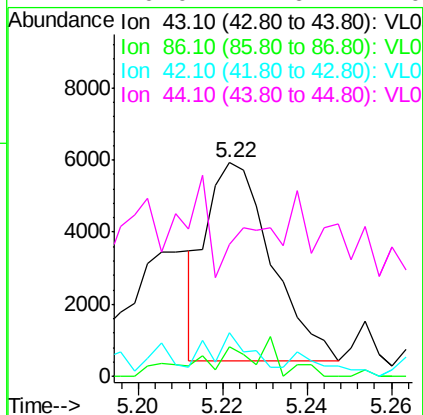
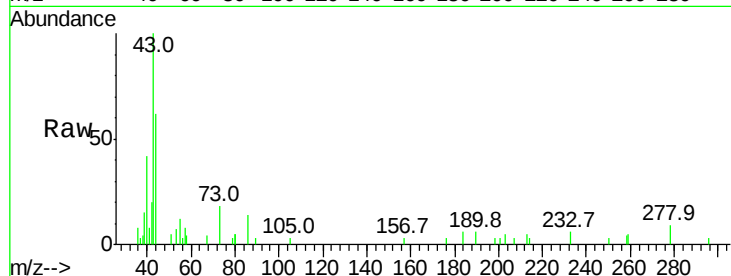




#23
 Vinyl Acetate
 Concen: 0.015 ppbv
 RT: 5.22 min Scan# 1286
 Delta R.T. -0.00 min
 Lab File: VL032353.D
 Acq: 15 Aug 2018 13:15

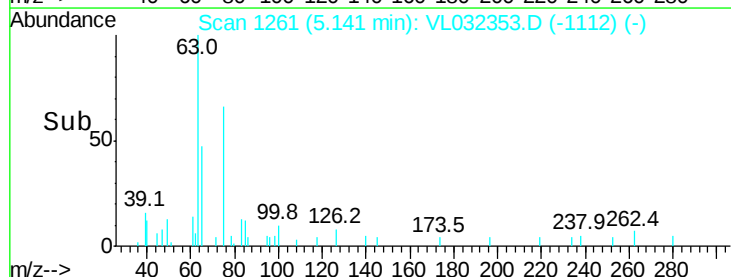
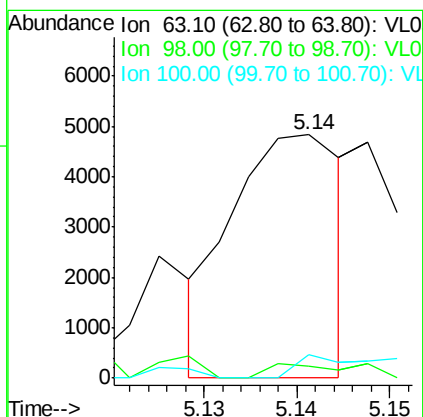
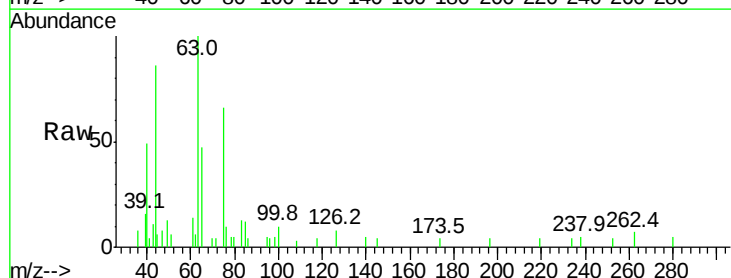
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

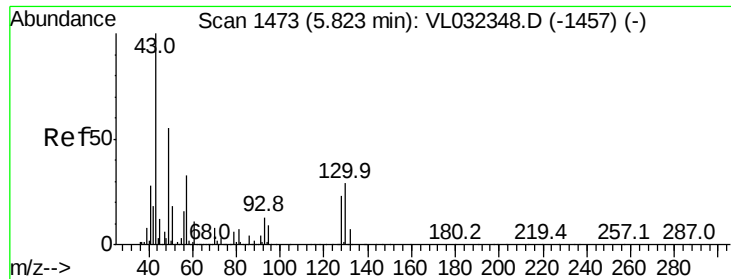
Tgt Ion:	43	Resp:	5846
Ion	Ratio	Lower	Upper
43	100		
86	14.8	6.3	9.5#
42	17.7	7.0	10.4#
44	0.0	4.6	7.0#



#24
 1,1-Dichloroethane
 Concen: 0.015 ppbv
 RT: 5.14 min Scan# 1261
 Delta R.T. -0.02 min
 Lab File: VL032353.D
 Acq: 15 Aug 2018 13:15

Tgt Ion:	63	Resp:	3989
Ion	Ratio	Lower	Upper
63	100		
98	2.1	2.1	6.5#
100	10.4	1.3	3.8#

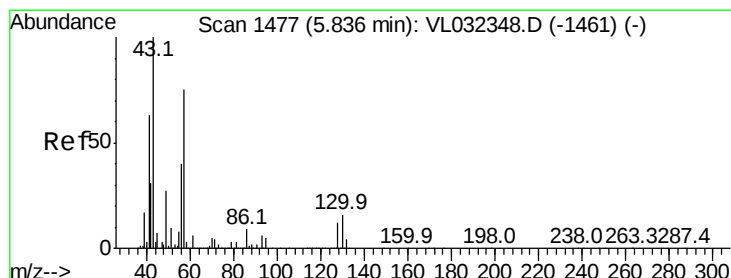
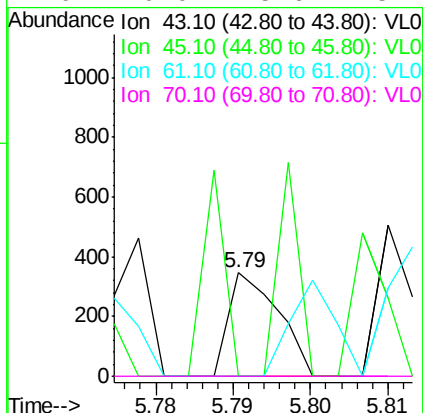
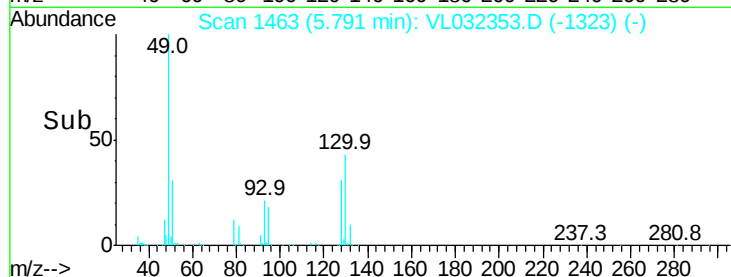
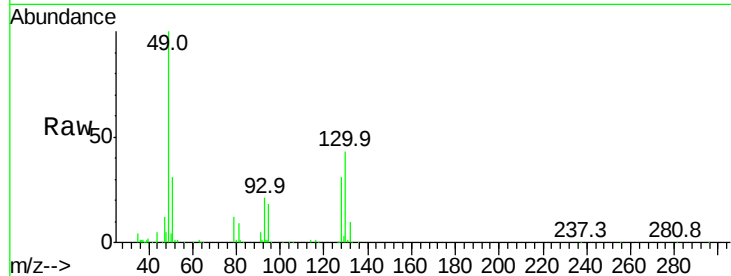




#25
Ethyl Acetate
Concen: 0.000 ppbv
RT: 5.79 min Scan# 1463
Delta R.T. -0.05 min
Lab File: VL032353.D
Acq: 15 Aug 2018 13:15

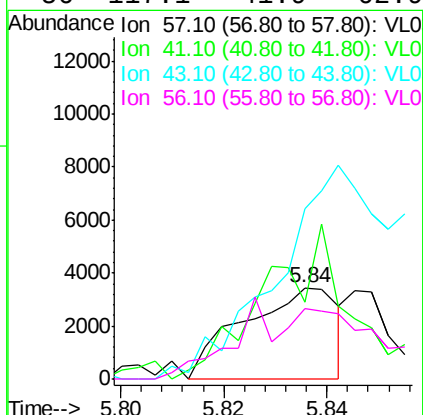
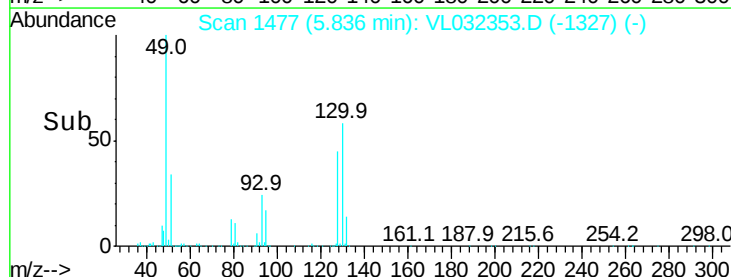
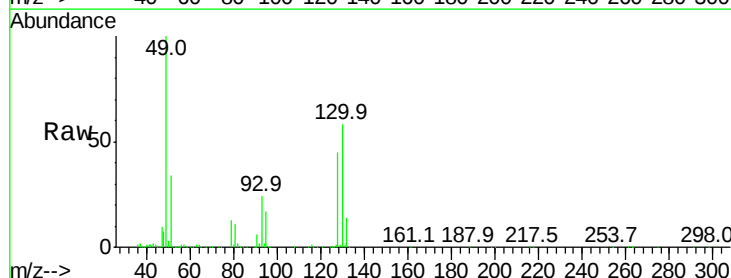
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

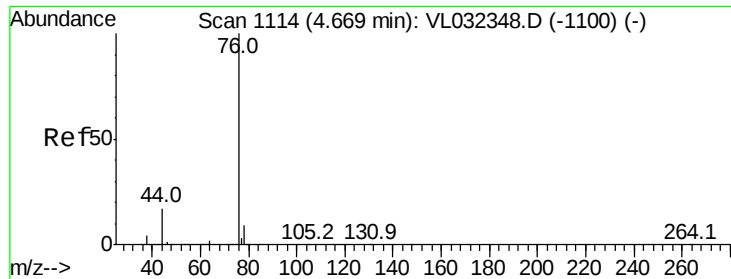
Tgt Ion: 43 Resp: 155
Ion Ratio Lower Upper
43 100
45 107.7 8.1 12.1#
61 174.8 7.4 11.0#
70 0.0 5.6 8.4#



#26
Hexane
Concen: 0.020 ppbv
RT: 5.84 min Scan# 1477
Delta R.T. -0.02 min
Lab File: VL032353.D
Acq: 15 Aug 2018 13:15

Tgt Ion: 57 Resp: 4349
Ion Ratio Lower Upper
57 100
41 0.0 68.1 102.1#
43 0.0 177.4 266.2#
56 117.1 41.9 62.9#





#27

Carbon Disulfide

Concen: 0.014 ppbv

RT: 4.67 min Scan# 1115

Delta R.T. -0.01 min

Lab File: VL032353.D

Acq: 15 Aug 2018 13:15

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

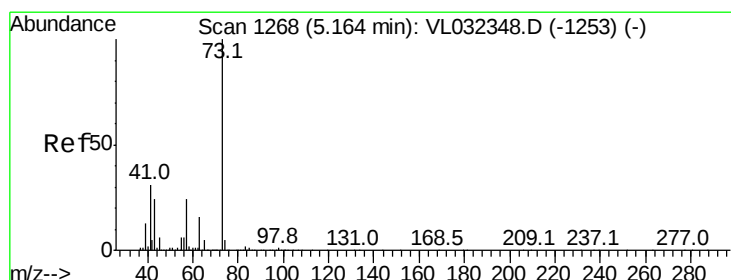
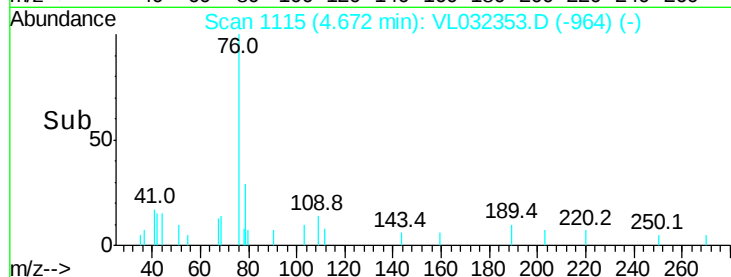
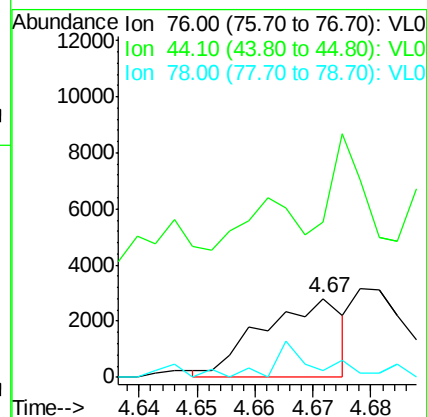
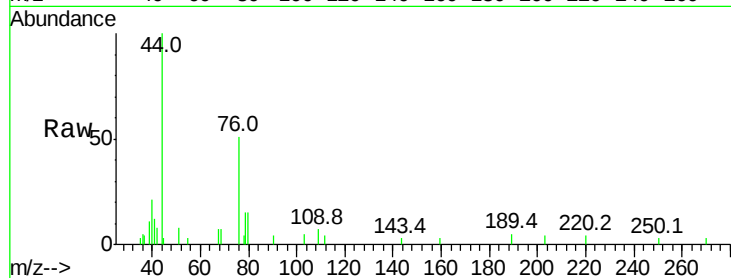
Tgt Ion: 76 Resp: 2716

Ion Ratio Lower Upper

76 100

44 0.0 14.0 21.0#

78 0.0 7.5 11.3#



#28

Methyl tert-Butyl Ether

Concen: 0.001 ppbv

RT: 5.17 min Scan# 1270

Delta R.T. -0.01 min

Lab File: VL032353.D

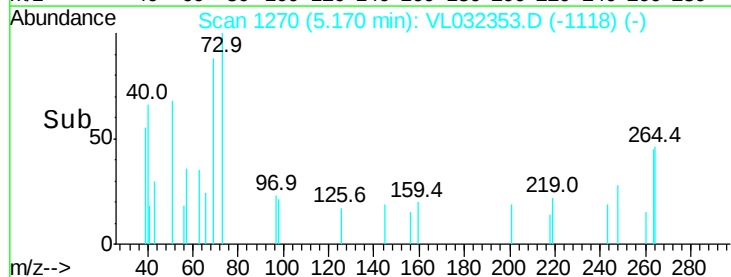
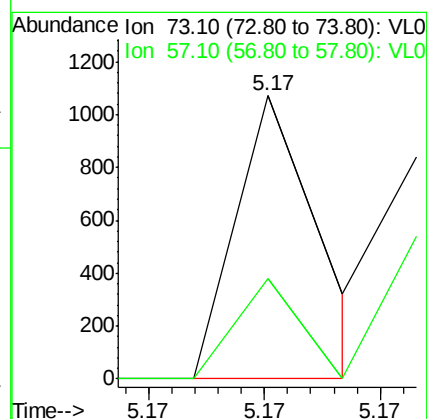
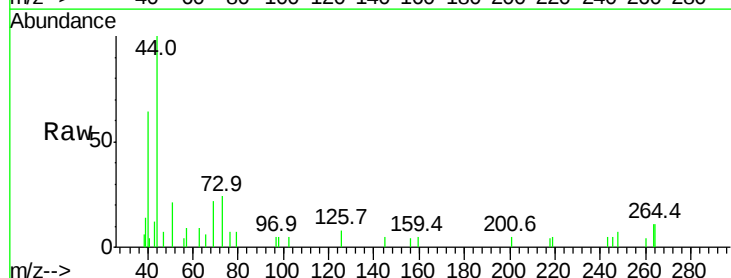
Acq: 15 Aug 2018 13:15

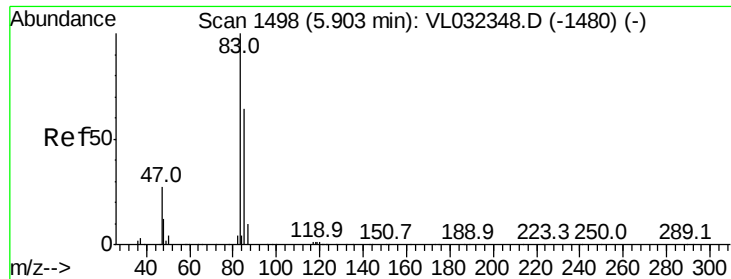
Tgt Ion: 73 Resp: 268

Ion Ratio Lower Upper

73 100

57 0.0 19.4 29.0#





#29

Chloroform

Concen: 0.011 ppbv

RT: 5.89 min Scan# 1494

Delta R.T. -0.03 min

Lab File: VL032353.D

Acq: 15 Aug 2018 13:15

Instrument :

MSVOA_L

ClientSampleId :

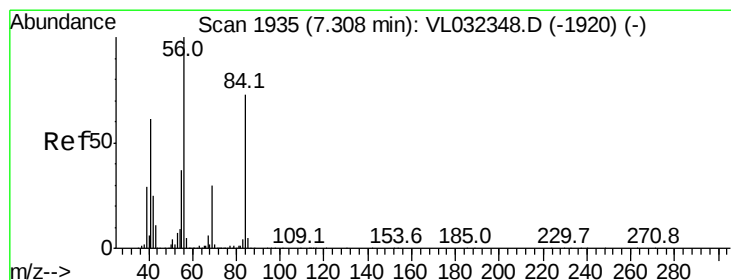
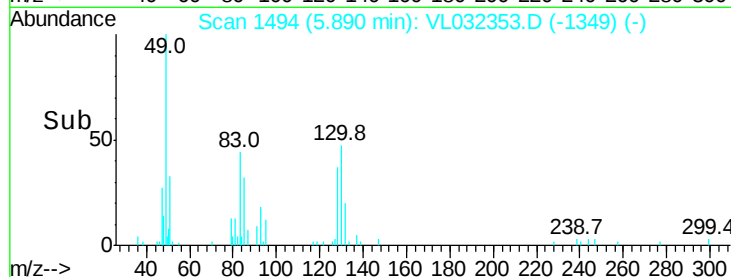
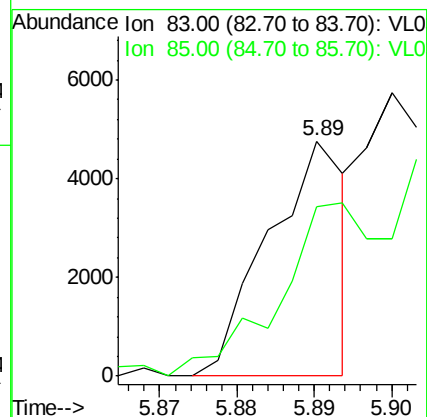
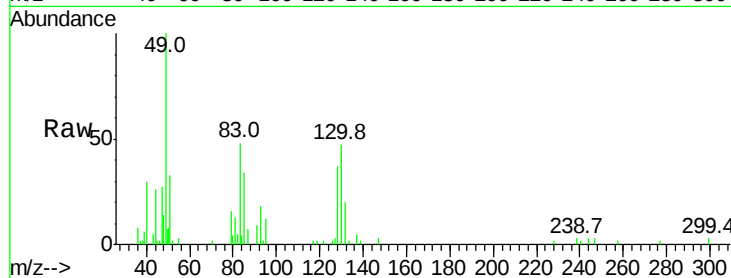
VSTDIC0.03

Tgt Ion: 83 Resp: 3338

Ion Ratio Lower Upper

83 100

85 64.5 52.9 79.3



#30

Cyclohexane

Concen: 0.003 ppbv

RT: 7.31 min Scan# 1935

Delta R.T. -0.02 min

Lab File: VL032353.D

Acq: 15 Aug 2018 13:15

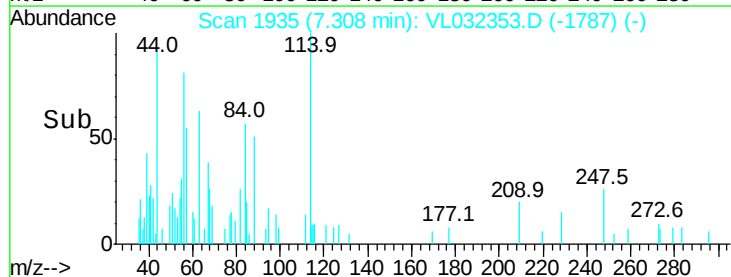
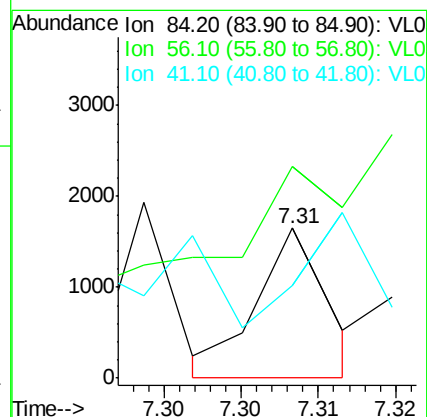
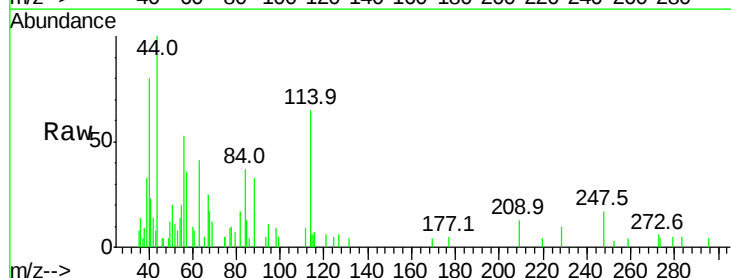
Tgt Ion: 84 Resp: 516

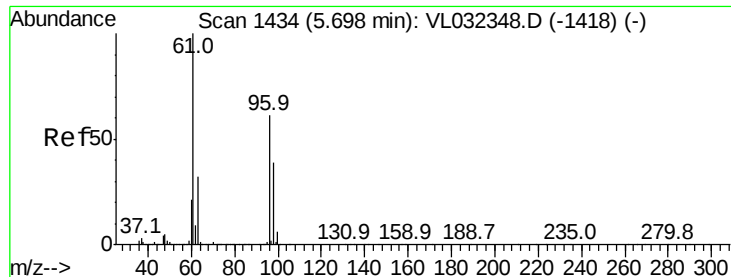
Ion Ratio Lower Upper

84 100

56 0.0 116.8 175.2#

41 0.0 70.0 105.0#

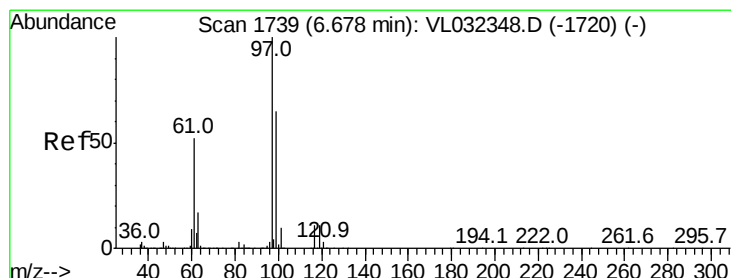
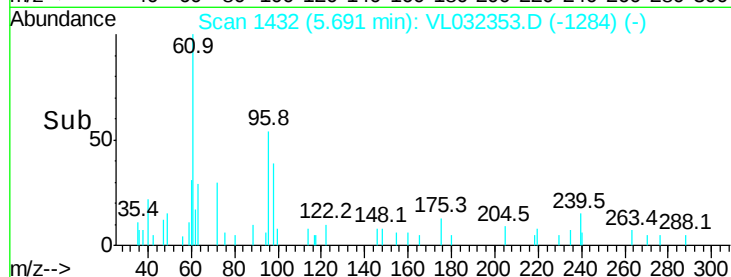
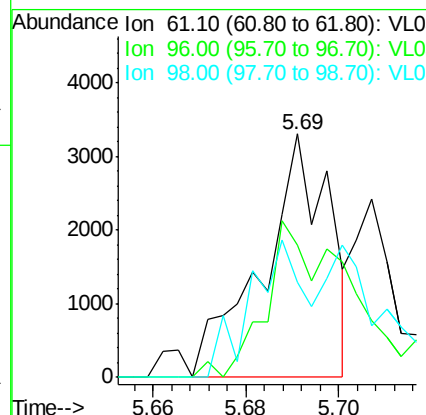
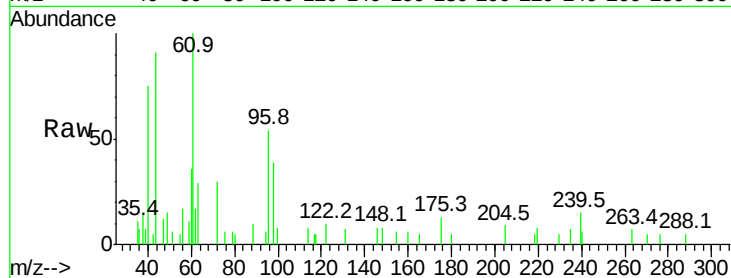




#31
 cis-1,2-Dichloroethene
 Concen: 0.017 ppbv
 RT: 5.69 min Scan# 1432
 Delta R.T. -0.02 min
 Lab File: VL032353.D
 Acq: 15 Aug 2018 13:15

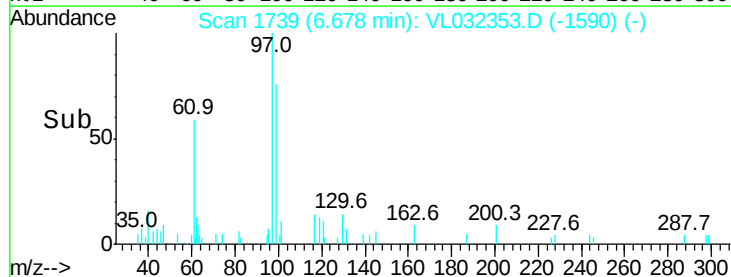
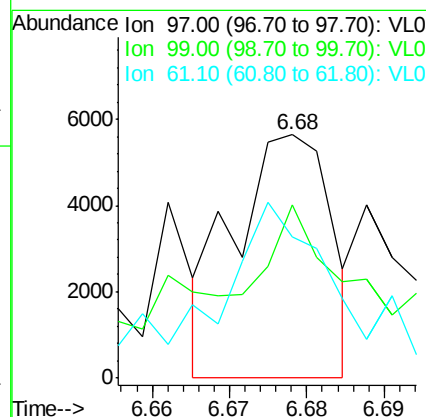
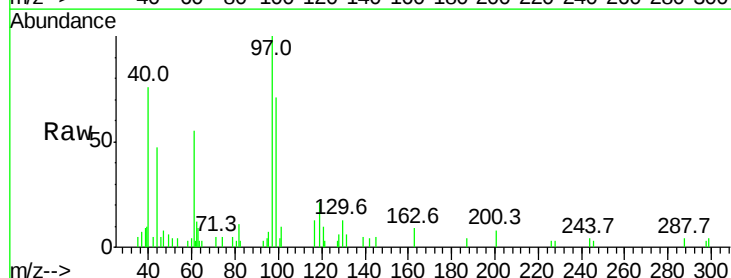
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

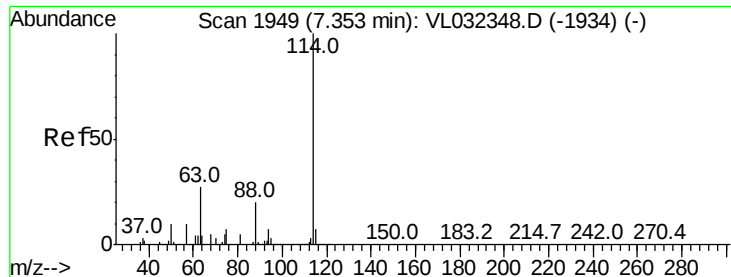
Tgt Ion: 61 Resp: 3295
 Ion Ratio Lower Upper
 61 100
 96 54.1 49.8 74.6
 98 39.3 31.8 47.6



#32
 1,1,1-Trichloroethane
 Concen: 0.018 ppbv
 RT: 6.68 min Scan# 1739
 Delta R.T. -0.02 min
 Lab File: VL032353.D
 Acq: 15 Aug 2018 13:15

Tgt Ion: 97 Resp: 4928
 Ion Ratio Lower Upper
 97 100
 99 128.0 50.9 76.3#
 61 113.1 41.8 62.6#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.35 min Scan# 1948

Delta R.T. -0.02 min

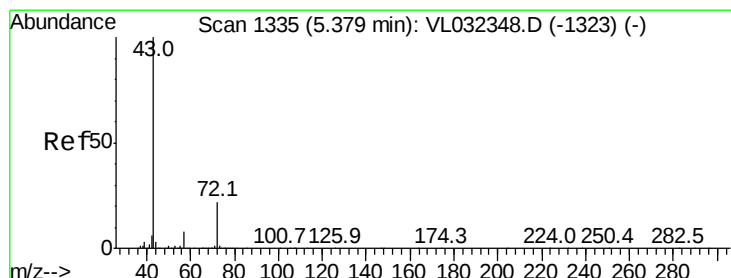
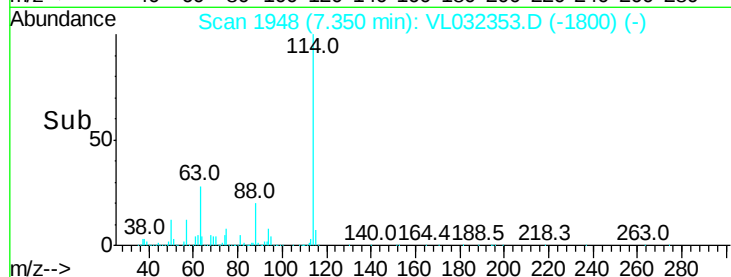
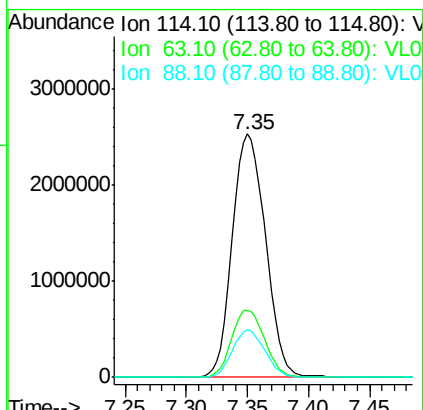
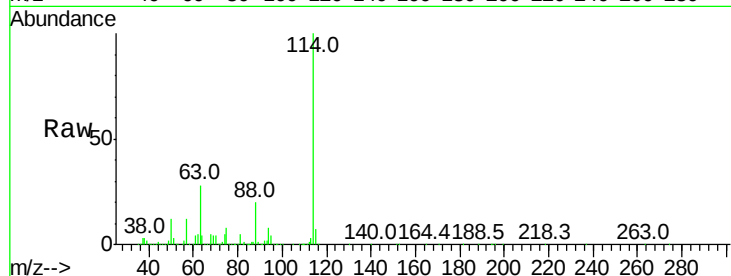
Lab File: VL032353.D

Acq: 15 Aug 2018 13:15

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

Tgt Ion:114 Resp: 4781457

Ion	Ratio	Lower	Upper
114	100		
63	27.7	22.4	33.6
88	19.1	15.3	22.9



#34

2-Butanone

Concen: 0.001 ppbv

RT: 5.38 min Scan# 1334

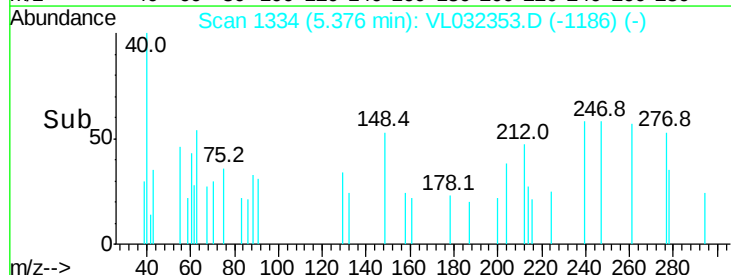
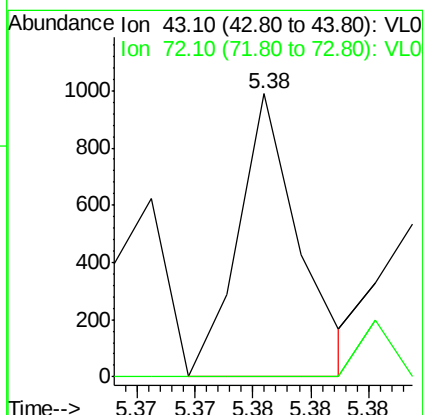
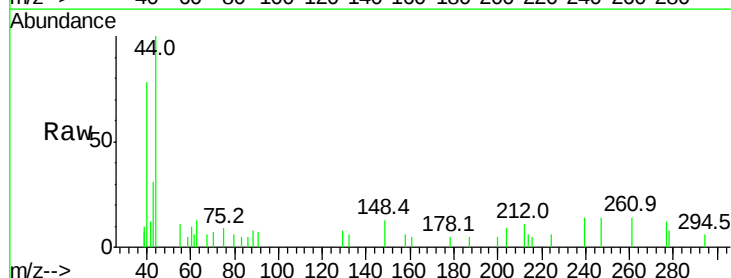
Delta R.T. -0.02 min

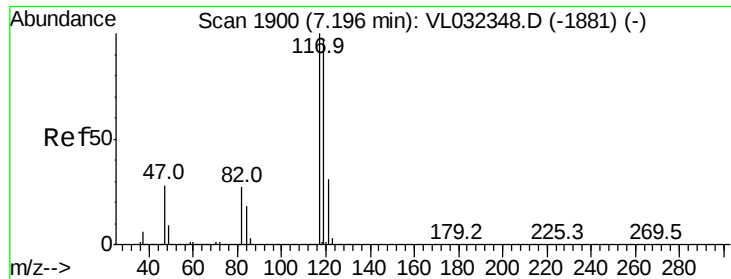
Lab File: VL032353.D

Acq: 15 Aug 2018 13:15

Tgt Ion: 43 Resp: 361

Ion	Ratio	Lower	Upper
43	100		
72	0.0	17.4	26.2





#35

Carbon Tetrachloride

Concen: 0.010 ppbv

RT: 7.19 min Scan# 1899

Delta R.T. -0.02 min

Lab File: VL032353.D

Acq: 15 Aug 2018 13:15

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

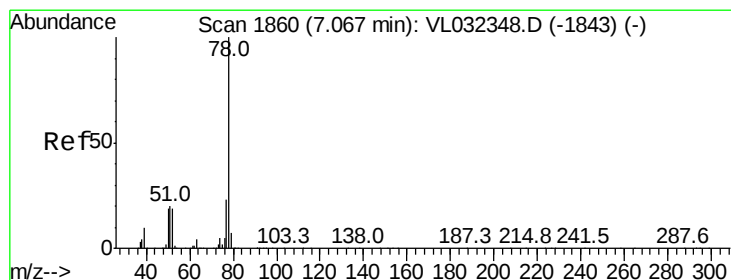
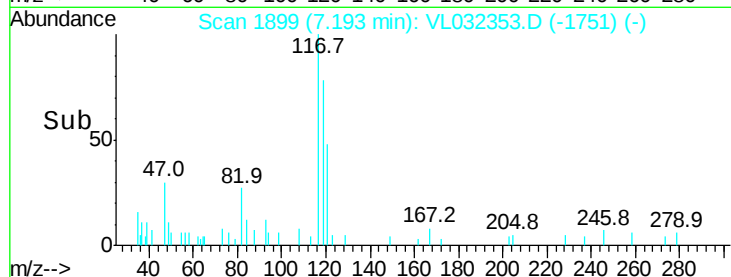
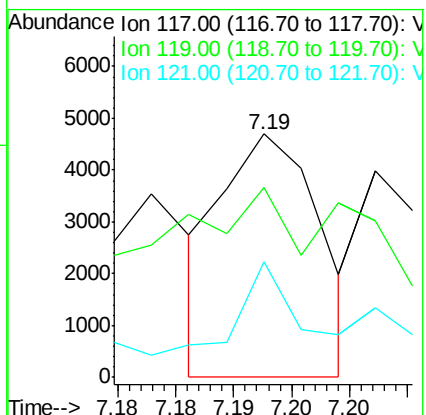
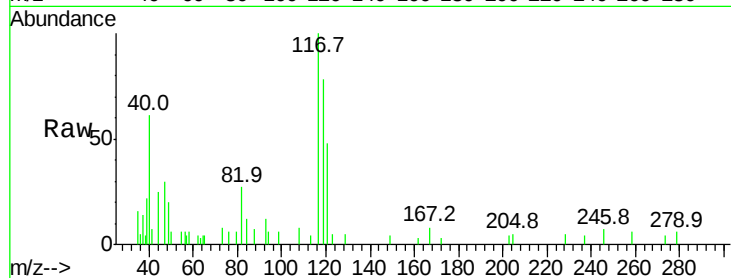
Tgt Ion:117 Resp: 2774

Ion Ratio Lower Upper

117 100

119 19.5 76.1 114.1#

121 59.8 24.4 36.6#



#36

Benzene

Concen: 0.026 ppbv

RT: 7.07 min Scan# 1860

Delta R.T. -0.02 min

Lab File: VL032353.D

Acq: 15 Aug 2018 13:15

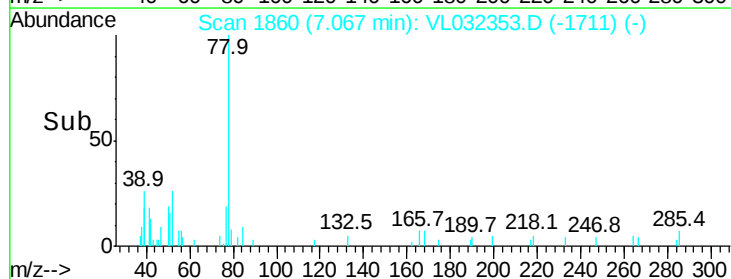
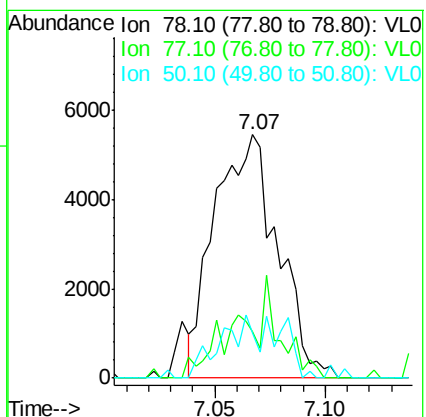
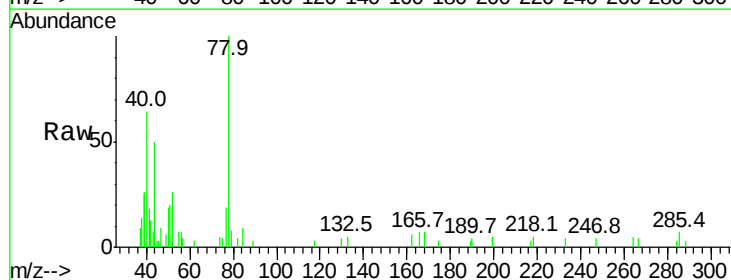
Tgt Ion: 78 Resp: 10799

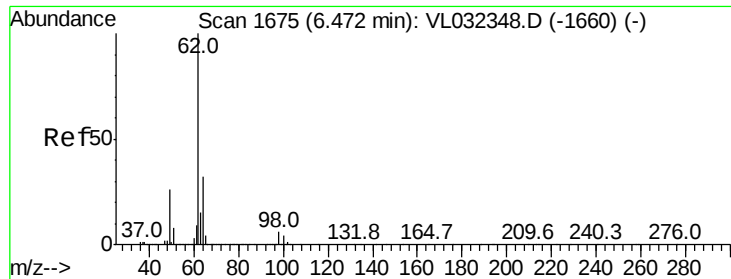
Ion Ratio Lower Upper

78 100

77 18.9 18.4 27.6

50 18.7 15.3 22.9

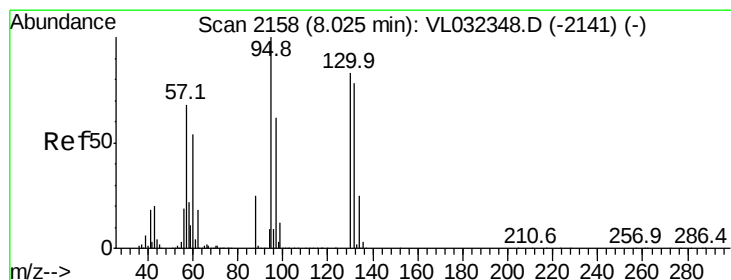
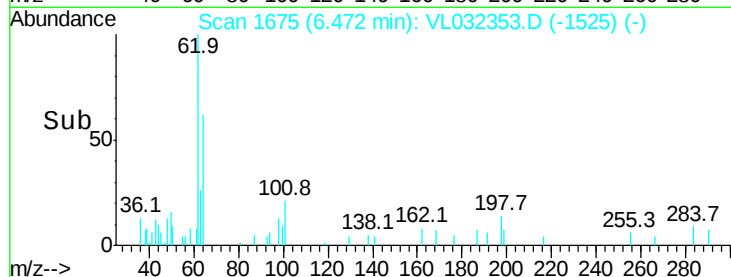
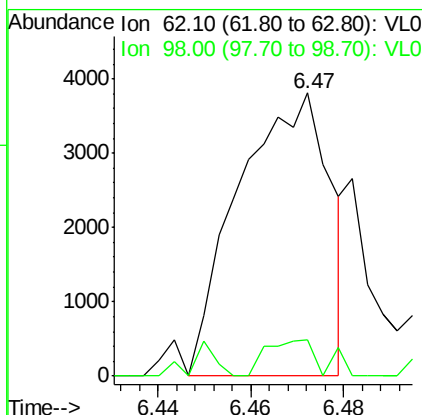
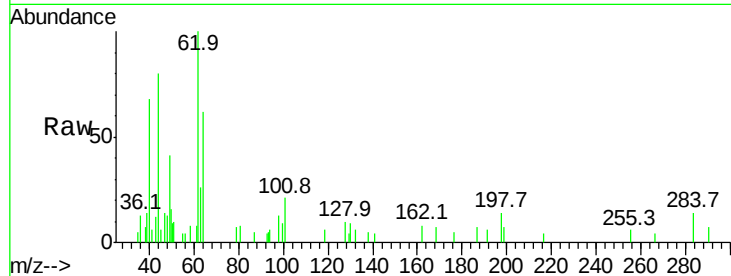




#37
1,2-Dichloroethane
Concen: 0.021 ppbv
RT: 6.47 min Scan# 1675
Delta R.T. -0.02 min
Lab File: VL032353.D
Acq: 15 Aug 2018 13:15

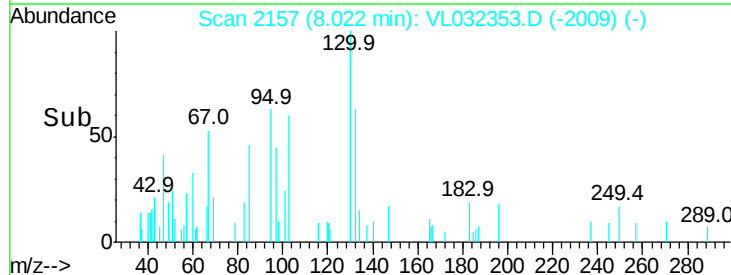
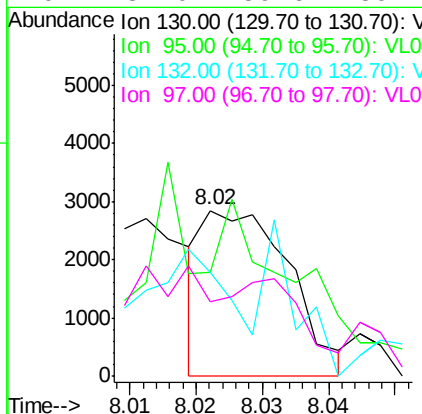
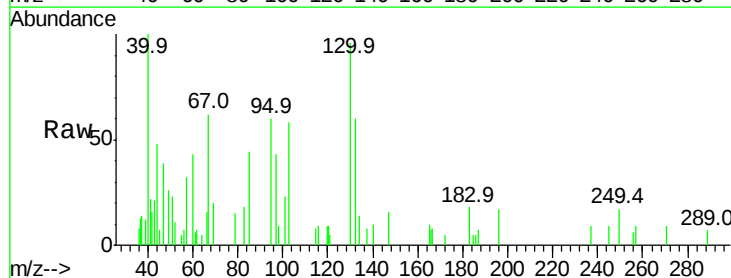
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

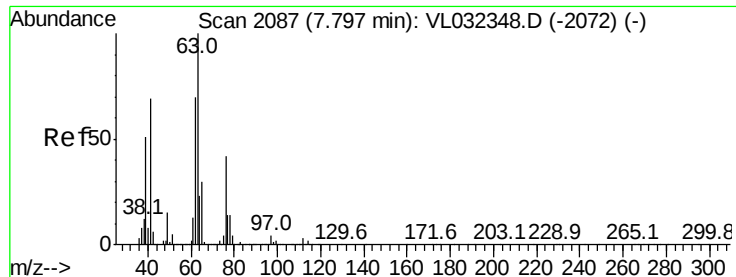
Tgt Ion: 62 Resp: 5218
Ion Ratio Lower Upper
62 100
98 10.9 5.1 7.7#



#38
Trichloroethene
Concen: 0.016 ppbv
RT: 8.02 min Scan# 2157
Delta R.T. -0.02 min
Lab File: VL032353.D
Acq: 15 Aug 2018 13:15

Tgt Ion: 130 Resp: 2575
Ion Ratio Lower Upper
130 100
95 31.2 92.9 139.3#
132 74.2 73.0 109.4
97 37.0 59.6 89.4#





#39

1,2-Dichloropropane

Concen: 6.199 ppbv

RT: 7.35 min Scan# 1948

Delta R.T. -0.47 min

Lab File: VL032353.D

Acq: 15 Aug 2018 13:15

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

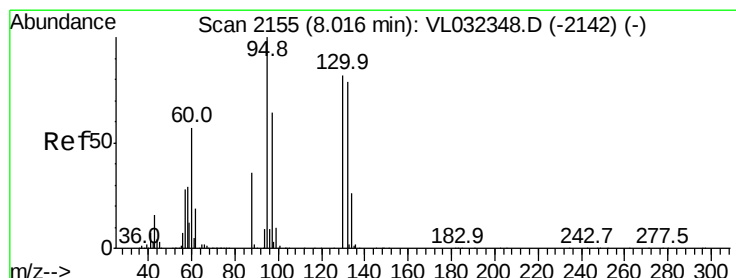
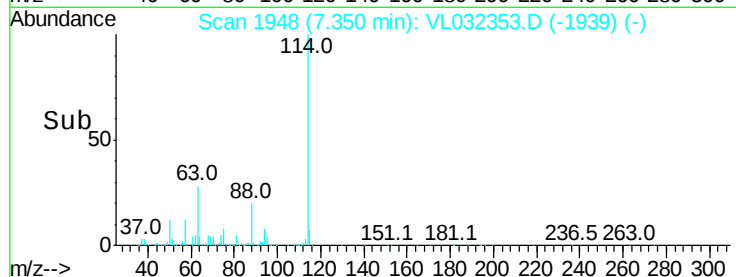
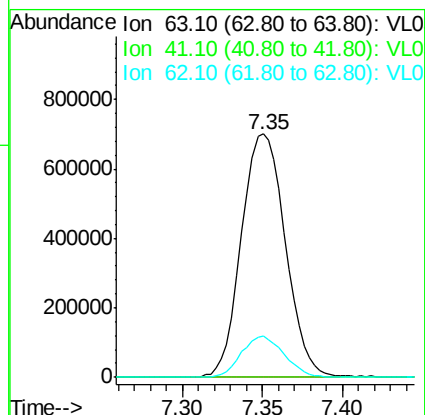
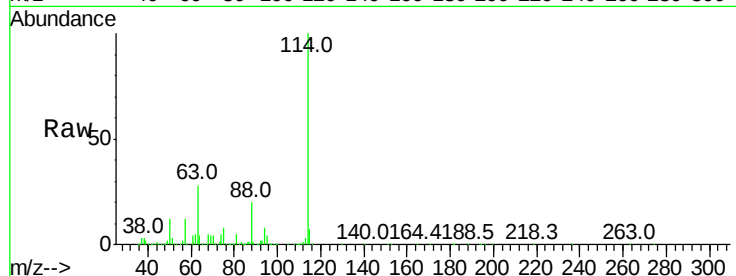
Tgt Ion: 63 Resp: 1314346

Ion Ratio Lower Upper

63 100

41 0.1 52.5 78.7#

62 16.8 54.6 81.8#



#40

1,4-Dioxane

Concen: 0.002 ppbv

RT: 8.01 min Scan# 2152

Delta R.T. -0.04 min

Lab File: VL032353.D

Acq: 15 Aug 2018 13:15

Tgt Ion: 88 Resp: 125

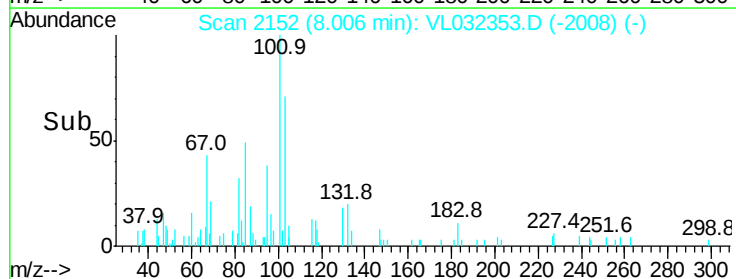
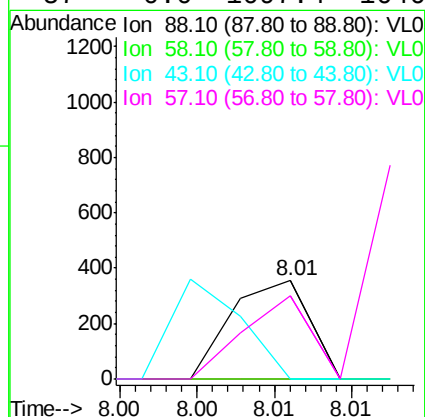
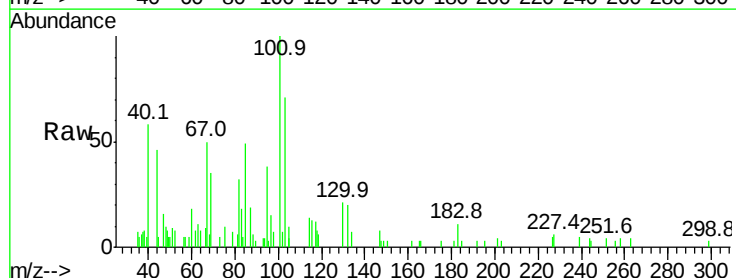
Ion Ratio Lower Upper

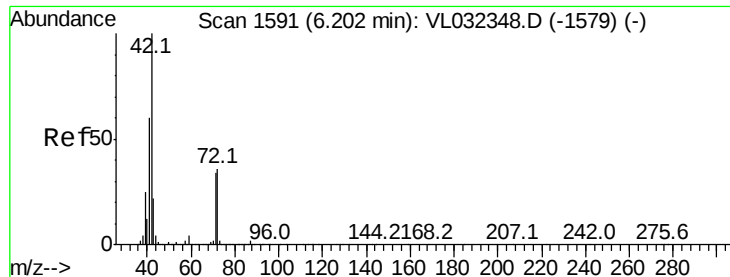
88 100

58 0.0 120.5 180.7#

43 0.0 246.2 369.2#

57 0.0 1097.4 1646.2#





#41

Tetrahydrofuran

Concen: 0.003 ppbv

RT: 6.22 min Scan# 1597

Delta R.T. -0.00 min

Lab File: VL032353.D

Acq: 15 Aug 2018 13:15

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

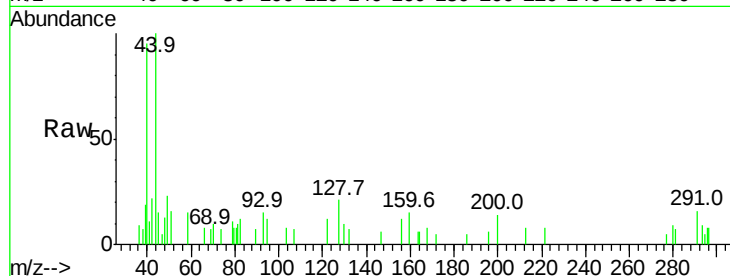
Tgt Ion: 42 Resp: 469

Ion Ratio Lower Upper

42 100

72 0.0 28.6 42.8#

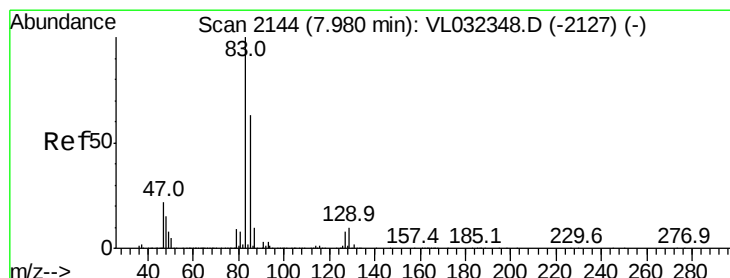
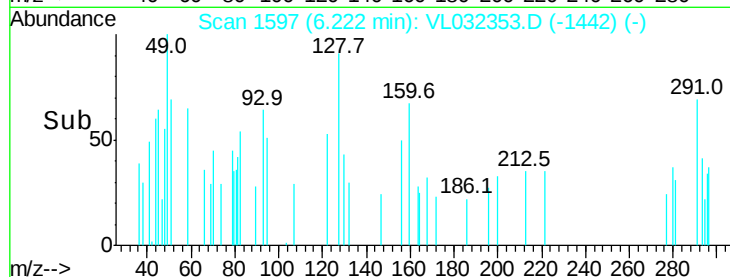
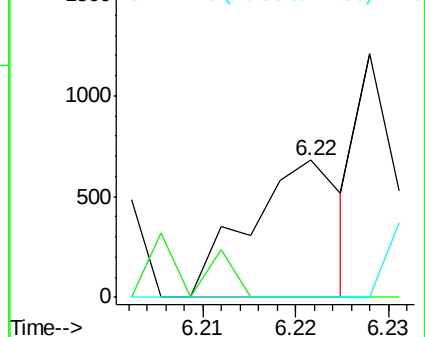
71 0.0 27.8 41.6#



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: 0.012 ppbv

RT: 7.97 min Scan# 2142

Delta R.T. -0.03 min

Lab File: VL032353.D

Acq: 15 Aug 2018 13:15

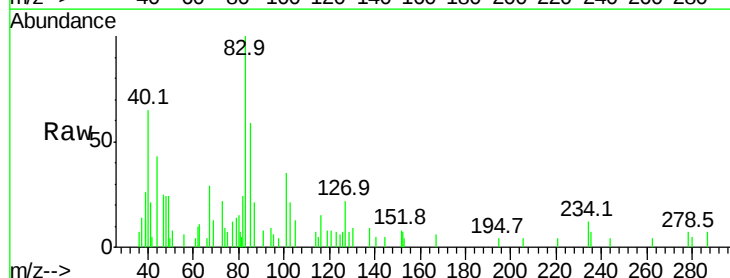
Tgt Ion: 83 Resp: 4837

Ion Ratio Lower Upper

83 100

85 48.6 50.7 76.1#

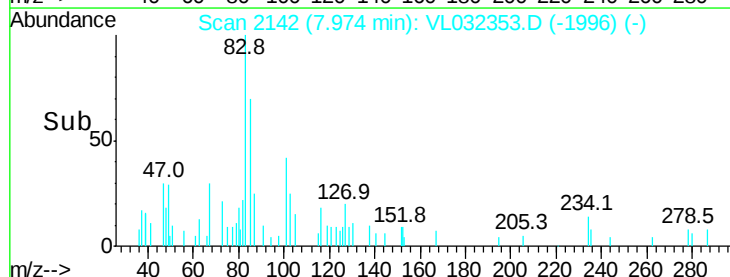
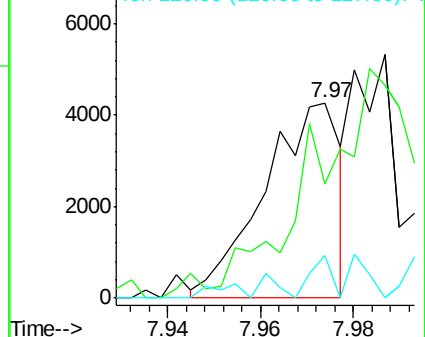
127 22.9 6.0 9.0#

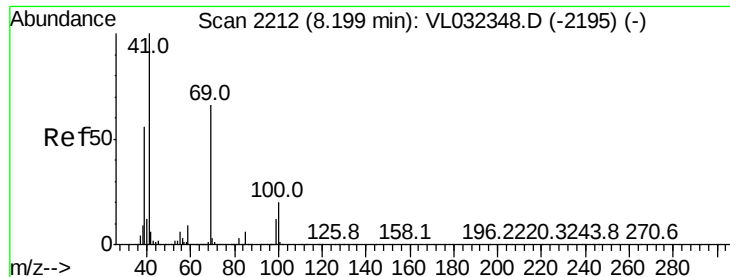


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V

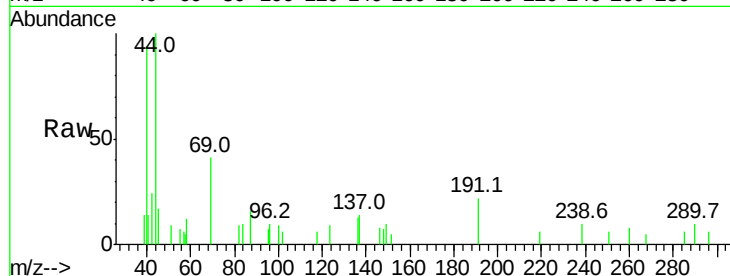




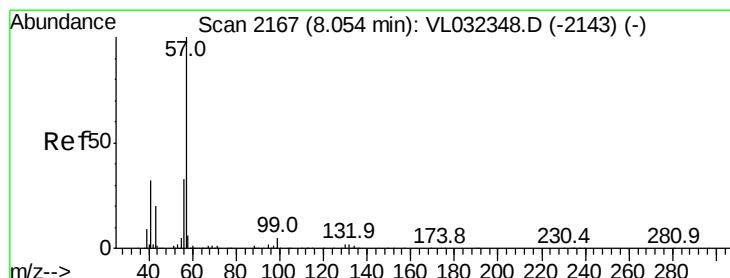
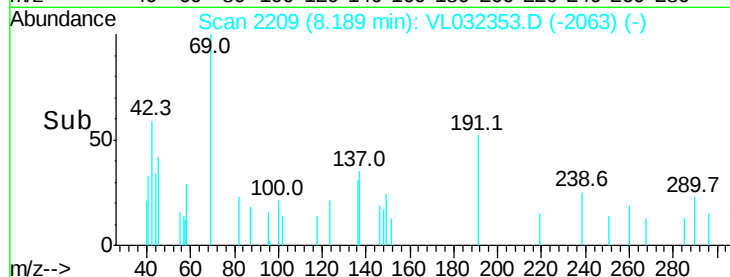
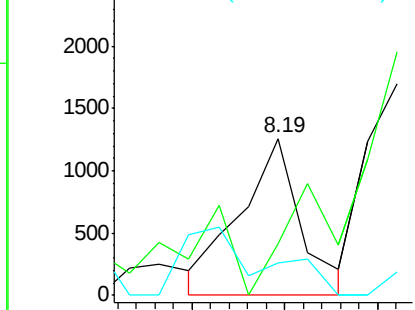
#43
Methyl Methacrylate
Concen: 0.003 ppbv
RT: 8.19 min Scan# 2209
Delta R.T. -0.03 min
Lab File: VL032353.D
Acq: 15 Aug 2018 13:15

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

Tgt Ion: 69 Resp: 579
Ion Ratio Lower Upper
69 100
41 0.0 120.6 180.8#
100 0.0 23.2 34.8#

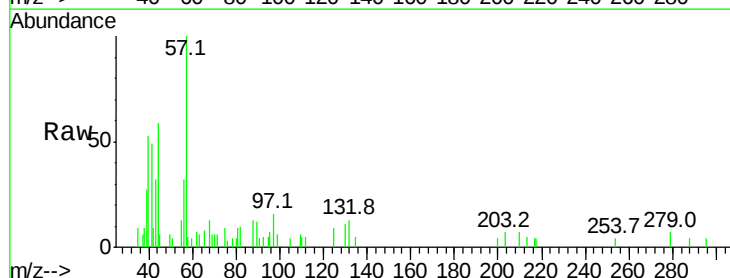


Abundance Ion 69.10 (68.80 to 69.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 100.10 (99.80 to 100.80): VL0

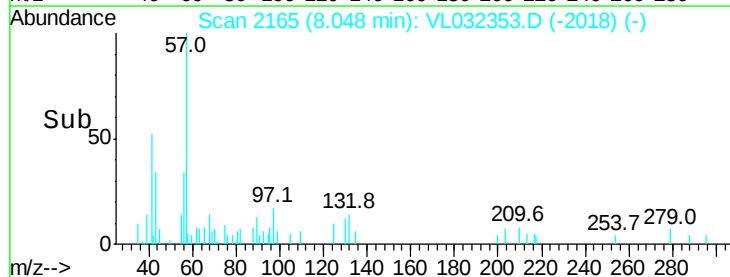
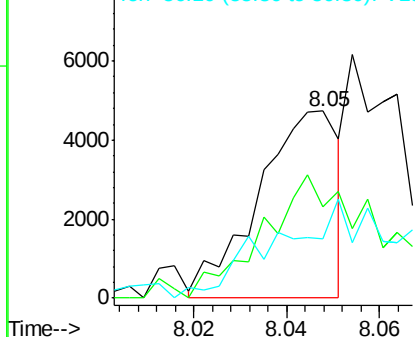


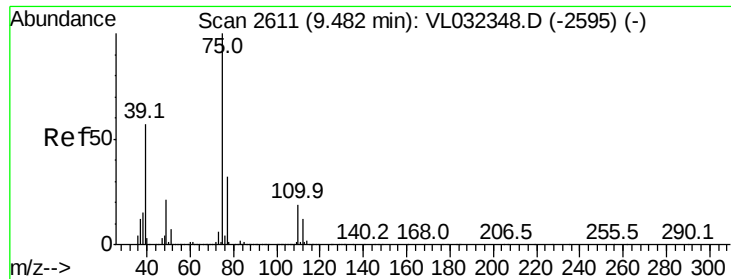
#44
2,2,4-Trimethylpentane
Concen: 0.006 ppbv
RT: 8.05 min Scan# 2165
Delta R.T. -0.03 min
Lab File: VL032353.D
Acq: 15 Aug 2018 13:15

Tgt Ion: 57 Resp: 5698
Ion Ratio Lower Upper
57 100
41 110.8 24.3 36.5#
56 0.0 25.4 38.2#



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

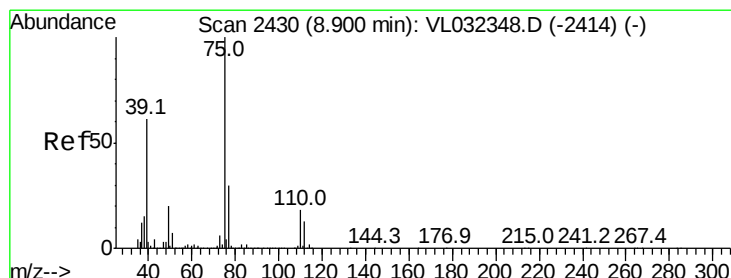
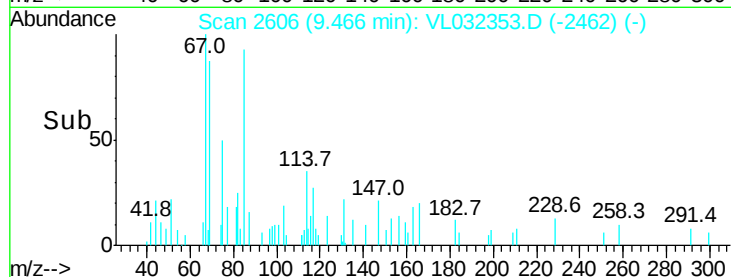
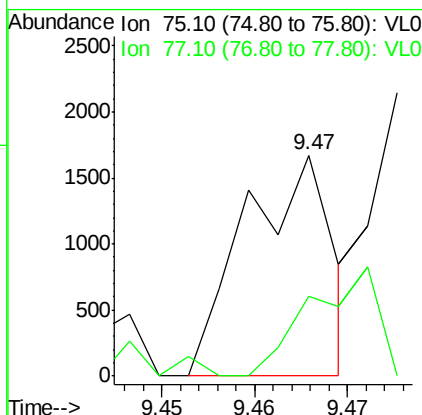
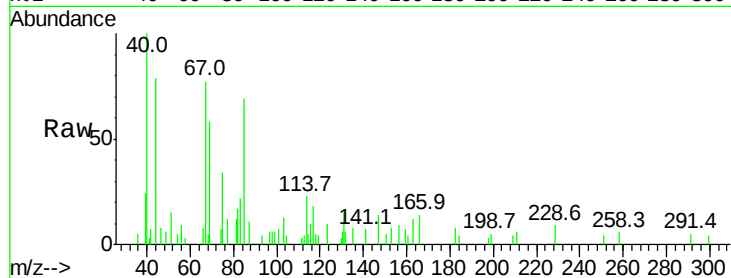




#45
 t-1,3-Dichloropropene
 Concen: 0.005 ppbv
 RT: 9.47 min Scan# 2606
 Delta R.T. -0.04 min
 Lab File: VL032353.D
 Acq: 15 Aug 2018 13:15

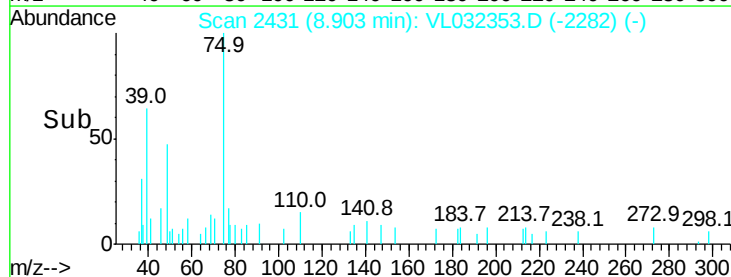
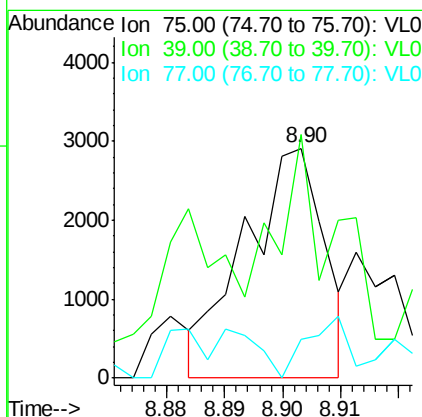
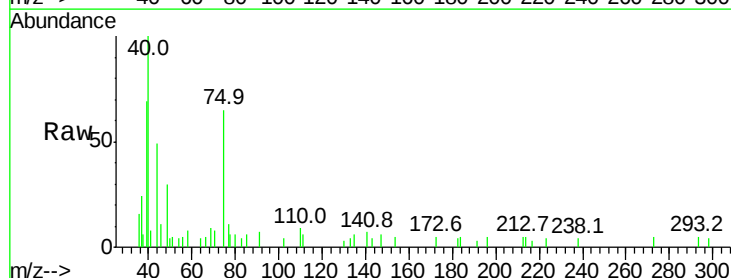
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

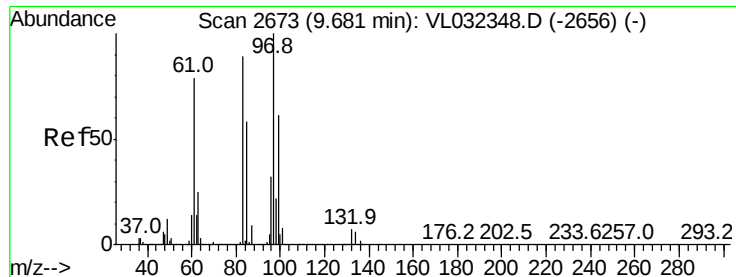
Tgt Ion: 75 Resp: 1091
 Ion Ratio Lower Upper
 75 100
 77 36.2 26.2 39.4



#46
 cis-1,3-Dichloropropene
 Concen: 0.010 ppbv
 RT: 8.90 min Scan# 2431
 Delta R.T. -0.02 min
 Lab File: VL032353.D
 Acq: 15 Aug 2018 13:15

Tgt Ion: 75 Resp: 2759
 Ion Ratio Lower Upper
 75 100
 39 47.4 50.9 76.3#
 77 5.4 25.7 38.5#





#47

1,1,2-Trichloroethane

Concen: 0.008 ppbv

RT: 9.67 min Scan# 2669

Delta R.T. -0.03 min

Lab File: VL032353.D

Acq: 15 Aug 2018 13:15

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

Tgt Ion: 97 Resp: 1657

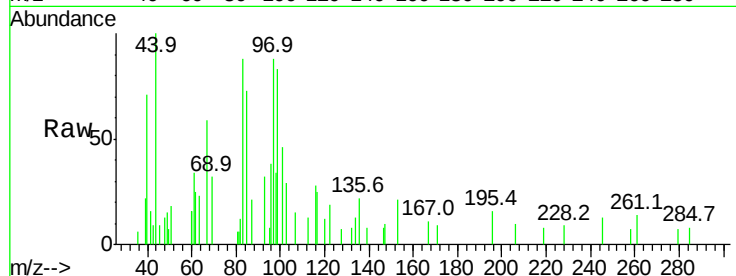
Ion Ratio Lower Upper

97 100

83 85.9 73.0 109.6

85 57.1 48.1 72.1

99 94.0 48.5 72.7#

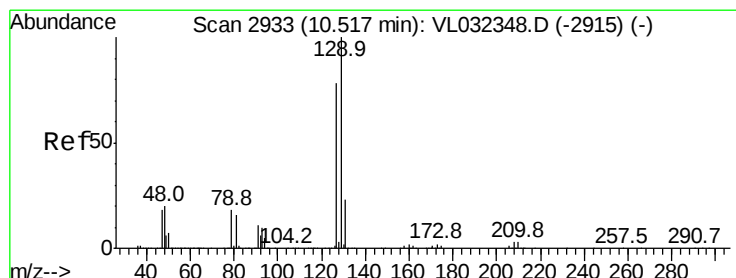
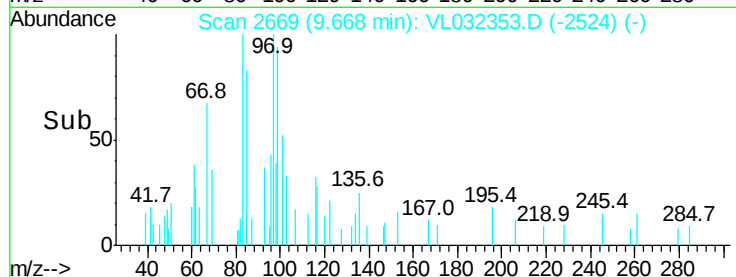
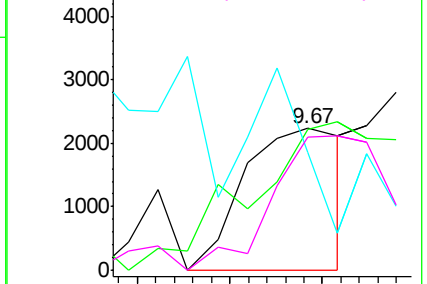


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 0.001 ppbv

RT: 10.78 min Scan# 3016

Delta R.T. 0.24 min

Lab File: VL032353.D

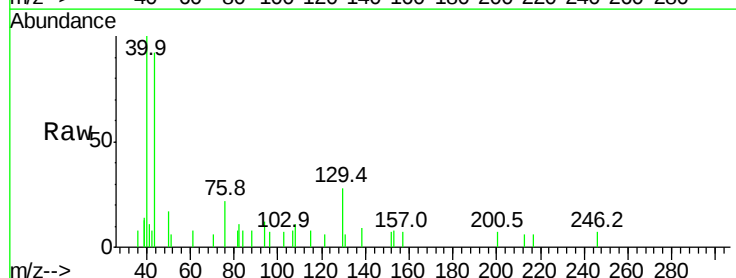
Acq: 15 Aug 2018 13:15

Tgt Ion: 129 Resp: 229

Ion Ratio Lower Upper

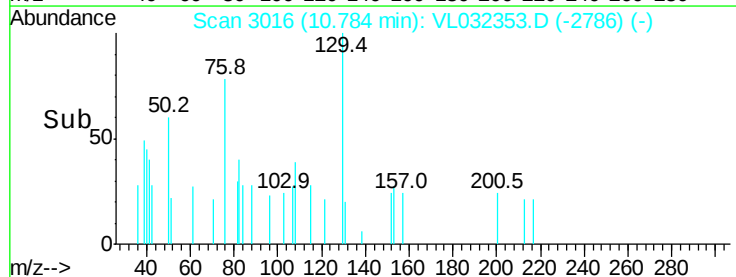
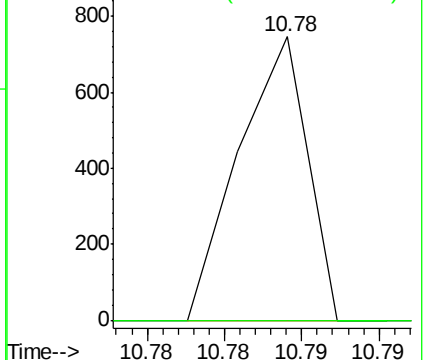
129 100

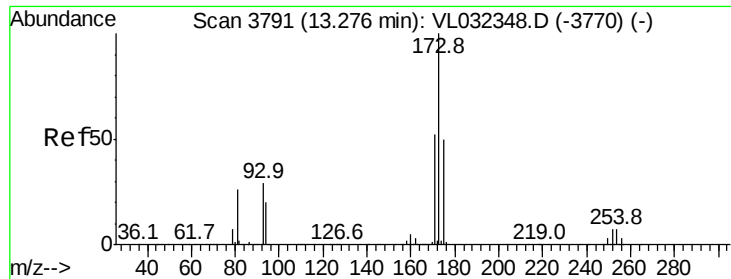
127 68.6 39.5 118.3



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 0.011 ppbv

RT: 13.26 min Scan# 3787

Delta R.T. -0.03 min

Lab File: VL032353.D

Acq: 15 Aug 2018 13:15

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

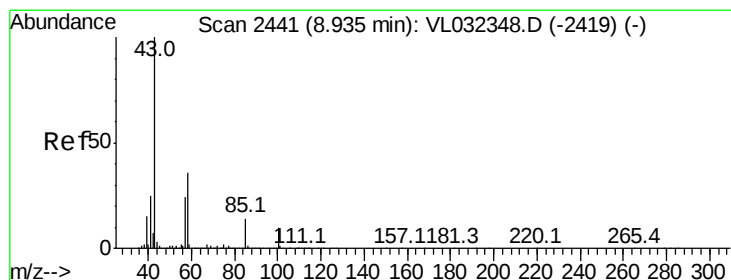
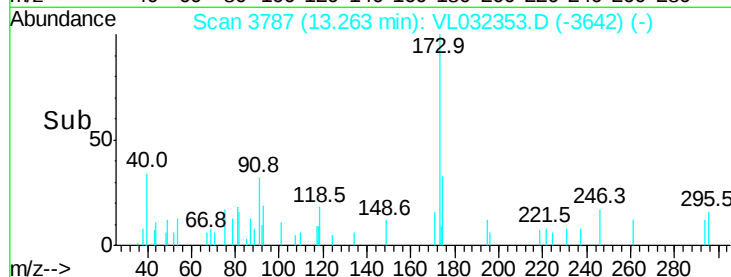
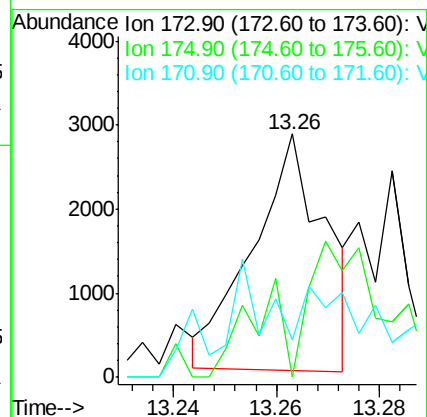
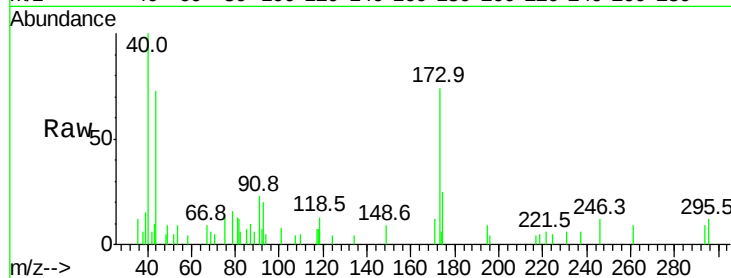
Tgt Ion:173 Resp: 2723

Ion Ratio Lower Upper

173 100

175 83.4 38.9 58.3#

171 97.9 42.2 63.2#



#50

4-Methyl-2-Pentanone

Concen: 0.000 ppbv

RT: 8.93 min Scan# 2439

Delta R.T. -0.03 min

Lab File: VL032353.D

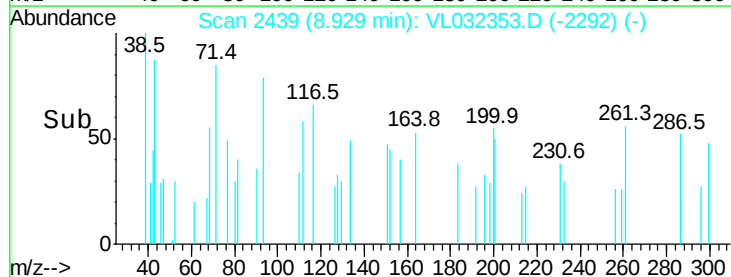
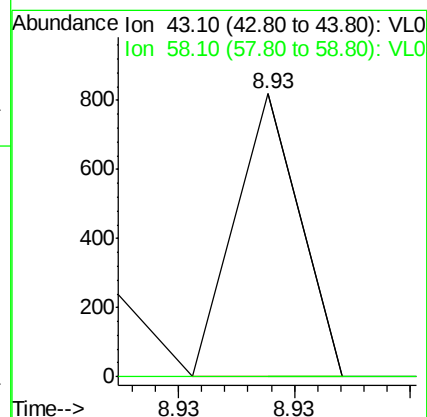
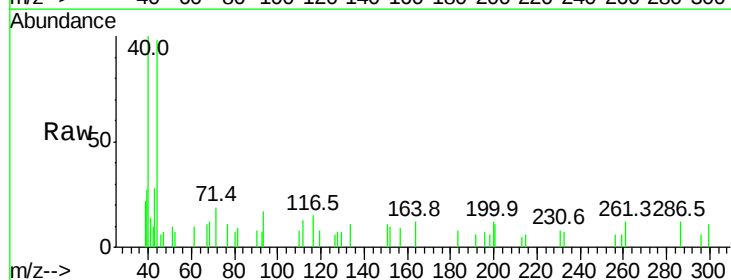
Acq: 15 Aug 2018 13:15

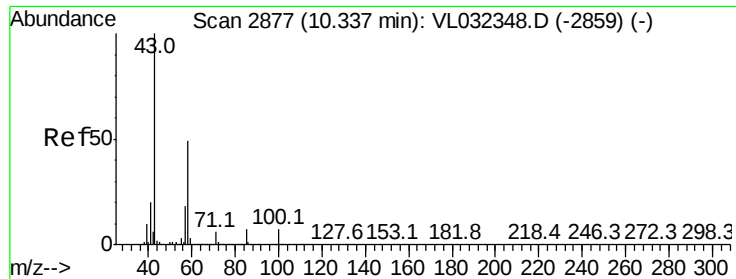
Tgt Ion: 43 Resp: 158

Ion Ratio Lower Upper

43 100

58 0.0 28.9 43.3#

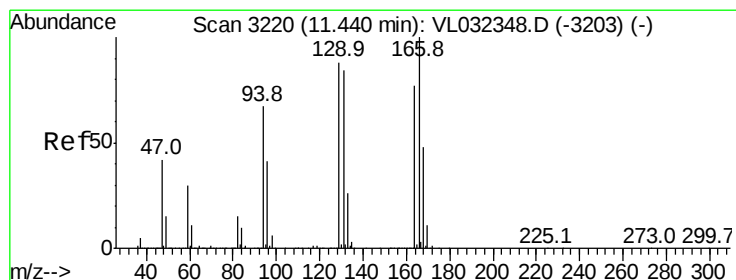
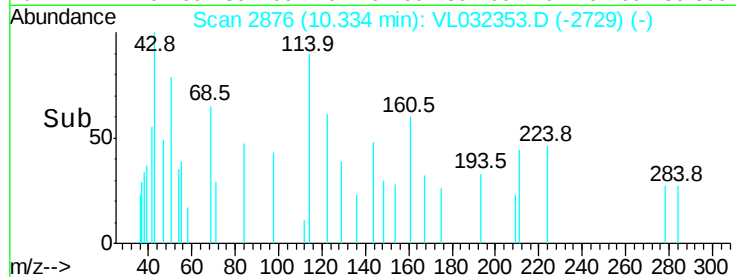
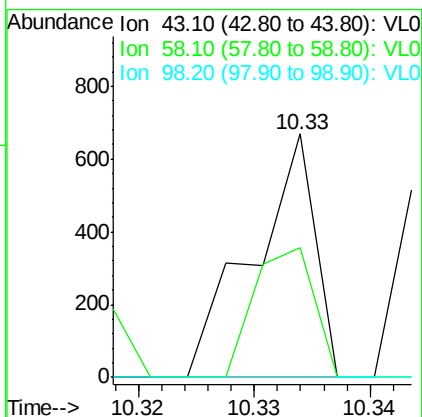
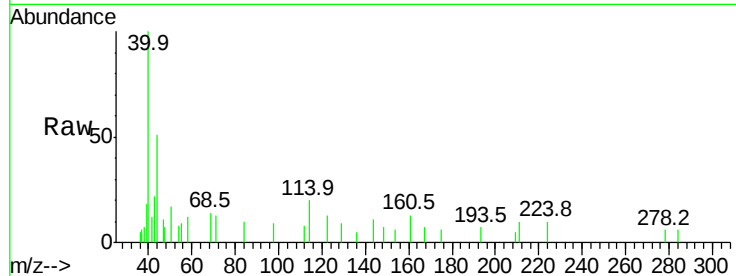




#51
2-Hexanone
Concen: 0.001 ppbv
RT: 10.33 min Scan# 2876
Delta R.T. -0.03 min
Lab File: VL032353.D
Acq: 15 Aug 2018 13:15

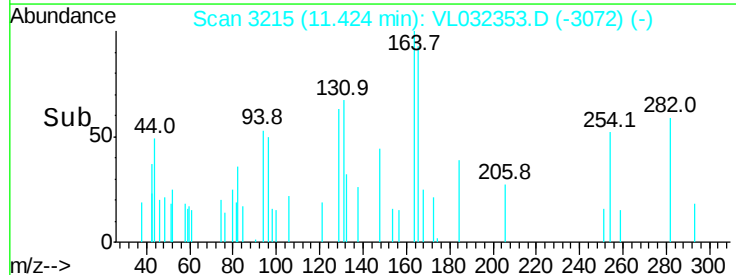
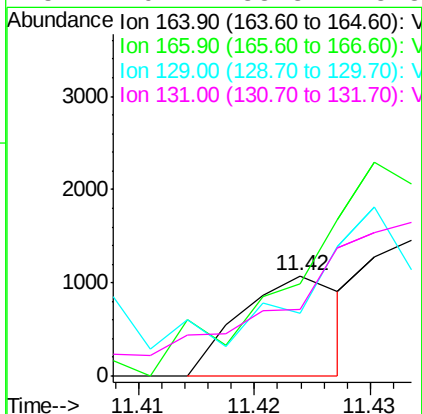
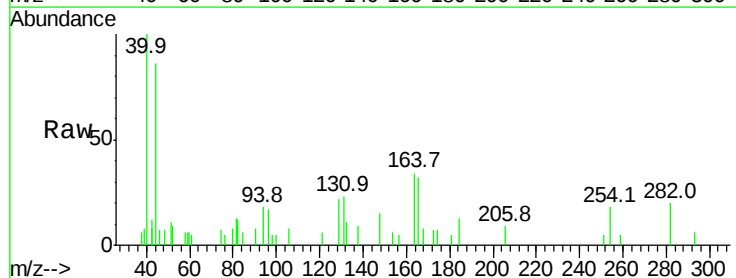
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

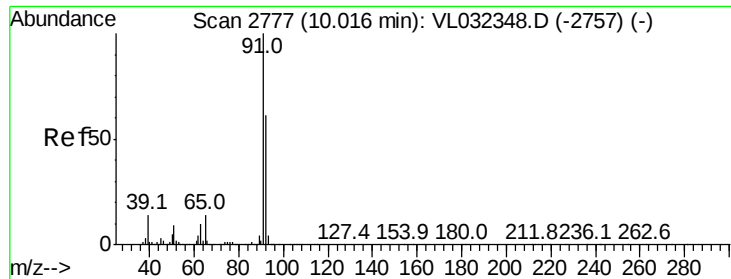
Tgt Ion: 43 Resp: 249
Ion Ratio Lower Upper
43 100
58 66.3 39.1 58.7#
98 0.0 0.3 0.5#



#52
Tetrachloroethene
Concen: 0.005 ppbv
RT: 11.42 min Scan# 3215
Delta R.T. -0.04 min
Lab File: VL032353.D
Acq: 15 Aug 2018 13:15

Tgt Ion: 164 Resp: 655
Ion Ratio Lower Upper
164 100
166 35.9 100.0 150.0#
129 6.9 87.9 131.9#
131 26.4 83.8 125.8#





#53

Toluene

Concen: 0.004 ppbv

RT: 10.00 min Scan# 2773

Delta R.T. -0.03 min

Lab File: VL032353.D

Acq: 15 Aug 2018 13:15

Instrument :

MSVOA_L

ClientSampleId :

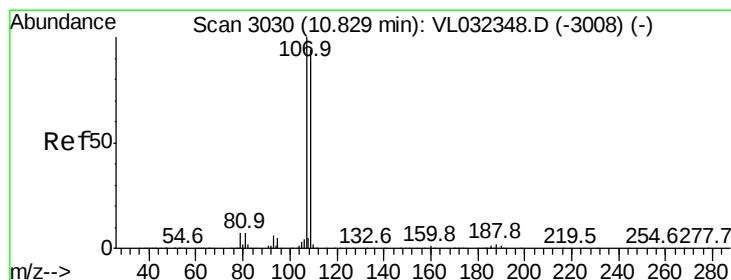
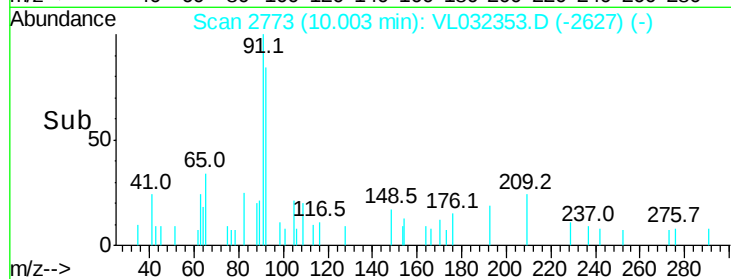
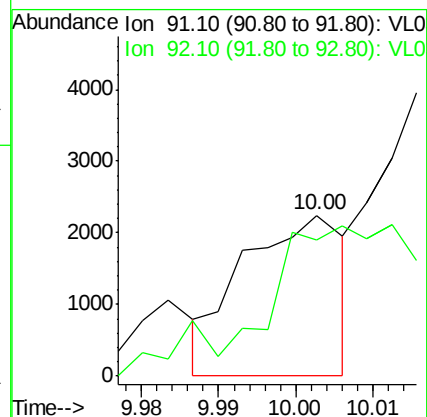
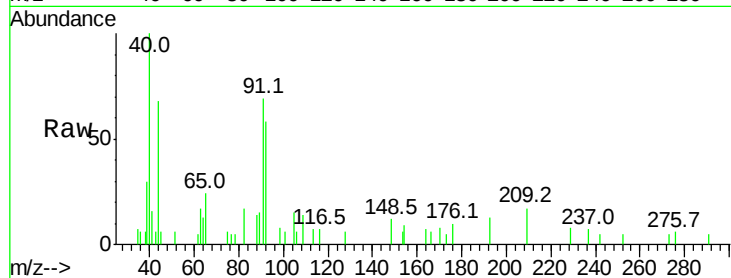
VSTDIC0.03

Tgt Ion: 91 Resp: 2040

Ion Ratio Lower Upper

91 100

92 0.0 48.6 72.8#



#54

1,2-Dibromoethane

Concen: 0.008 ppbv

RT: 10.82 min Scan# 3028

Delta R.T. -0.03 min

Lab File: VL032353.D

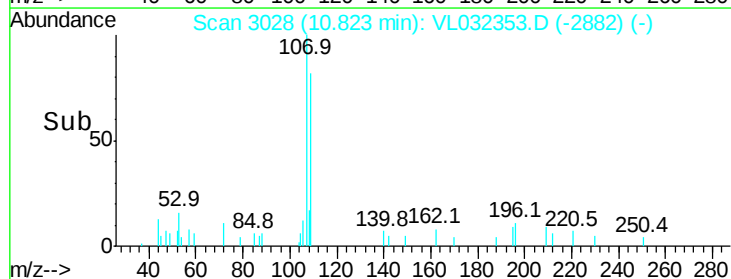
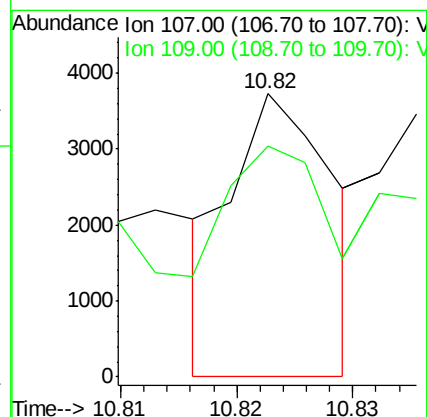
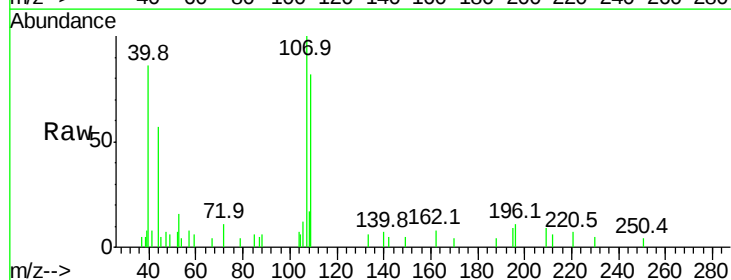
Acq: 15 Aug 2018 13:15

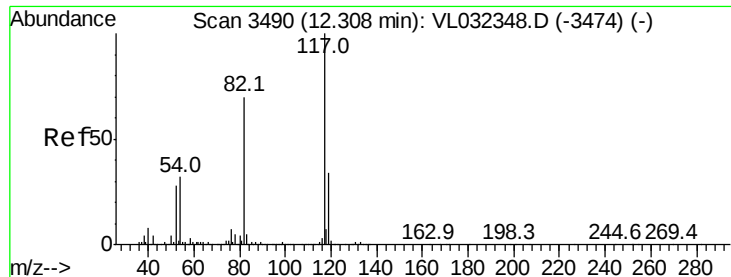
Tgt Ion: 107 Resp: 2253

Ion Ratio Lower Upper

107 100

109 104.2 74.1 111.1





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.30 min Scan# 3489

Delta R.T. -0.02 min

Lab File: VL032353.D

Acq: 15 Aug 2018 13:15

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

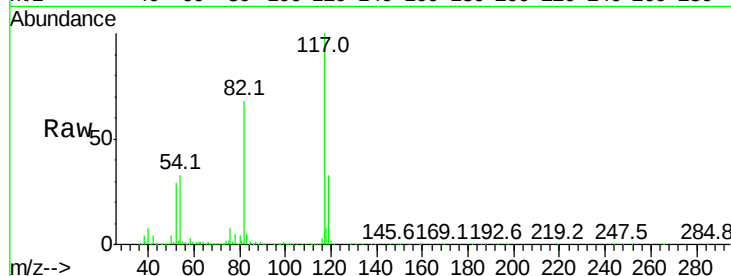
Tgt Ion:117 Resp: 4537005

Ion Ratio Lower Upper

117 100

82 68.6 52.6 78.8

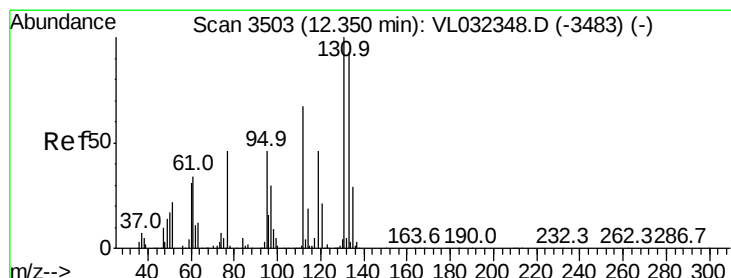
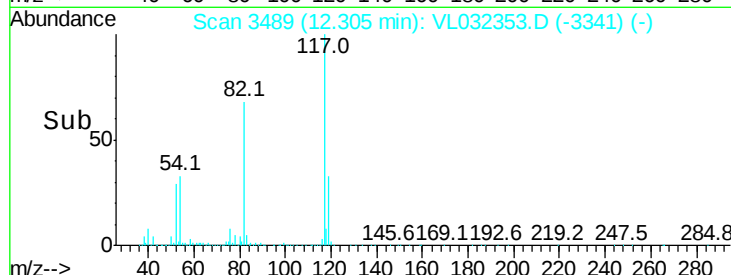
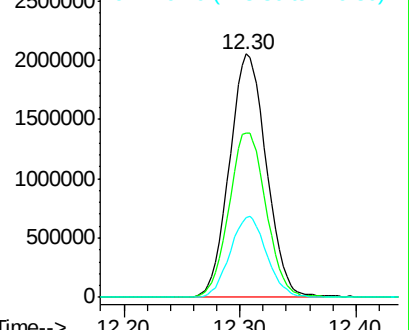
119 32.9 25.7 38.5



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 0.008 ppbv

RT: 12.34 min Scan# 3501

Delta R.T. -0.03 min

Lab File: VL032353.D

Acq: 15 Aug 2018 13:15

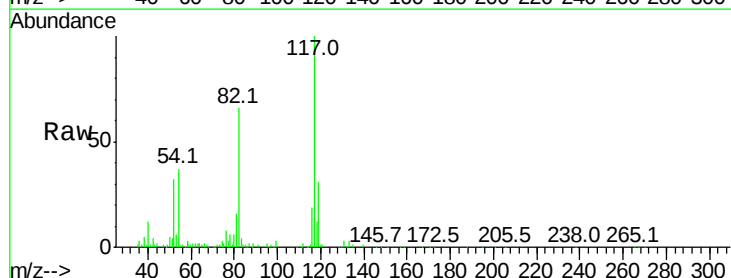
Tgt Ion:131 Resp: 1582

Ion Ratio Lower Upper

131 100

133 0.0 75.8 113.6#

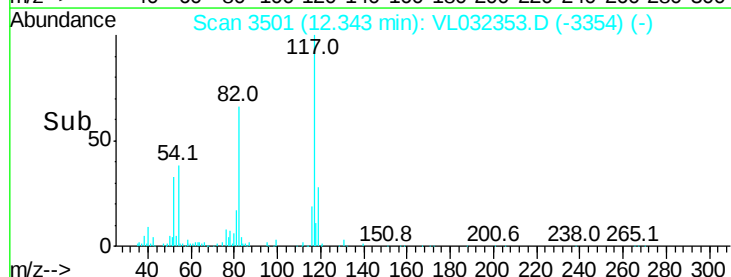
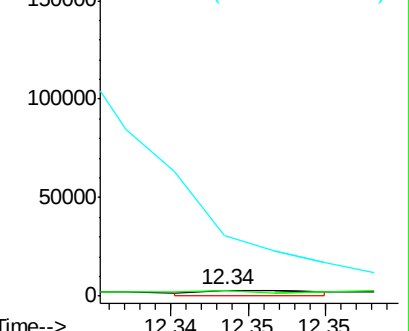
119 0.0 48.1 72.1#

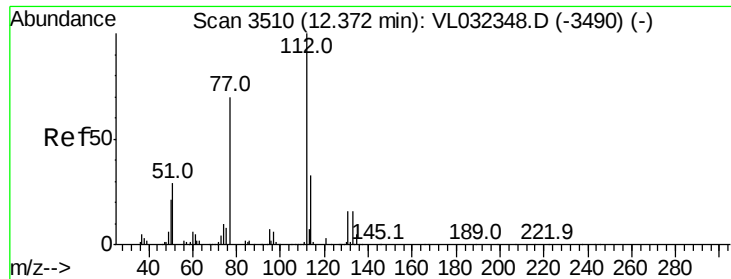


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V

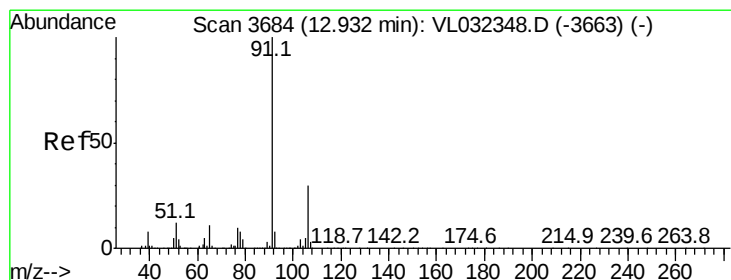
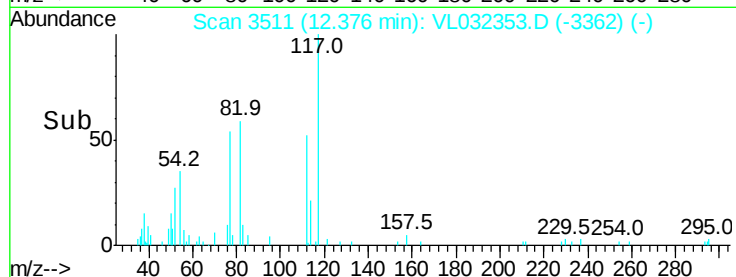
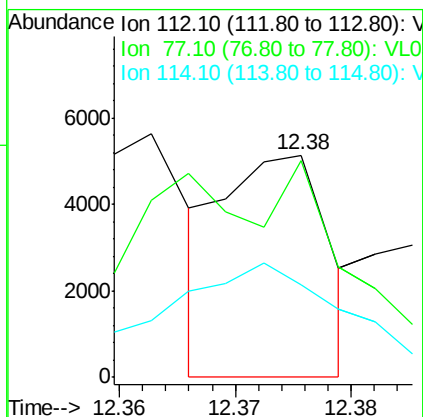
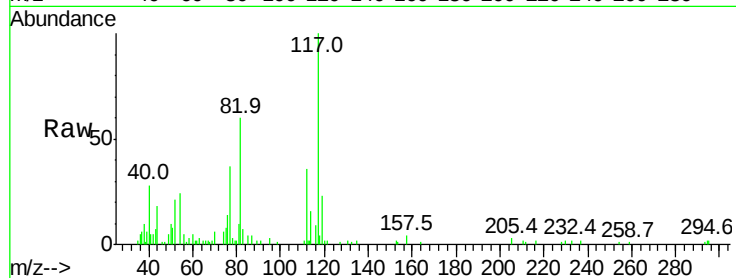




#57
Chlorobenzene
Concen: 0.009 ppbv
RT: 12.38 min Scan# 3511
Delta R.T. -0.02 min
Lab File: VL032353.D
Acq: 15 Aug 2018 13:15

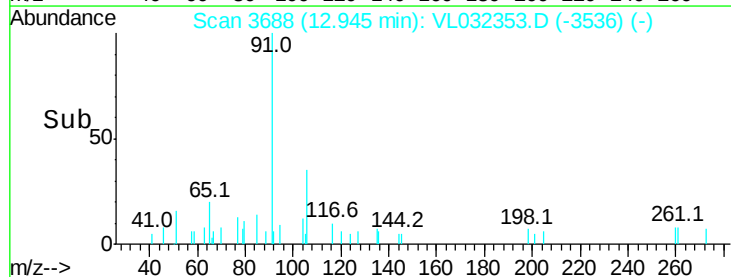
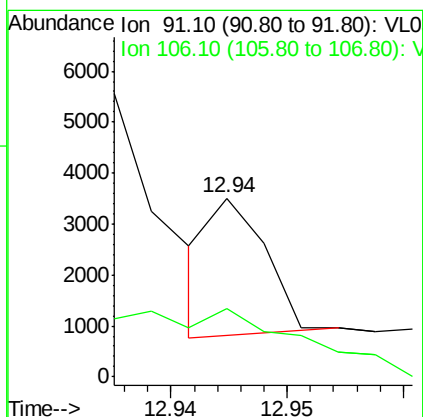
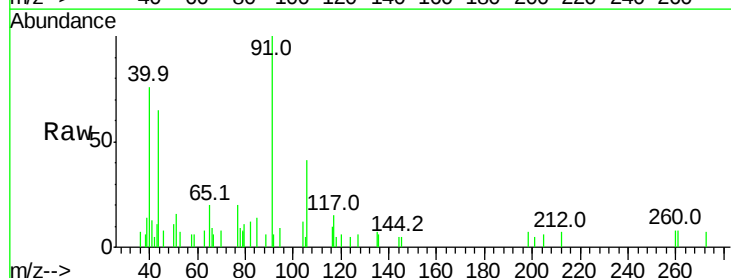
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

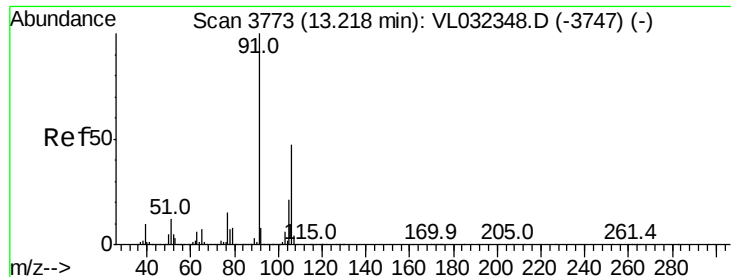
Tgt Ion: 112 Resp: 3245
Ion Ratio Lower Upper
112 100
77 121.1 56.5 84.7#
114 27.8 28.4 34.7#



#58
Ethyl Benzene
Concen: 0.002 ppbv
RT: 12.94 min Scan# 3688
Delta R.T. -0.01 min
Lab File: VL032353.D
Acq: 15 Aug 2018 13:15

Tgt Ion: 91 Resp: 888
Ion Ratio Lower Upper
91 100
106 33.5 25.0 37.4

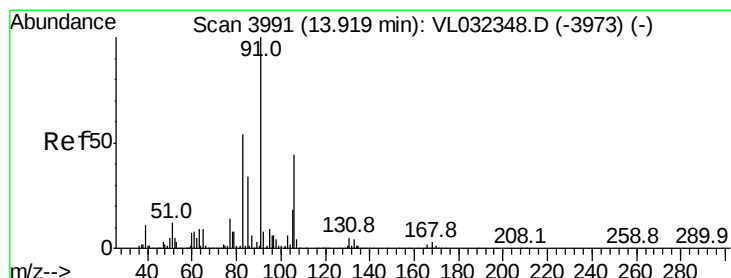
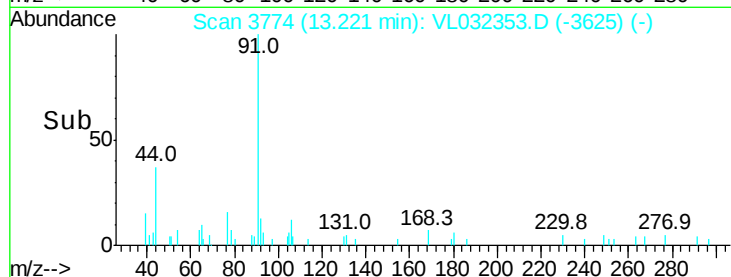
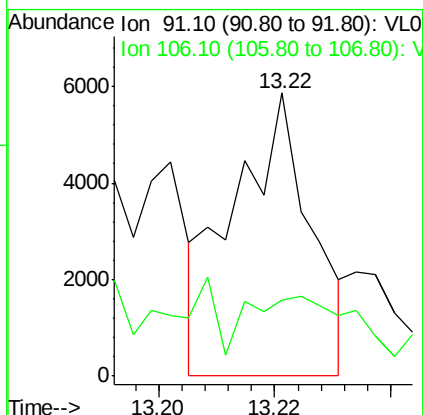
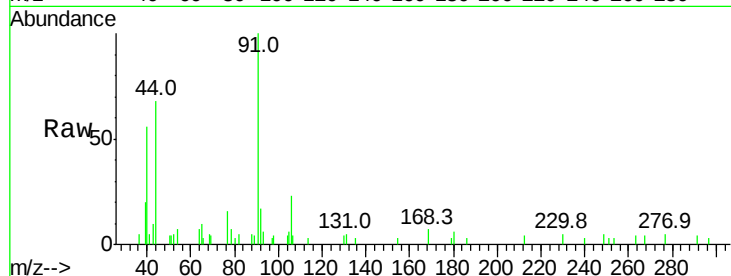




#59
m/p-Xylene
Concen: 0.011 ppbv
RT: 13.22 min Scan# 3774
Delta R.T. -0.02 min
Lab File: VL032353.D
Acq: 15 Aug 2018 13:15

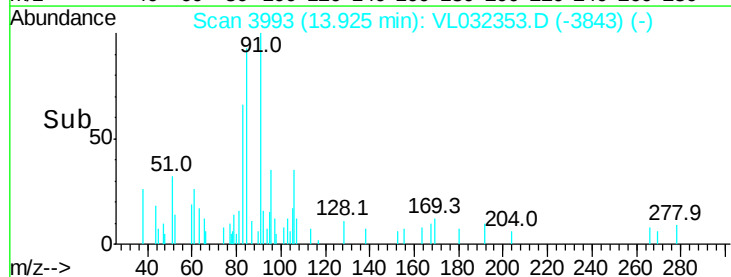
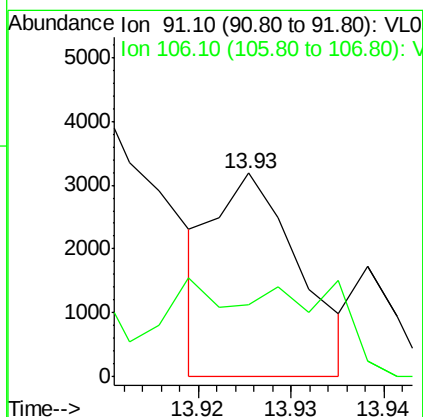
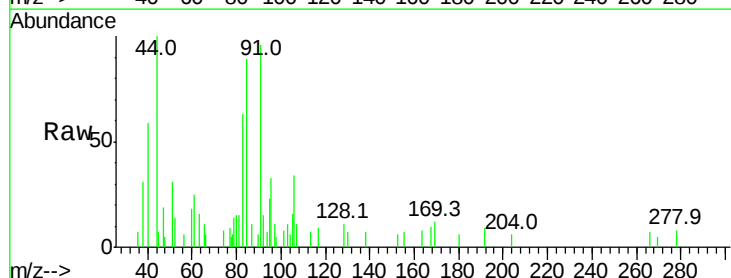
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

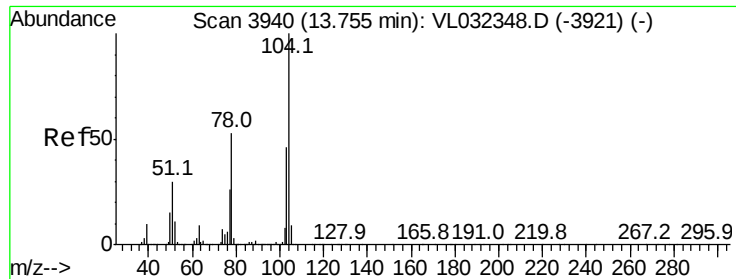
Tgt Ion: 91 Resp: 5435
Ion Ratio Lower Upper
91 100
106 0.0 36.4 54.6#



#60
o-Xylene
Concen: 0.004 ppbv
RT: 13.93 min Scan# 3993
Delta R.T. -0.02 min
Lab File: VL032353.D
Acq: 15 Aug 2018 13:15

Tgt Ion: 91 Resp: 2031
Ion Ratio Lower Upper
91 100
106 160.8 22.4 67.0#





#61

Styrene

Concen: 0.005 ppbv

RT: 13.76 min Scan# 3940

Delta R.T. -0.02 min

Lab File: VL032353.D

Acq: 15 Aug 2018 13:15

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

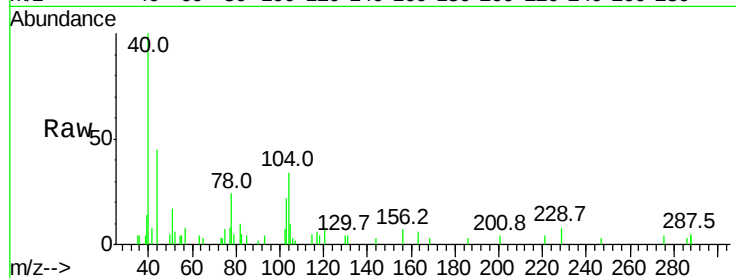
Tgt Ion:104 Resp: 1725

Ion Ratio Lower Upper

104 100

78 200.6 42.6 63.8#

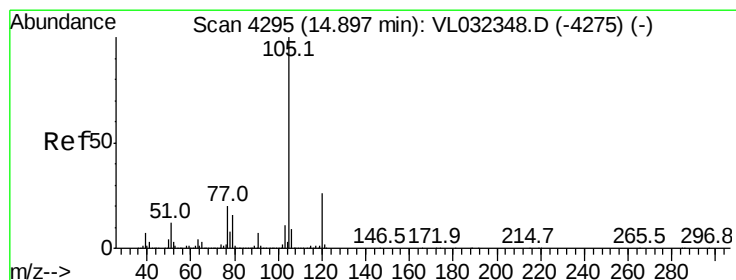
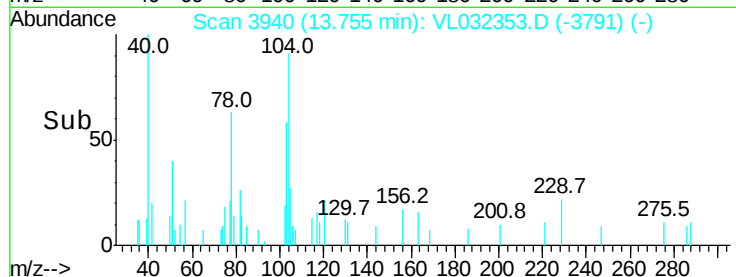
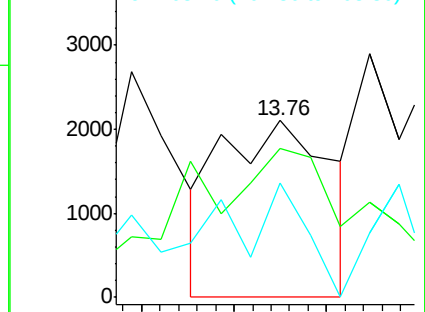
103 124.1 38.0 57.0#



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: 0.004 ppbv

RT: 14.88 min Scan# 4291

Delta R.T. -0.03 min

Lab File: VL032353.D

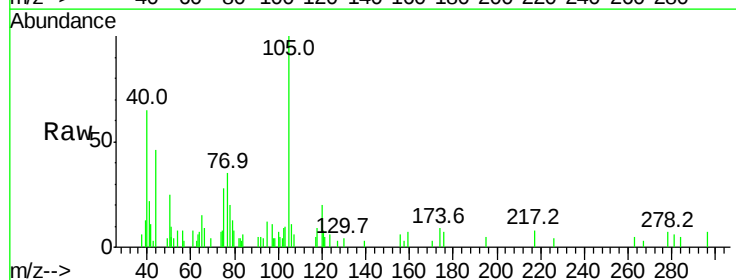
Acq: 15 Aug 2018 13:15

Tgt Ion:105 Resp: 2590

Ion Ratio Lower Upper

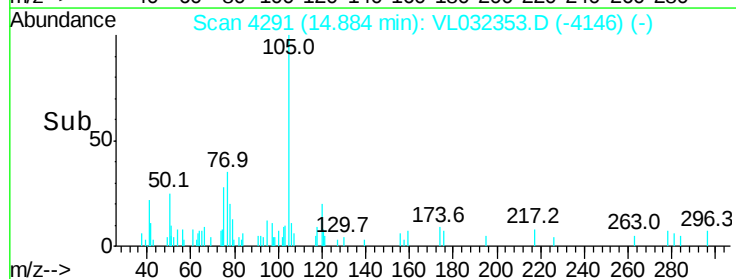
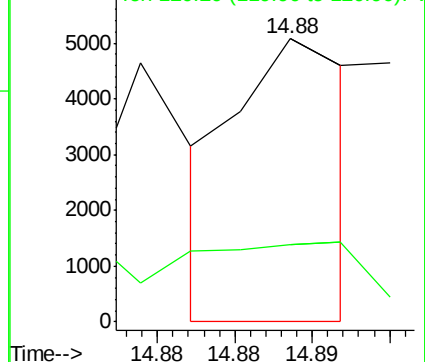
105 100

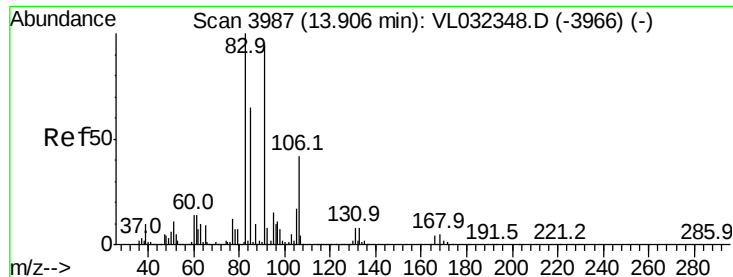
120 0.0 20.4 30.6#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 0.011 ppbv

RT: 13.91 min Scan# 3987

Delta R.T. -0.02 min

Lab File: VL032353.D

Acq: 15 Aug 2018 13:15

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

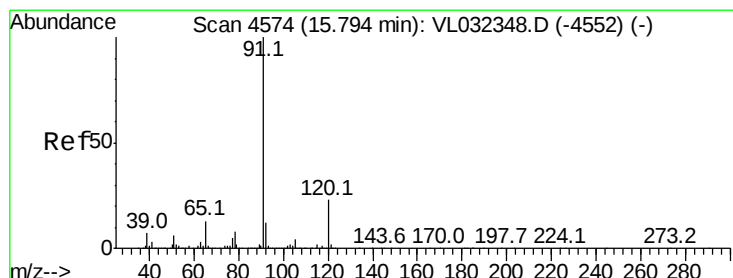
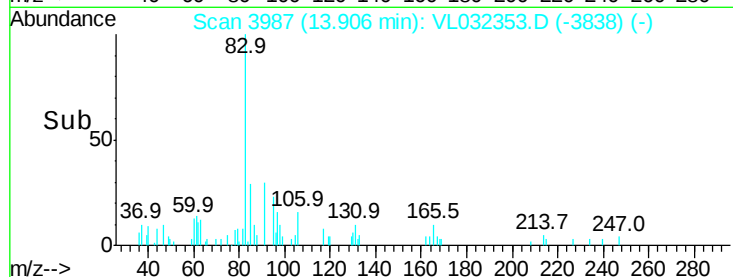
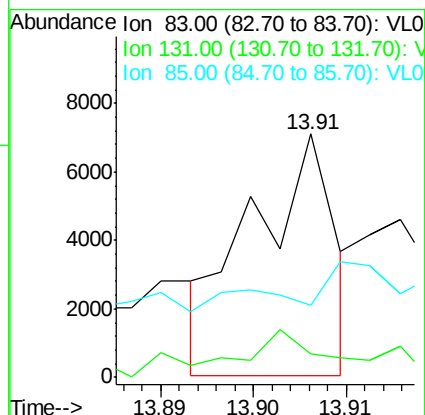
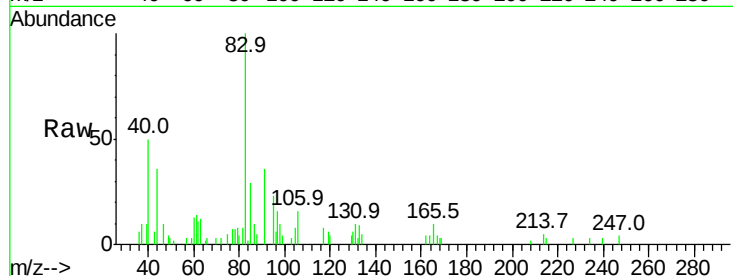
Tgt Ion: 83 Resp: 4380

Ion Ratio Lower Upper

83 100

131 33.2 4.3 12.8#

85 201.4 32.6 97.7#



#64

n-propylbenzene

Concen: 0.005 ppbv

RT: 15.78 min Scan# 4570

Delta R.T. -0.03 min

Lab File: VL032353.D

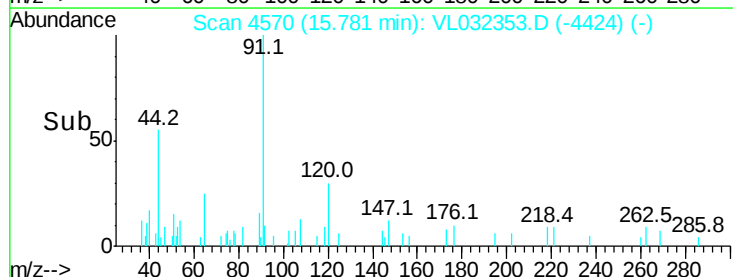
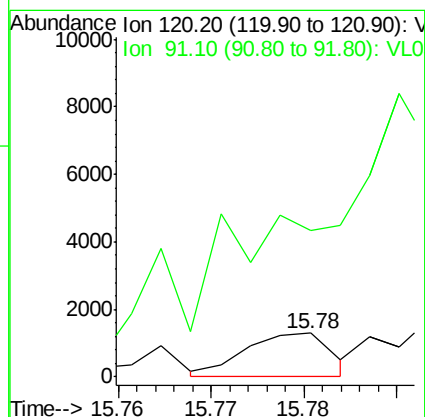
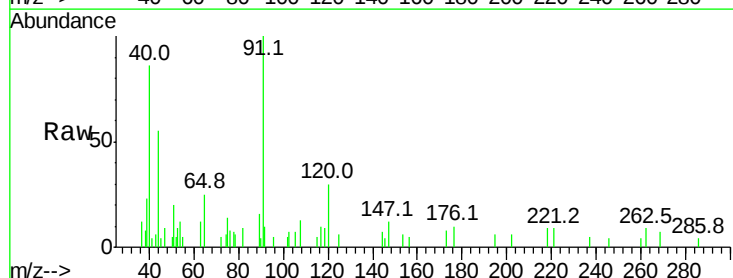
Acq: 15 Aug 2018 13:15

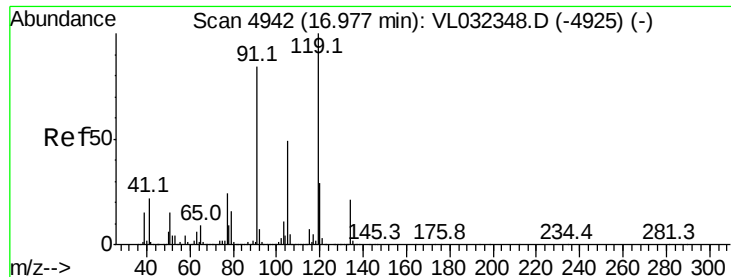
Tgt Ion: 120 Resp: 837

Ion Ratio Lower Upper

120 100

91 0.0 381.8 572.8#





#65

tert-Butylbenzene

Concen: 0.005 ppbv

RT: 16.96 min Scan# 4938

Delta R.T. -0.03 min

Lab File: VL032353.D

Acq: 15 Aug 2018 13:15

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

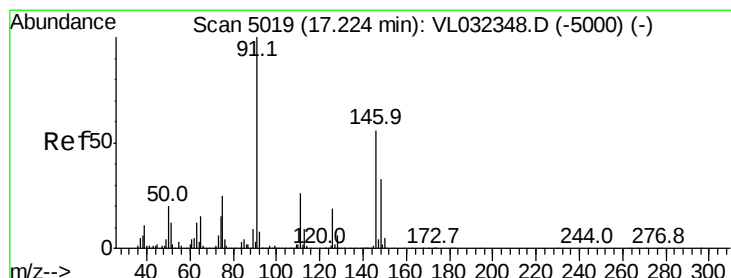
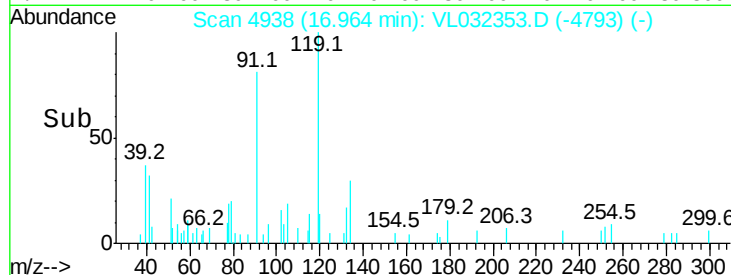
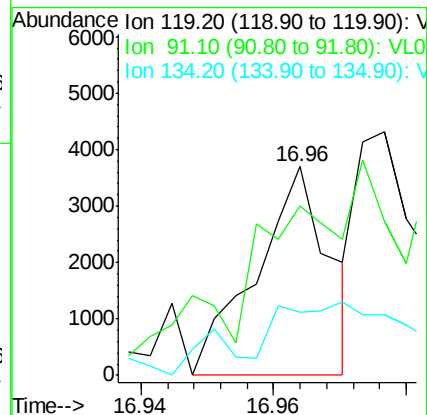
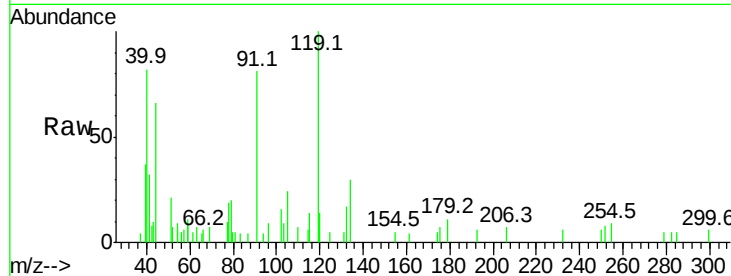
Tgt Ion: 119 Resp: 2821

Ion Ratio Lower Upper

119 100

91 0.0 67.5 101.3#

134 0.0 15.8 23.6#



#66

Benzyl Chloride

Concen: 0.009 ppbv

RT: 17.22 min Scan# 5017

Delta R.T. -0.03 min

Lab File: VL032353.D

Acq: 15 Aug 2018 13:15

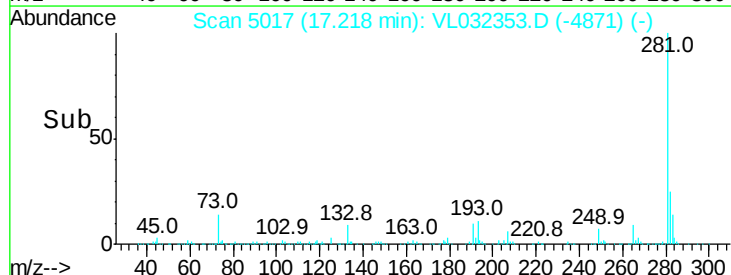
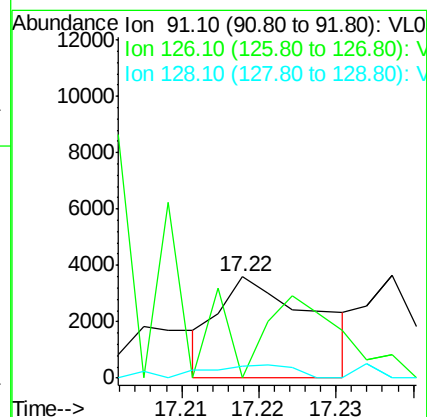
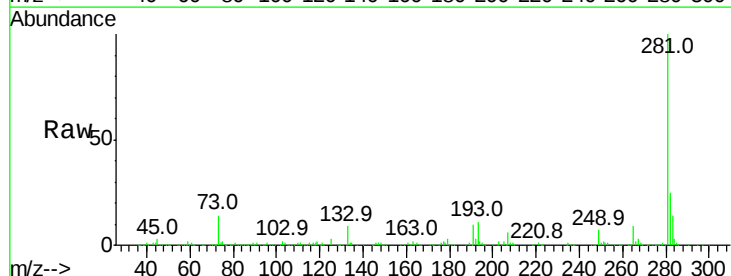
Tgt Ion: 91 Resp: 3092

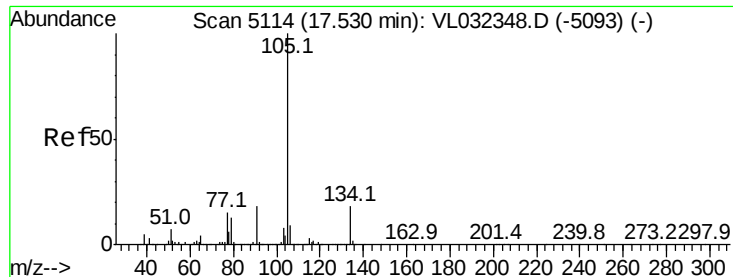
Ion Ratio Lower Upper

91 100

126 0.0 13.7 20.5#

128 0.0 4.3 6.5#

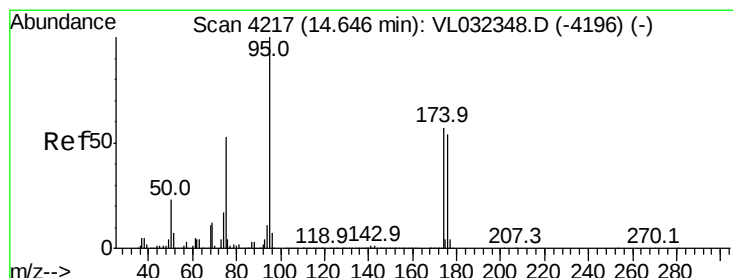
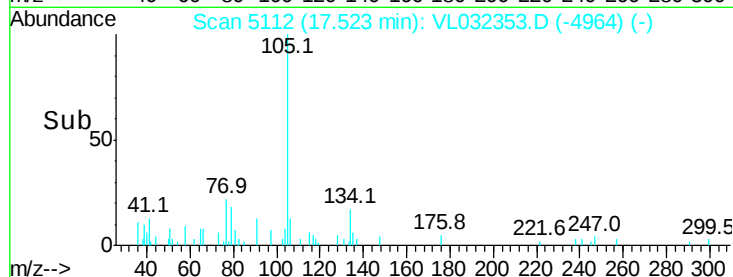
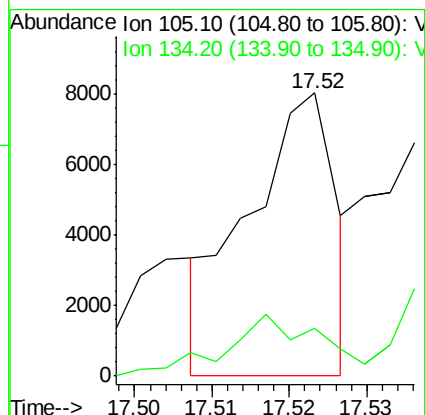
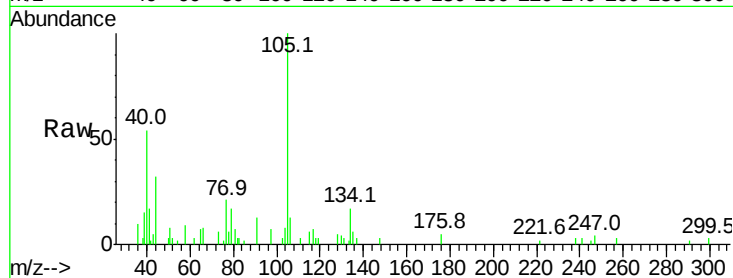




#67
 sec-Butylbenzene
 Concen: 0.007 ppbv
 RT: 17.52 min Scan# 5112
 Delta R.T. -0.02 min
 Lab File: VL032353.D
 Acq: 15 Aug 2018 13:15

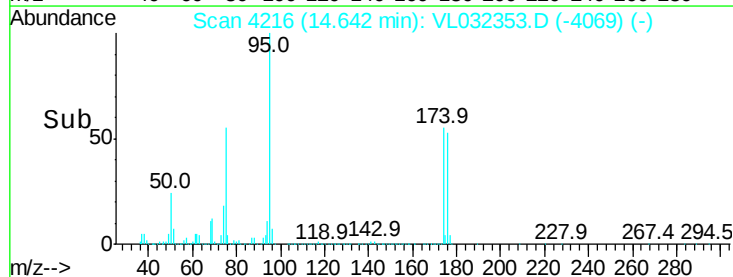
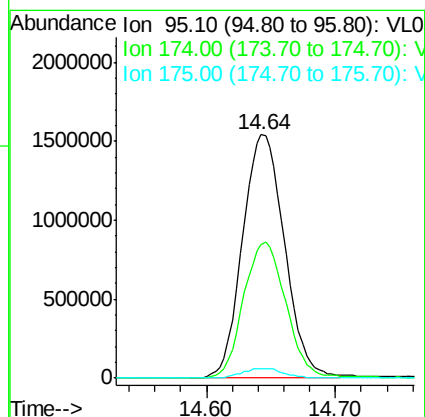
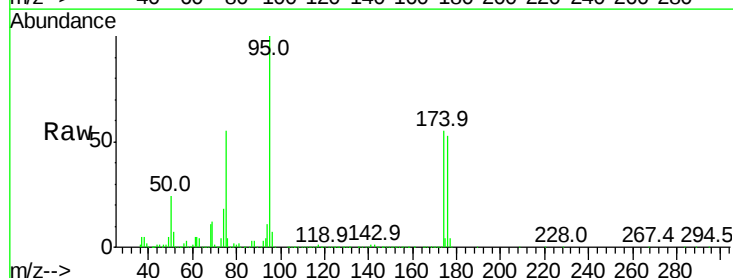
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

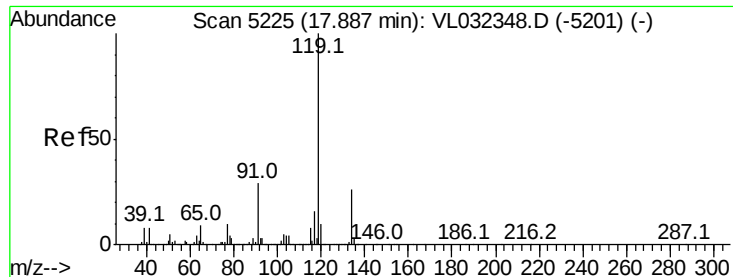
Tgt Ion: 105 Resp: 6309
 Ion Ratio Lower Upper
 105 100
 134 0.0 14.2 21.4#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.938 ppbv
 RT: 14.64 min Scan# 4216
 Delta R.T. -0.03 min
 Lab File: VL032353.D
 Acq: 15 Aug 2018 13:15

Tgt Ion: 95 Resp: 3499944
 Ion Ratio Lower Upper
 95 100
 174 56.9 45.5 68.3
 175 4.1 3.3 4.9





#69

p-Isopropyltoluene

Concen: 0.007 ppbv

RT: 17.88 min Scan# 5222

Delta R.T. -0.03 min

Lab File: VL032353.D

Acq: 15 Aug 2018 13:15

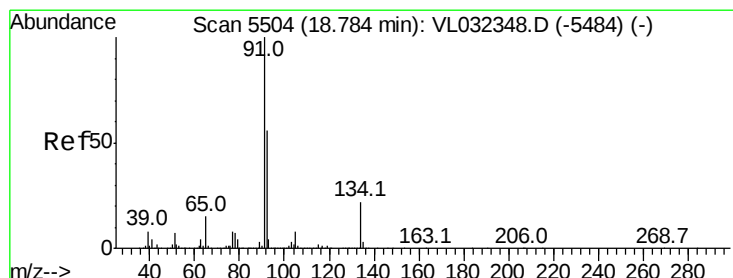
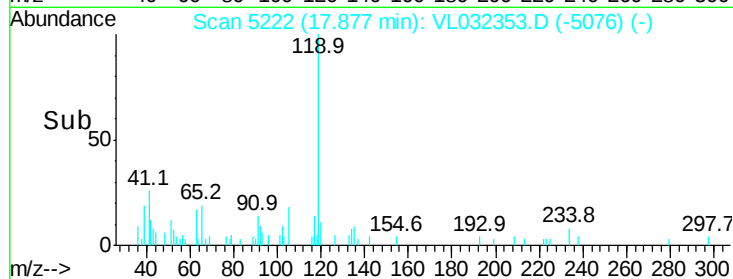
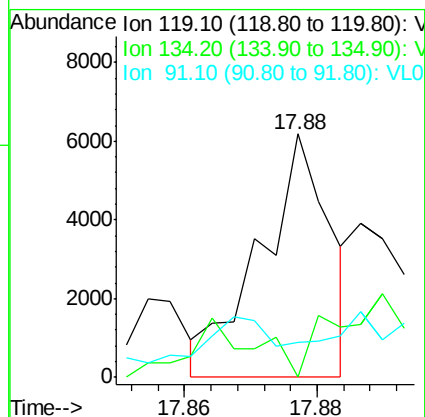
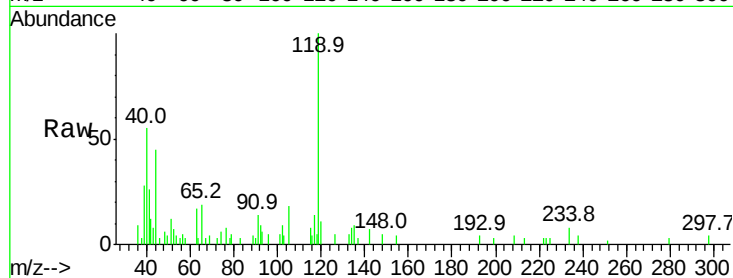
Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

Tgt Ion:	119	Resp:	4519
Ion Ratio	Lower	Upper	
119	100		
134	0.0	20.3	30.5#
91	0.0	23.8	35.6#



#70

n-Butylbenzene

Concen: 0.003 ppbv

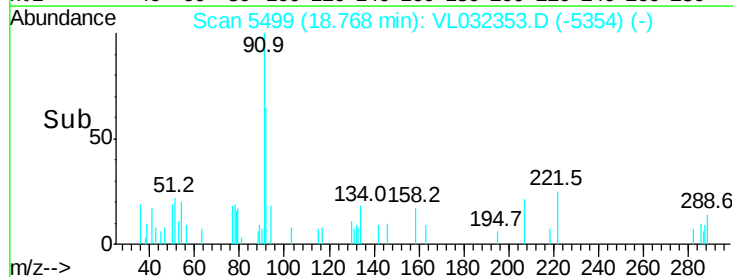
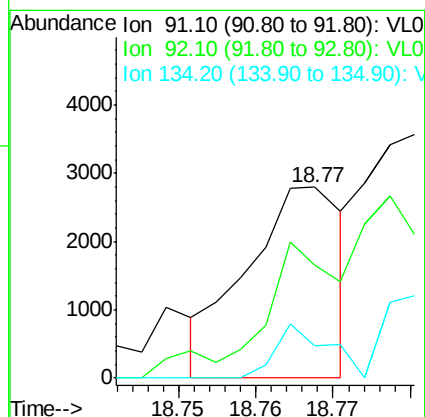
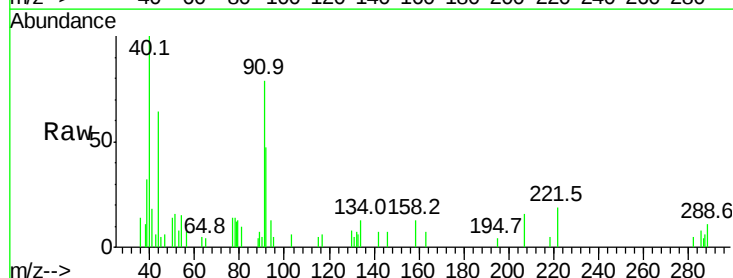
RT: 18.77 min Scan# 5499

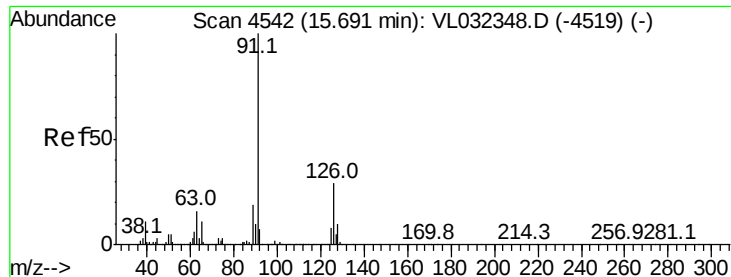
Delta R.T. -0.03 min

Lab File: VL032353.D

Acq: 15 Aug 2018 13:15

Tgt Ion:	91	Resp:	2414
Ion Ratio	Lower	Upper	
91	100		
92	0.0	44.2	66.4#
134	0.0	17.4	26.2#





#71

2-Chlorotoluene

Concen: 0.006 ppbv

RT: 15.68 min Scan# 4538

Delta R.T. -0.03 min

Lab File: VL032353.D

Acq: 15 Aug 2018 13:15

Instrument :

MSVOA_L

ClientSampleId :

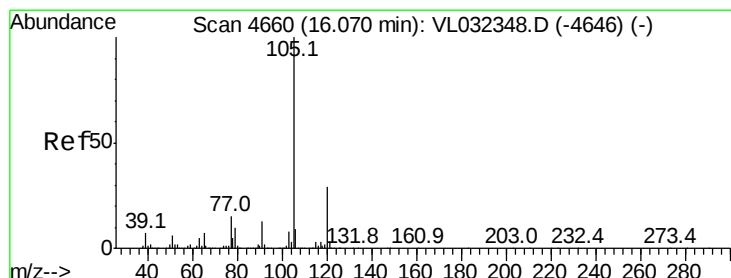
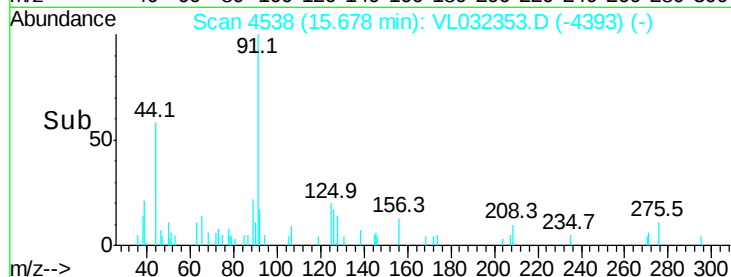
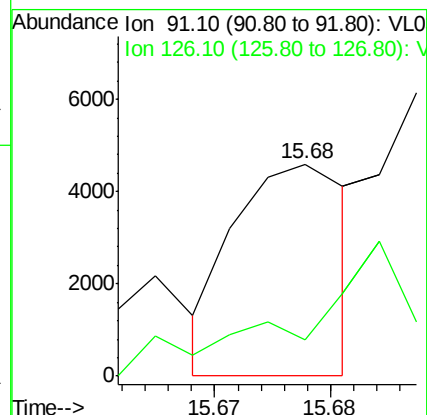
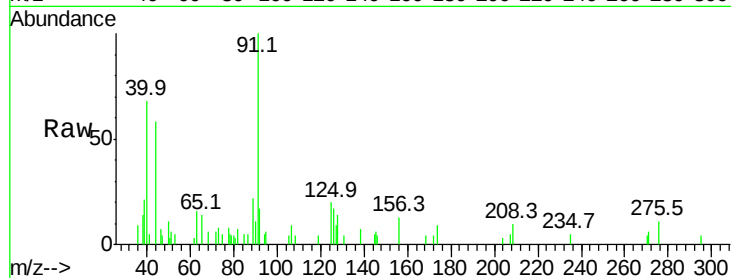
VSTDIC0.03

Tgt Ion: 91 Resp: 3136

Ion Ratio Lower Upper

91 100

126 0.0 11.8 47.0#



#72

4-Ethyltoluene

Concen: 0.007 ppbv

RT: 16.06 min Scan# 4657

Delta R.T. -0.03 min

Lab File: VL032353.D

Acq: 15 Aug 2018 13:15

Tgt Ion: 105 Resp: 3622

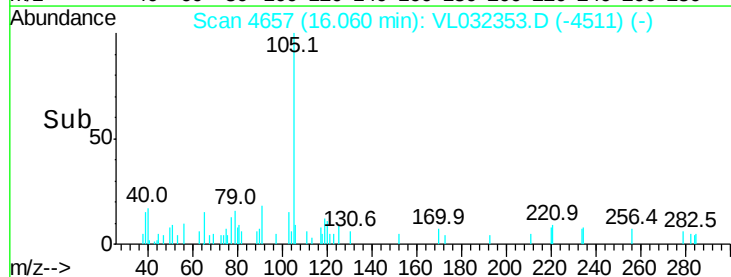
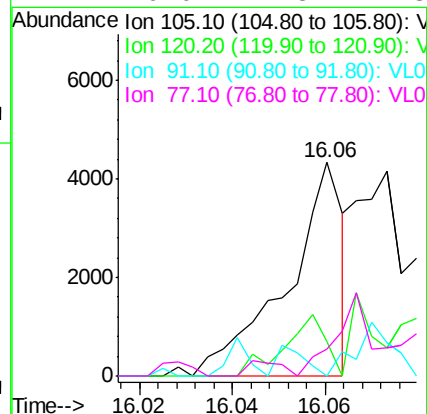
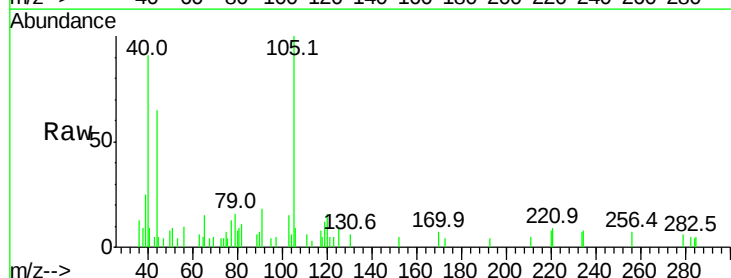
Ion Ratio Lower Upper

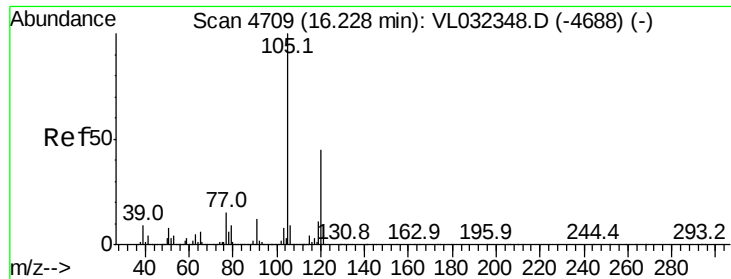
105 100

120 21.4 23.1 34.7#

91 0.0 10.0 15.0#

77 0.0 11.5 17.3#





#73

1,3,5-Trimethylbenzene

Concen: 0.006 ppbv

RT: 16.22 min Scan# 4708

Delta R.T. -0.03 min

Lab File: VL032353.D

Acq: 15 Aug 2018 13:15

Instrument :

MSVOA_L

ClientSampleId :

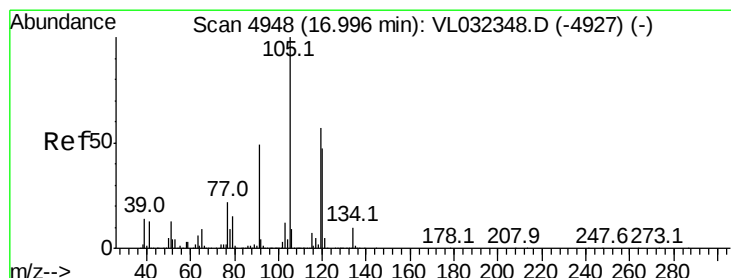
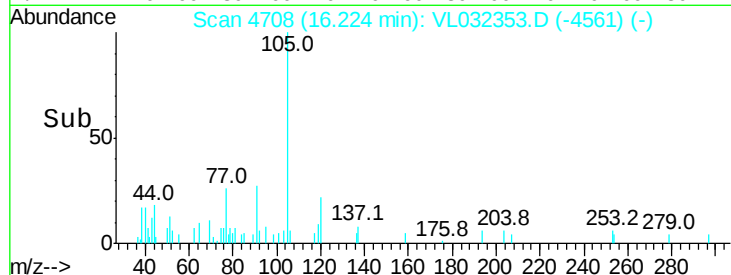
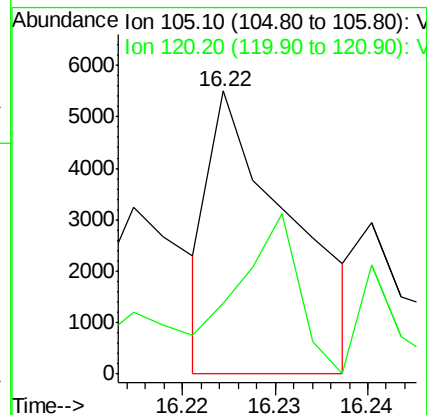
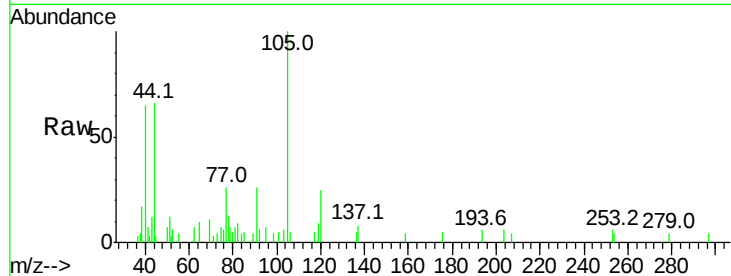
VSTDIC0.03

Tgt Ion:105 Resp: 3335

Ion Ratio Lower Upper

105 100

120 41.0 36.5 54.7



#74

1,2,4-Trimethylbenzene

Concen: 0.008 ppbv

RT: 16.99 min Scan# 4947

Delta R.T. -0.02 min

Lab File: VL032353.D

Acq: 15 Aug 2018 13:15

Tgt Ion:105 Resp: 4455

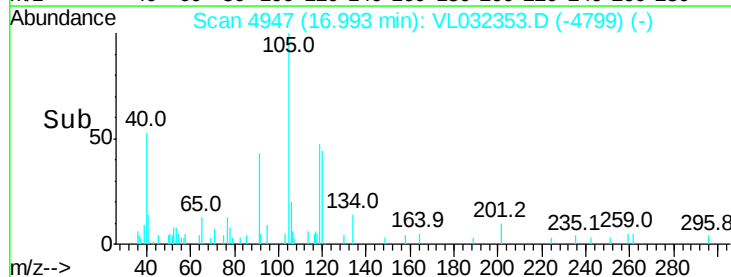
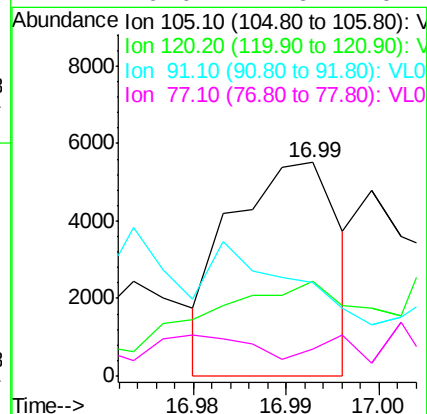
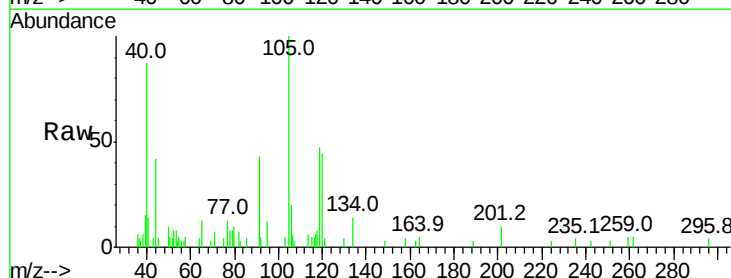
Ion Ratio Lower Upper

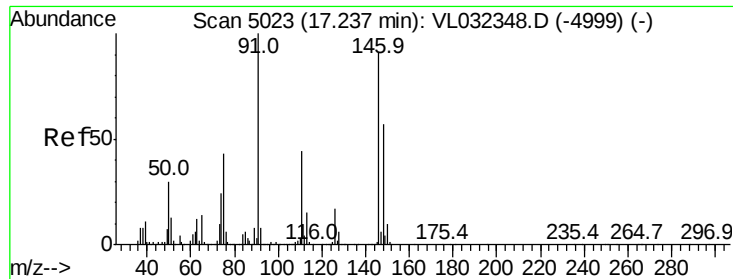
105 100

120 26.1 37.8 56.6#

91 23.7 39.4 59.0#

77 0.0 17.6 26.4#





#75

1,3-Dichlorobenzene

Concen: 0.008 ppbv

RT: 17.23 min Scan# 5020

Delta R.T. -0.03 min

Lab File: VL032353.D

Acq: 15 Aug 2018 13:15

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

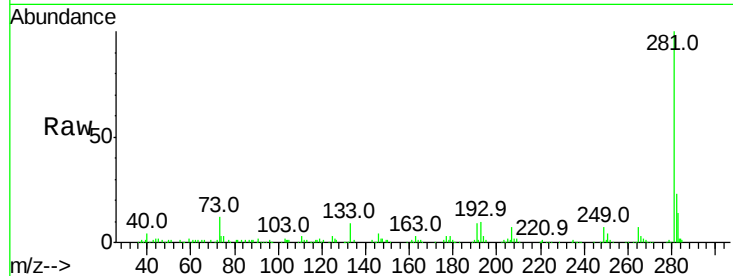
Tgt Ion:146 Resp: 2613

Ion Ratio Lower Upper

146 100

111 0.0 24.6 73.8#

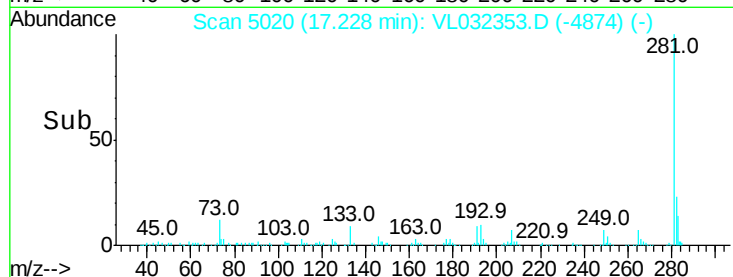
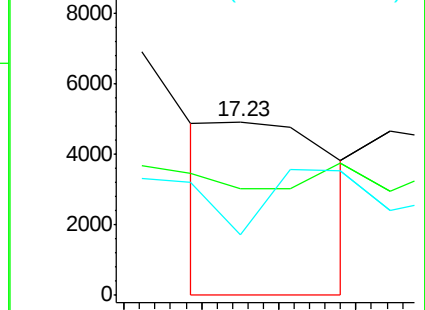
148 0.0 31.6 95.0#



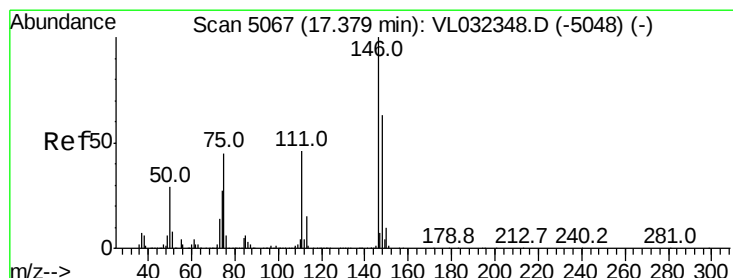
Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



Time-->



#76

1,4-Dichlorobenzene

Concen: 0.008 ppbv

RT: 17.37 min Scan# 5063

Delta R.T. -0.04 min

Lab File: VL032353.D

Acq: 15 Aug 2018 13:15

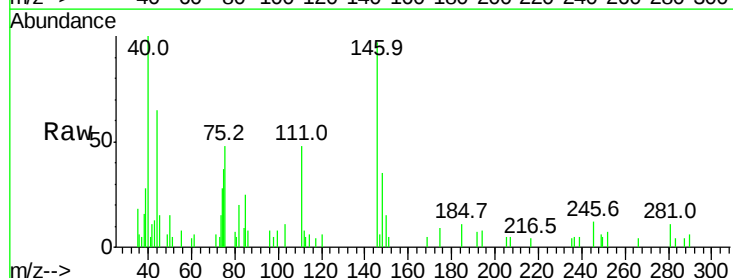
Tgt Ion:146 Resp: 2441

Ion Ratio Lower Upper

146 100

111 0.0 23.6 70.8#

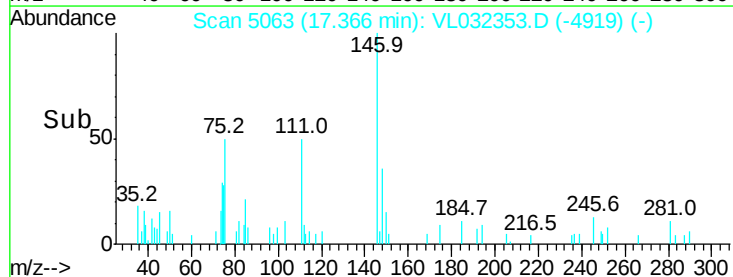
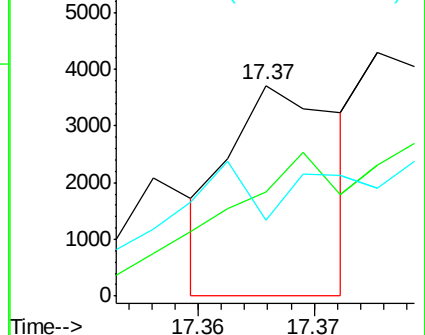
148 0.0 32.1 96.3#



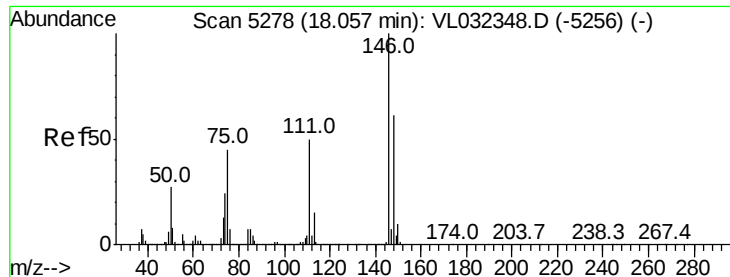
Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



Time-->



#77

1,2-Dichlorobenzene

Concen: 0.004 ppbv

RT: 18.04 min Scan# 5273

Delta R.T. -0.04 min

Lab File: VL032353.D

Acq: 15 Aug 2018 13:15

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

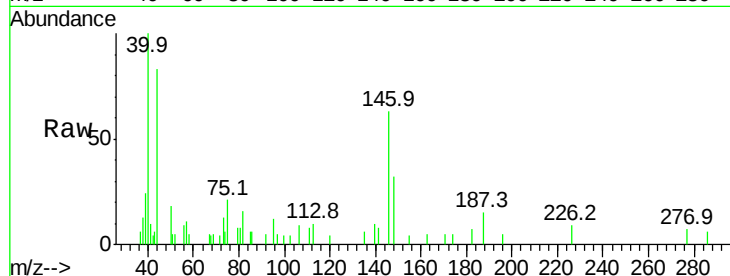
Tgt Ion:146 Resp: 1260

Ion Ratio Lower Upper

146 100

111 0.0 25.1 75.3#

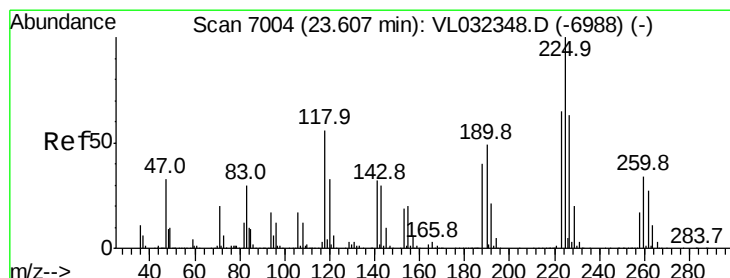
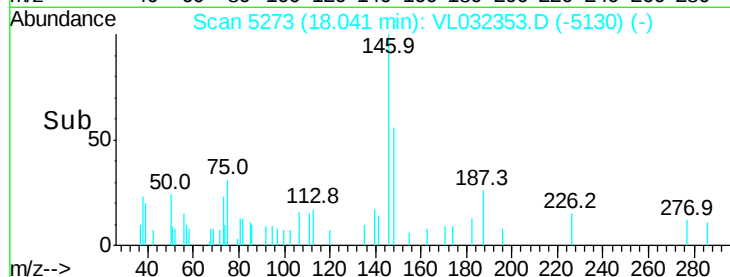
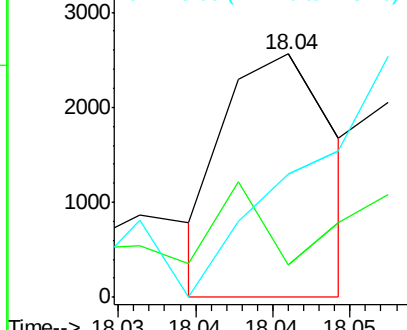
148 512.8 31.9 95.7#



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: 0.004 ppbv

RT: 23.57 min Scan# 6994

Delta R.T. -0.05 min

Lab File: VL032353.D

Acq: 15 Aug 2018 13:15

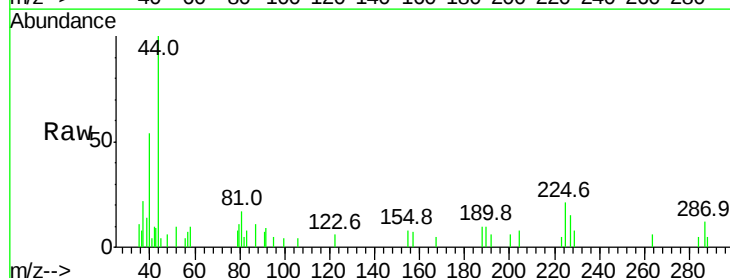
Tgt Ion:225 Resp: 469

Ion Ratio Lower Upper

225 100

223 0.0 50.5 75.7#

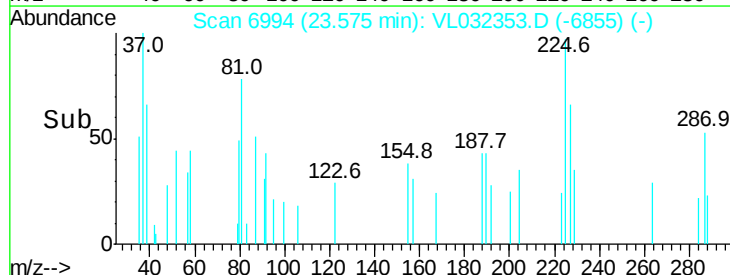
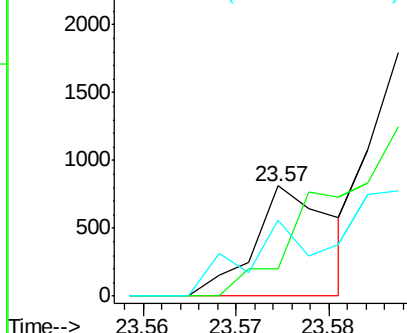
227 0.0 51.3 76.9#

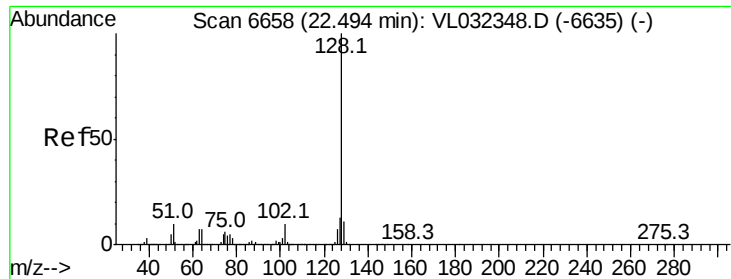


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 0.002 ppbv

RT: 22.48 min Scan# 6654

Delta R.T. -0.04 min

Lab File: VL032353.D

Acq: 15 Aug 2018 13:15

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

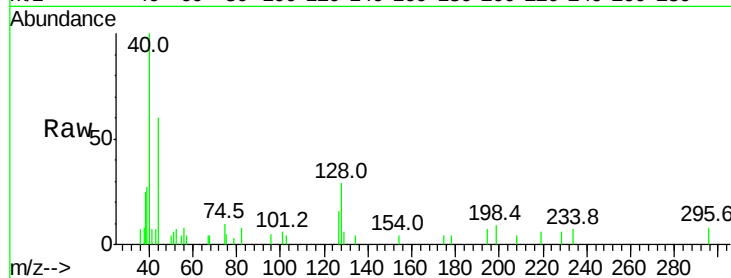
Tgt Ion:128 Resp: 1166

Ion Ratio Lower Upper

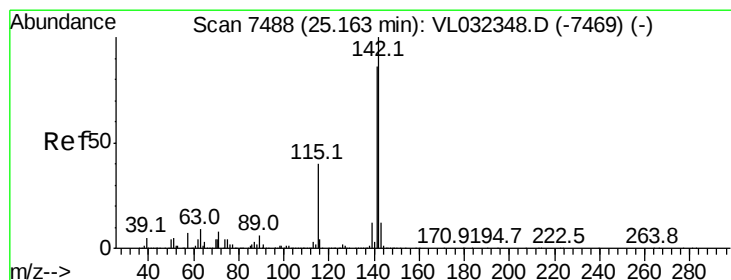
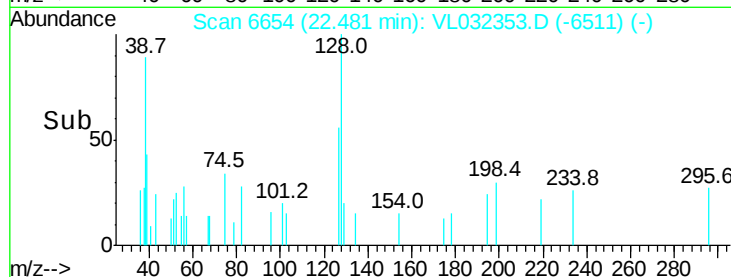
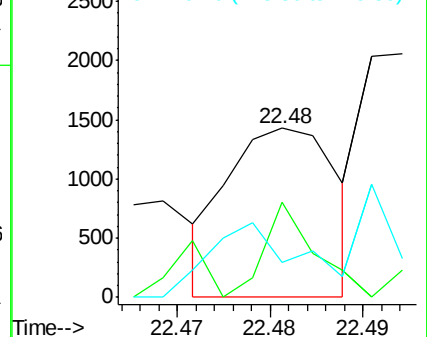
128 100

127 98.3 9.9 14.9#

129 19.9 8.8 13.2#



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



#80

Naphthalene, 2-methyl-

Concen: 0.001 ppbv

RT: 25.15 min Scan# 7485

Delta R.T. -0.03 min

Lab File: VL032353.D

Acq: 15 Aug 2018 13:15

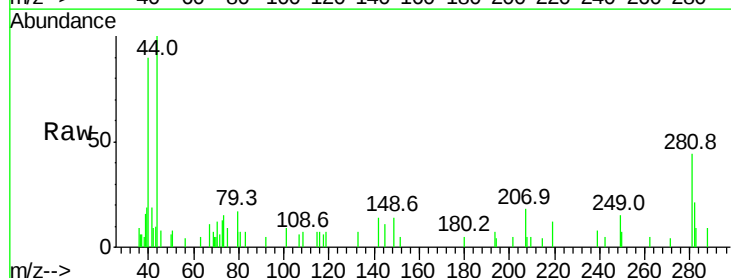
Tgt Ion:142 Resp: 151

Ion Ratio Lower Upper

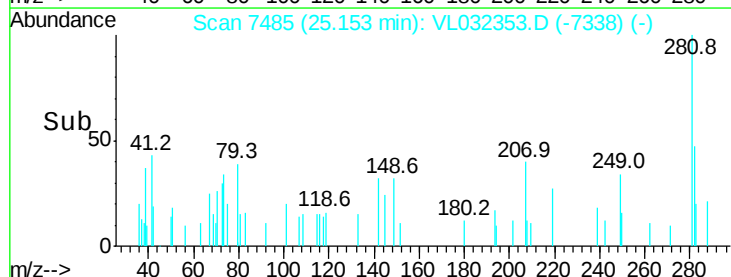
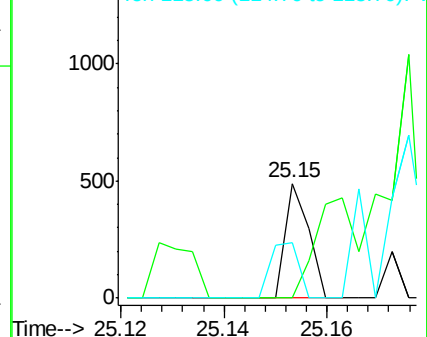
142 100

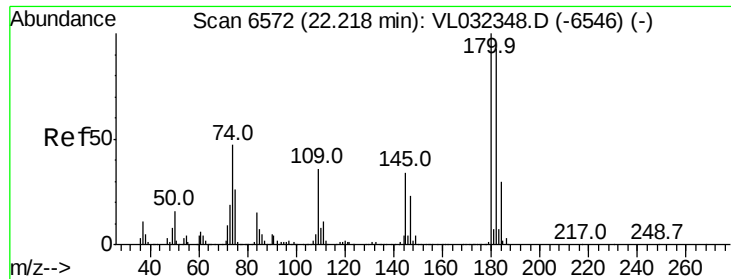
141 82.8 66.7 100.1

115 0.0 31.1 46.7#



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





#81
 1,2,4-Trichlorobenzene
 Concen: 0.002 ppbv
 RT: 22.20 min Scan# 6565
 Delta R.T. -0.04 min
 Lab File: VL032353.D
 Acq: 15 Aug 2018 13:15

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

Tgt Ion:180 Resp: 407
 Ion Ratio Lower Upper
 180 100
 182 0.0 76.2 114.2#
 184 0.0 24.3 36.5#

