

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120122\
 Data File : VL039945.D
 Acq On : 1 Dec 2022 17:04
 Operator : SY/MD
 Sample : N5825-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OTC-IA

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/02/2022
 Supervised By :Mahesh Dadoda 12/05/2022

Quant Time: Dec 02 05:33:30 2022

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111822AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2022

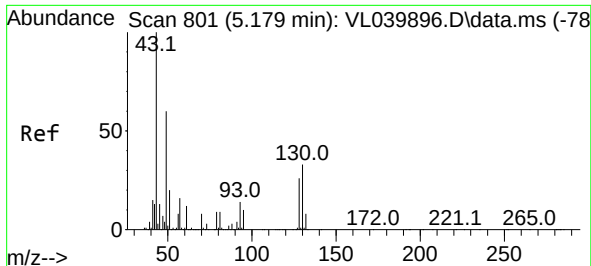
QLast Update : Fri Dec 02 05:29:35 2022

Response via : Initial Calibration

Compound		R.T.	QIon	Response	Conc	Units	Dev(Min)

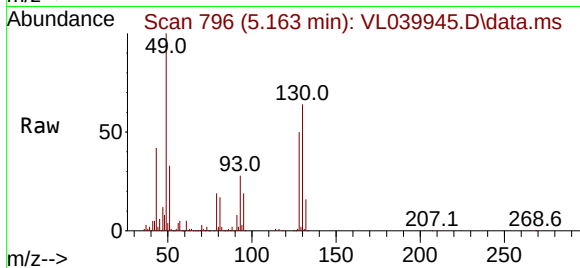
Internal Standards							
1)	Bromochloromethane	5.163	49	1108661	10.000	ppbv	-0.01
33)	1,4-Difluorobenzene	6.626	114	3010751	10.000	ppbv	0.00
55)	Chlorobenzene-d5	11.439	117	2759756	10.000	ppbv	-0.01
System Monitoring Compounds							
68)	1-Bromo-4-Fluorobenzene	13.751	95	2164058	10.266	ppbv	-0.01
Spiked Amount 10.000		Range	65 - 135	Recovery	=	102.700%	
Target Compounds						Qvalue	
2)	Dichlorodifluoromethane	2.703	85	76236	0.480	ppbv	98
3)	Chlorodifluoromethane	2.649	51	2329382	15.226	ppbv	98
4)	Chloromethane	2.787	50	39877	0.408	ppbv	97
9)	Propene	2.677	41	83973	1.165	ppbv #	83
10)	Heptane	7.549	43	26267m	0.151	ppbv	
11)	Trichlorofluoromethane	3.536	101	40532	0.209	ppbv	93
13)	Ethanol	3.214	45	7226123	1313.378	ppbv	98
15)	Acetone	3.440	43	1624716	11.049	ppbv	96
19)	Isopropyl Alcohol	3.558	45	934807	11.741	ppbv #	32
20)	Methylene Chloride	3.906	84	184183	2.585	ppbv	93
25)	Ethyl Acetate	5.179	43	1019208	3.775	ppbv	98
26)	Hexane	5.182	57	407721	3.457	ppbv	92
29)	Chloroform	5.243	83	71842	0.458	ppbv	86
34)	2-Butanone	4.761	43	98729	0.685	ppbv	94
35)	Carbon Tetrachloride	6.472	117	15072m	0.088	ppbv	
36)	Benzene	6.343	78	84771	0.331	ppbv #	92
41)	Tetrahydrofuran	5.539	42	34516m	0.347	ppbv	
44)	2,2,4-Trimethylpentane	7.295	57	60084m	0.141	ppbv	
52)	Tetrachloroethene	10.587	164	39811m	0.416	ppbv	
53)	Toluene	9.195	91	445688	1.529	ppbv	99
58)	Ethyl Benzene	12.069	91	43331m	0.116	ppbv	
59)	m/p-Xylene	12.317	91	114421m	0.365	ppbv	
60)	o-Xylene	13.034	91	44809	0.150	ppbv	92
61)	Styrene	12.864	104	26428m	0.148	ppbv	
69)	p-Isopropyltoluene	16.973	119	64040	0.150	ppbv #	92
74)	1,2,4-Trimethylbenzene	16.085	105	91094	0.280	ppbv #	74

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.163 min Scan# 79
Delta R.T. -0.010 min
Lab File: VL039945.D
Acq: 1 Dec 2022 17:04

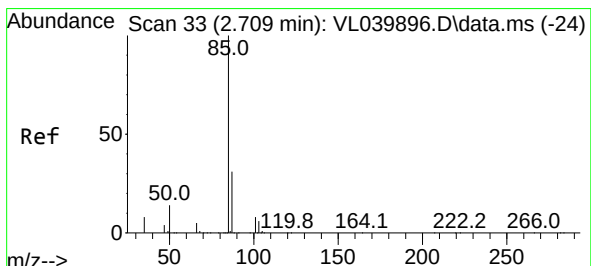
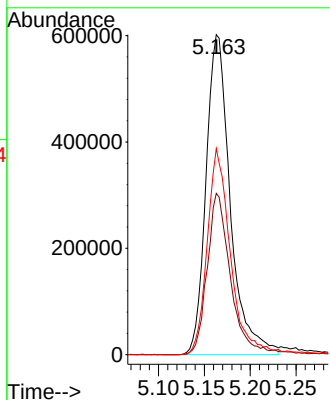
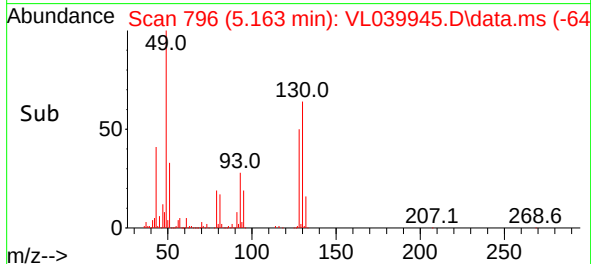
Instrument :
MSVOA_L
ClientSampleId :
OTC-IA



Tgt Ion: 49 Resp: 110866
Ion Ratio Lower Upper
49 100
128 49.4 22.1 66.3
130 63.4 27.7 83.1

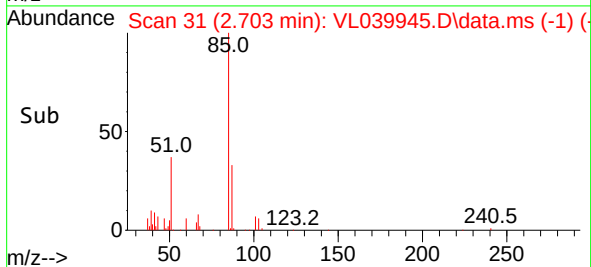
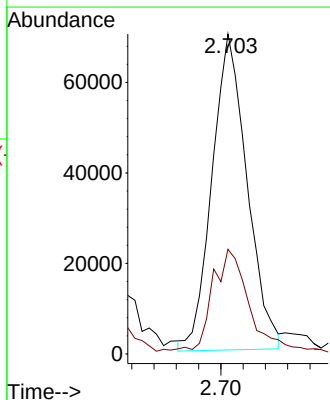
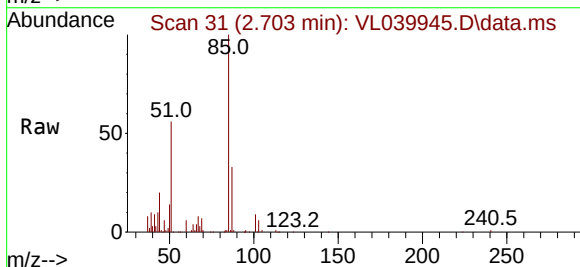
Manual Integrations
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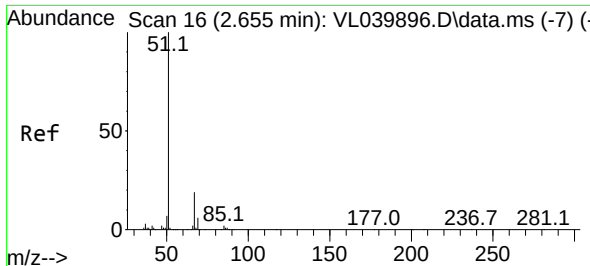
Reviewed By :Semsettin Yesilyurt 12/02/2022
Supervised By :Mahesh Dadoda 12/05/2022



#2
Dichlorodifluoromethane
Concen: 0.480 ppbv
RT: 2.703 min Scan# 31
Delta R.T. -0.006 min
Lab File: VL039945.D
Acq: 1 Dec 2022 17:04

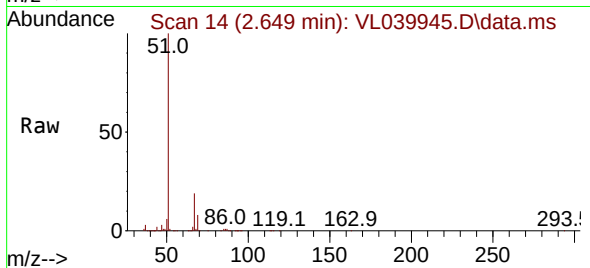
Tgt Ion: 85 Resp: 76236
Ion Ratio Lower Upper
85 100
87 32.4 25.0 37.4





#3
Chlorodifluoromethane
Concen: 15.226 ppbv
RT: 2.649 min Scan# 14
Delta R.T. -0.006 min
Lab File: VL039945.D
Acq: 1 Dec 2022 17:04

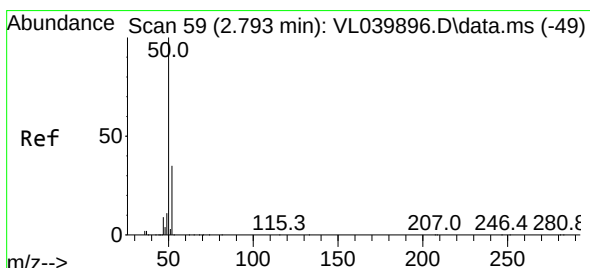
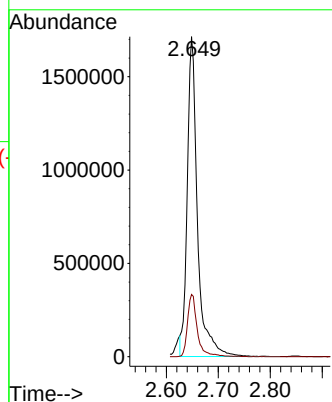
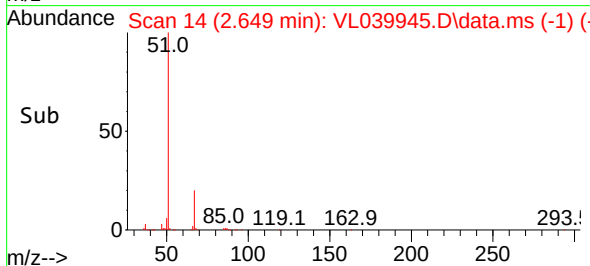
Instrument :
MSVOA_L
ClientSampleId :
OTC-IA



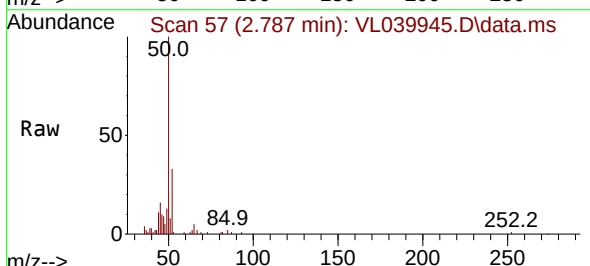
Tgt Ion: 51 Resp: 232938
Ion Ratio Lower Upper
51 100
67 18.7 14.2 21.4

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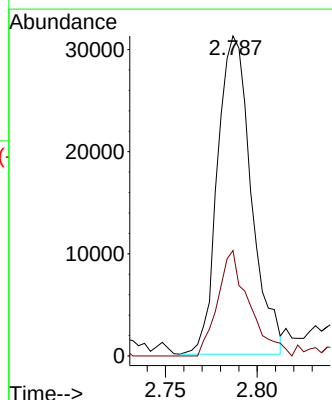
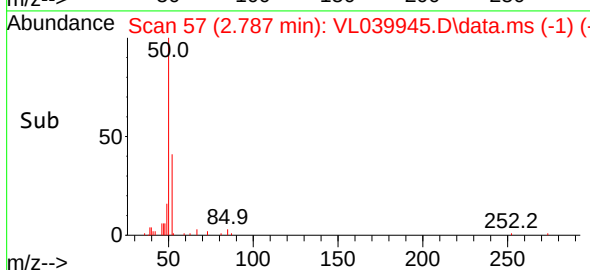
Reviewed By :Semsettin Yesilyurt 12/02/2022
Supervised By :Mahesh Dadoda 12/05/2022

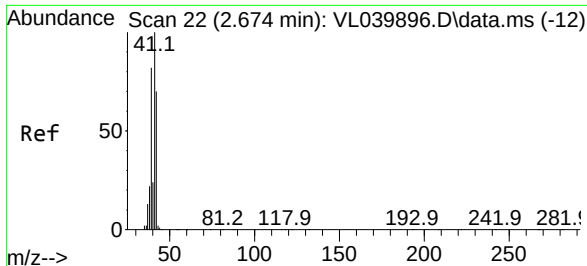


#4
Chloromethane
Concen: 0.408 ppbv
RT: 2.787 min Scan# 57
Delta R.T. -0.003 min
Lab File: VL039945.D
Acq: 1 Dec 2022 17:04



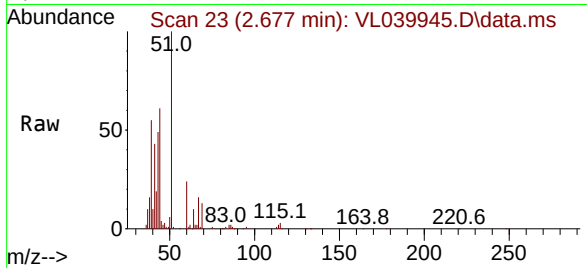
Tgt Ion: 50 Resp: 39877
Ion Ratio Lower Upper
50 100
52 33.1 27.8 41.8





#9
 Propene
 Concen: 1.165 ppbv
 RT: 2.677 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VL039945.D
 Acq: 1 Dec 2022 17:04

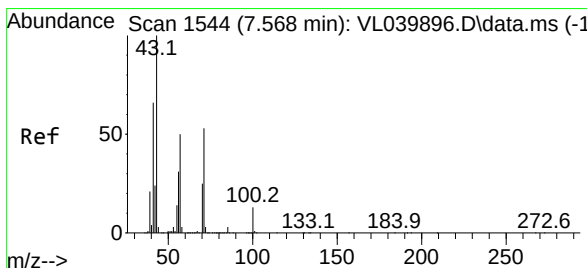
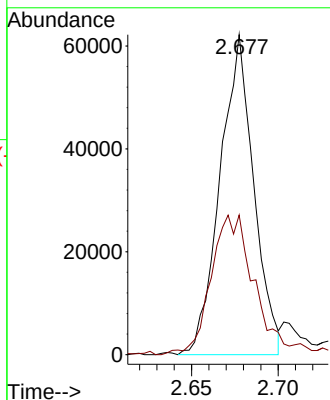
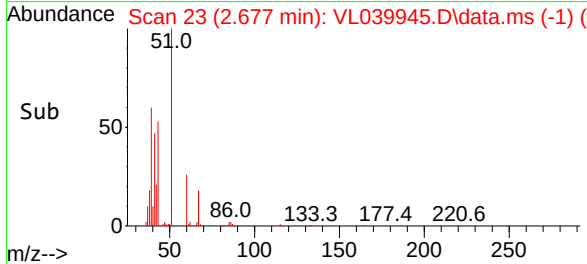
Instrument :
 MSVOA_L
 ClientSampleId :
 OTC-IA



Tgt Ion: 41 Resp: 8397
 Ion Ratio Lower Upper
 41 100
 42 55.4 55.8 83.6

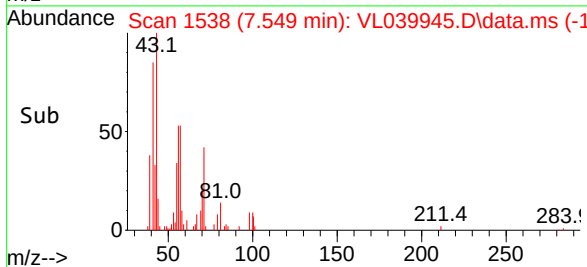
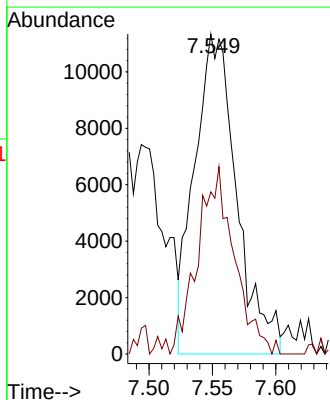
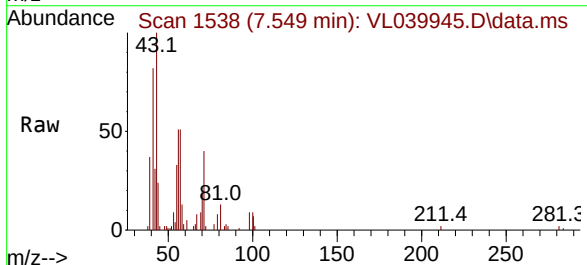
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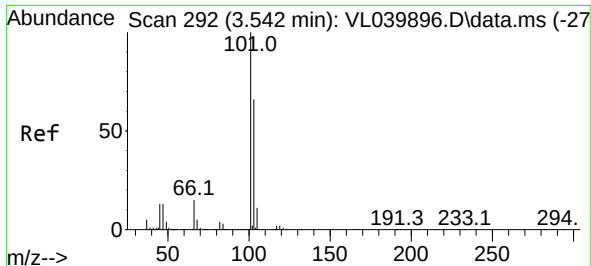
Reviewed By :Semsettin Yesilyurt 12/02/2022
 Supervised By :Mahesh Dadoda 12/05/2022



#10
 Heptane
 Concen: 0.151 ppbv m
 RT: 7.549 min Scan# 1538
 Delta R.T. -0.016 min
 Lab File: VL039945.D
 Acq: 1 Dec 2022 17:04

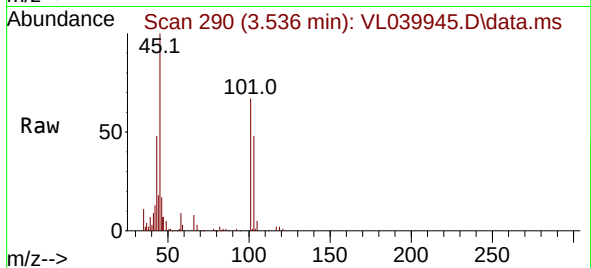
Tgt Ion: 43 Resp: 26267
 Ion Ratio Lower Upper
 43 100
 57 0.0 40.7 61.1





#11
Trichlorofluoromethane
Concen: 0.209 ppbv
RT: 3.536 min Scan# 292
Delta R.T. -0.006 min
Lab File: VL039945.D
Acq: 1 Dec 2022 17:04

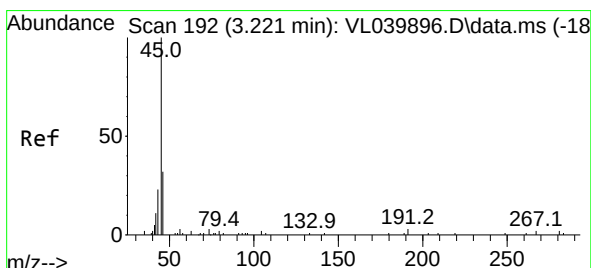
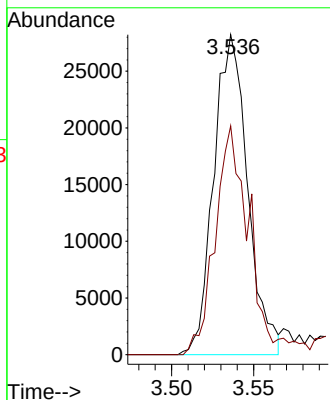
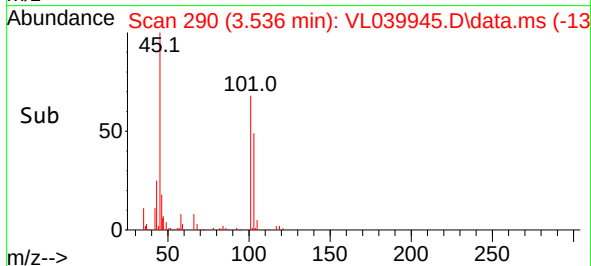
Instrument :
MSVOA_L
ClientSampleId :
OTC-IA



Tgt Ion:101 Resp: 40532
Ion Ratio Lower Upper
101 100
103 71.5 52.6 78.8

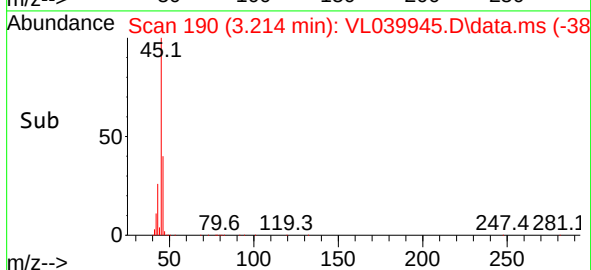
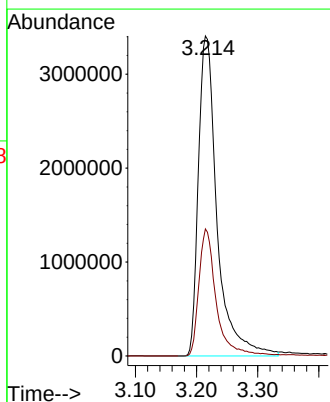
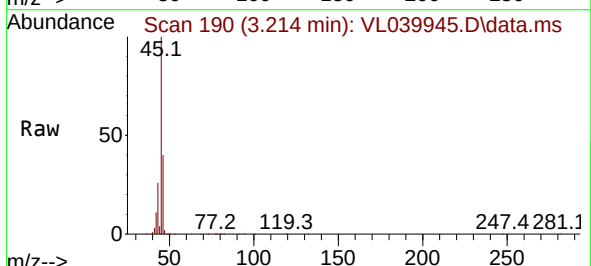
Manual Integrations
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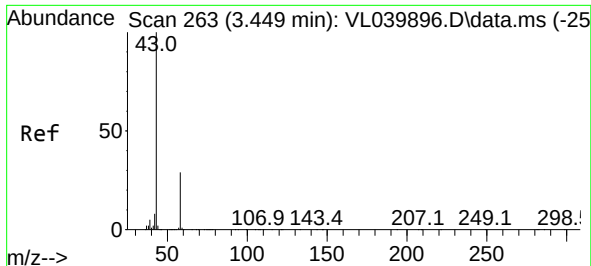
Reviewed By :Semsettin Yesilyurt 12/02/2022
Supervised By :Mahesh Dadoda 12/05/2022



#13
Ethanol
Concen: 1313.378 ppbv
RT: 3.214 min Scan# 190
Delta R.T. -0.013 min
Lab File: VL039945.D
Acq: 1 Dec 2022 17:04

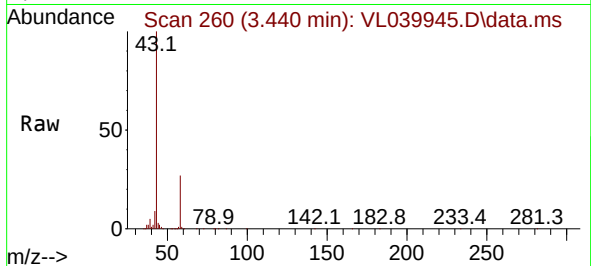
Tgt Ion: 45 Resp: 7226123
Ion Ratio Lower Upper
45 100
46 37.8 14.6 58.2





#15
Acetone
Concen: 11.049 ppbv
RT: 3.440 min Scan# 20
Delta R.T. -0.006 min
Lab File: VL039945.D
Acq: 1 Dec 2022 17:04

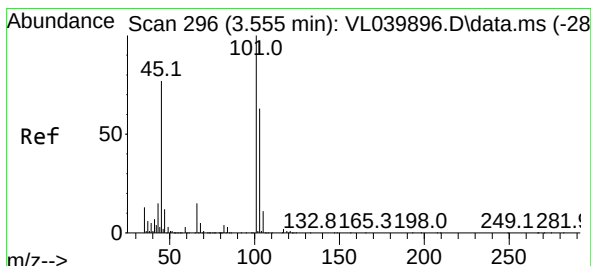
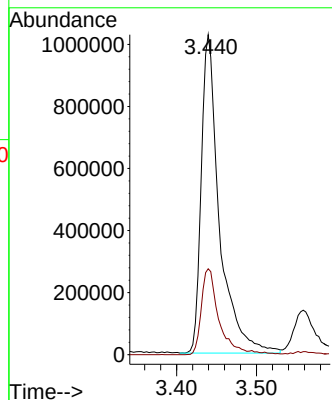
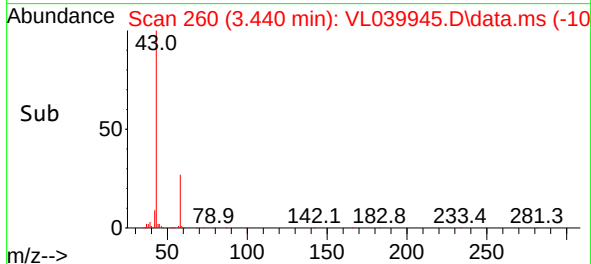
Instrument :
MSVOA_L
ClientSampleId :
OTC-IA



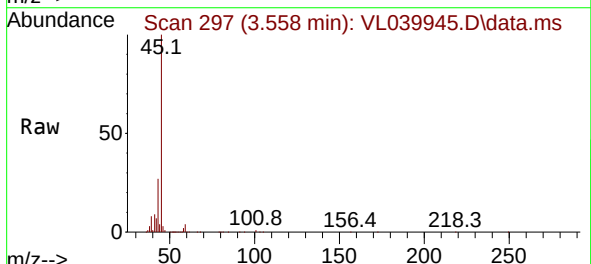
Tgt Ion: 43 Resp: 1624710
Ion Ratio Lower Upper
43 100
58 26.4 22.9 34.3

Manual Integrations
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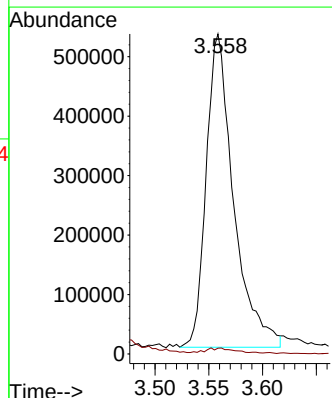
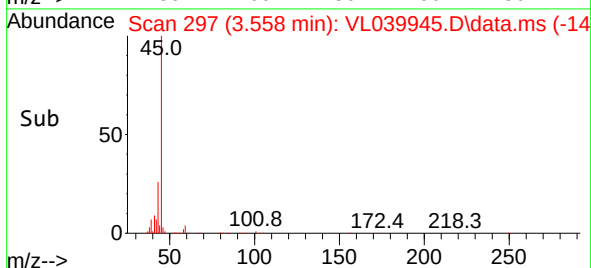
Reviewed By :Semsettin Yesilyurt 12/02/2022
Supervised By :Mahesh Dadoda 12/05/2022

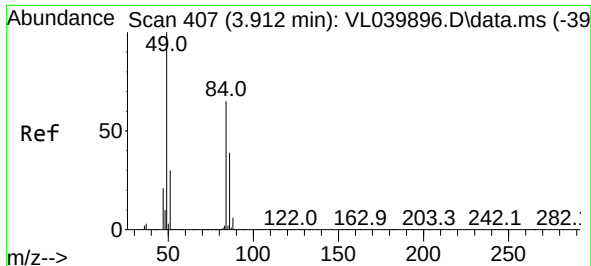


#19
Isopropyl Alcohol
Concen: 11.741 ppbv
RT: 3.558 min Scan# 297
Delta R.T. 0.003 min
Lab File: VL039945.D
Acq: 1 Dec 2022 17:04



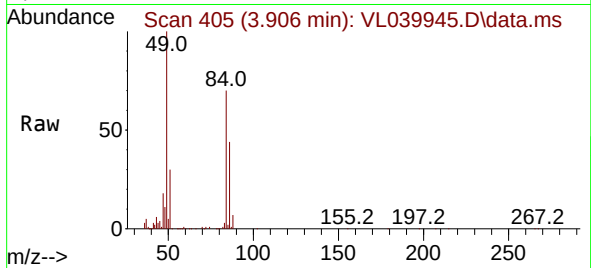
Tgt Ion: 45 Resp: 934807
Ion Ratio Lower Upper
45 100
58 2.4 38.7 58.1#





#20
Methylene Chloride
Concen: 2.585 ppbv
RT: 3.906 min Scan# 405
Delta R.T. -0.006 min
Lab File: VL039945.D
Acq: 1 Dec 2022 17:04

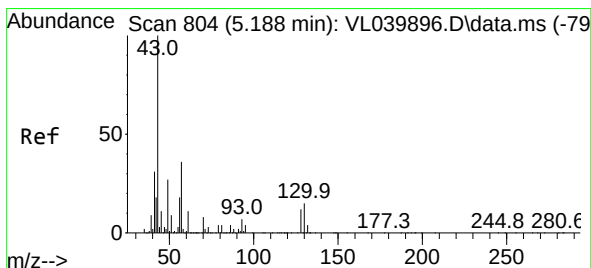
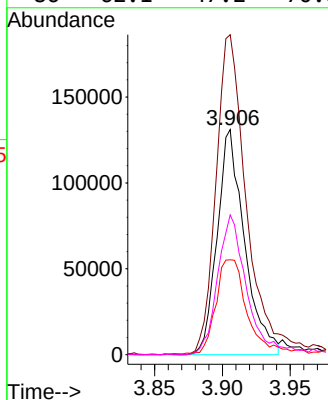
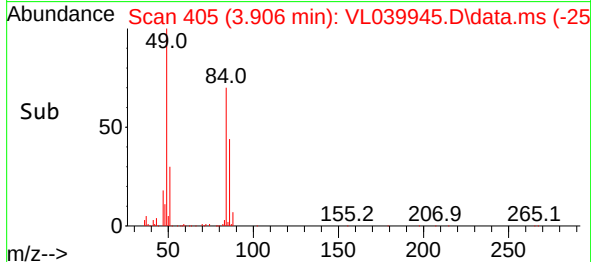
Instrument :
MSVOA_L
ClientSampleId :
OTC-IA



Tgt Ion: 84 Resp: 18418
Ion Ratio Lower Upper
84 100
49 142.1 122.2 183.4
51 41.7 36.3 54.5
86 62.1 47.2 70.8

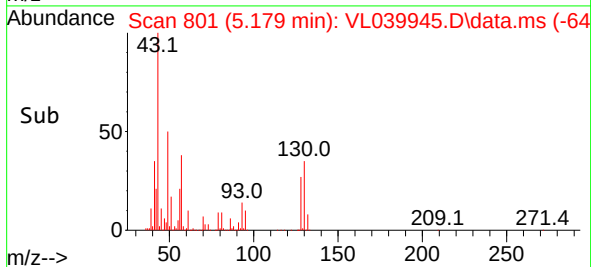
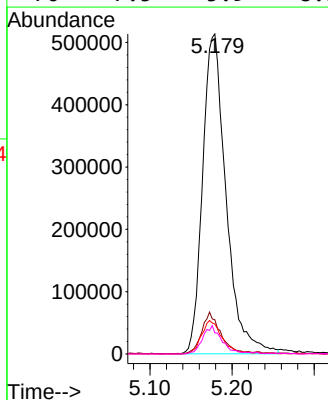
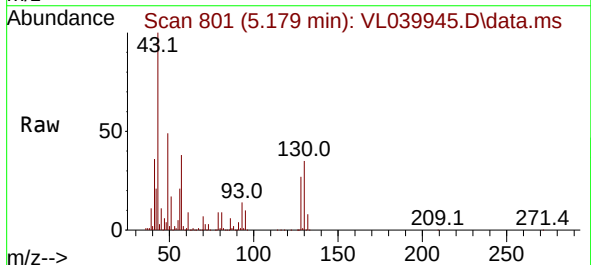
Manual Integrations
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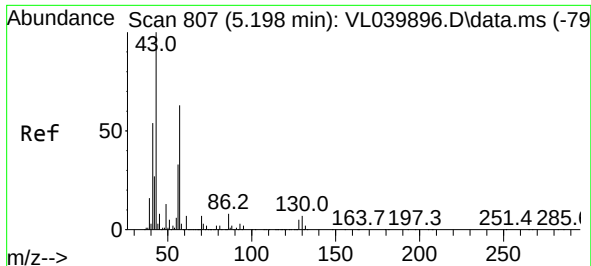
Reviewed By :Semsettin Yesilyurt 12/02/2022
Supervised By :Mahesh Dadoda 12/05/2022



#25
Ethyl Acetate
Concen: 3.775 ppbv
RT: 5.179 min Scan# 801
Delta R.T. -0.006 min
Lab File: VL039945.D
Acq: 1 Dec 2022 17:04

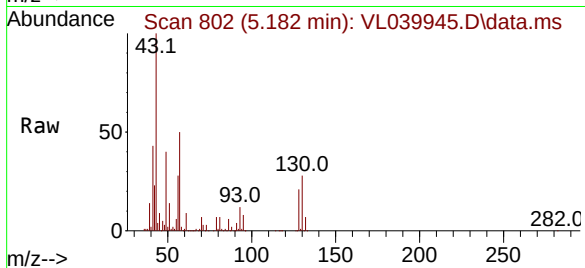
Tgt Ion: 43 Resp: 1019208
Ion Ratio Lower Upper
43 100
45 11.5 8.4 12.6
61 9.5 8.5 12.7
70 7.5 5.9 8.9





#26
Hexane
Concen: 3.457 ppbv
RT: 5.182 min Scan# 807
Delta R.T. -0.013 min
Lab File: VL039945.D
Acq: 1 Dec 2022 17:04

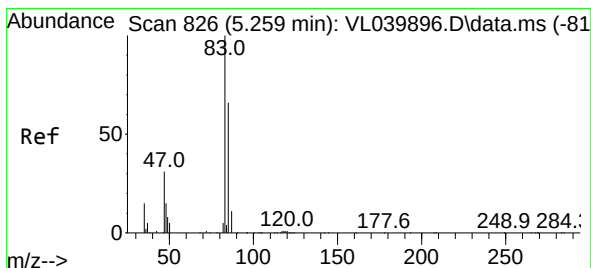
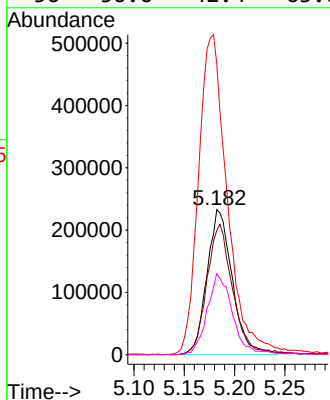
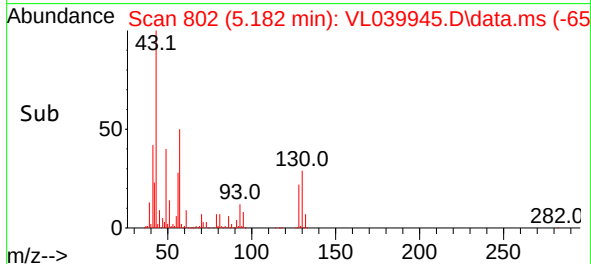
Instrument :
MSVOA_L
ClientSampleId :
OTC-IA



Tgt Ion: 57 Resp: 407721
Ion Ratio Lower Upper
57 100
41 93.4 72.3 108.5
43 253.3 188.7 283.1
56 56.6 42.4 63.6

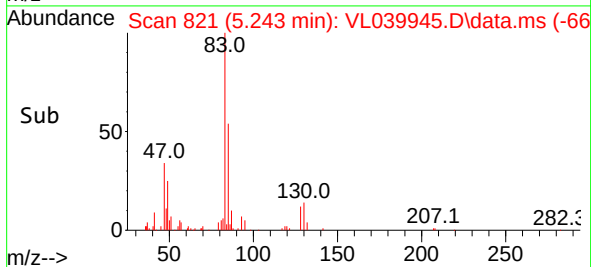
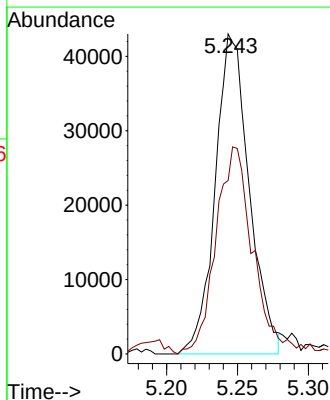
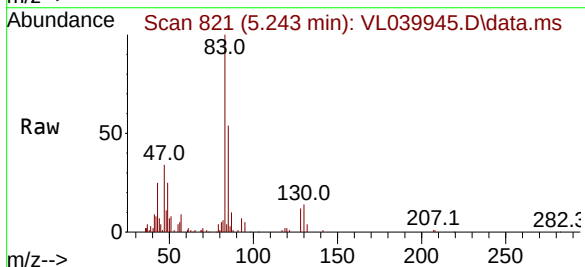
Manual Integrations
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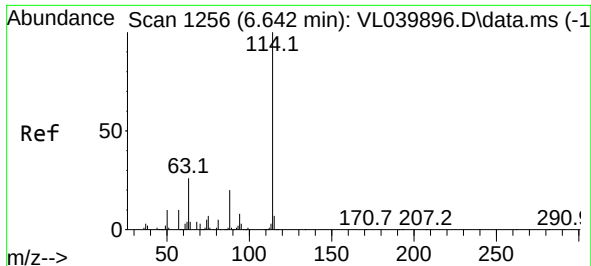
Reviewed By :Semsettin Yesilyurt 12/02/2022
Supervised By :Mahesh Dadoda 12/05/2022



#29
Chloroform
Concen: 0.458 ppbv
RT: 5.243 min Scan# 821
Delta R.T. -0.013 min
Lab File: VL039945.D
Acq: 1 Dec 2022 17:04

Tgt Ion: 83 Resp: 71842
Ion Ratio Lower Upper
83 100
85 54.2 52.4 78.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.626 min Scan# 114

Delta R.T. -0.010 min

Lab File: VL039945.D

Acq: 1 Dec 2022 17:04

Instrument :

MSVOA_L

ClientSampleId :

OTC-IA

Tgt Ion:114 Resp: 301075

Ion Ratio Lower Upper

114 100

63 25.0 21.4 32.0

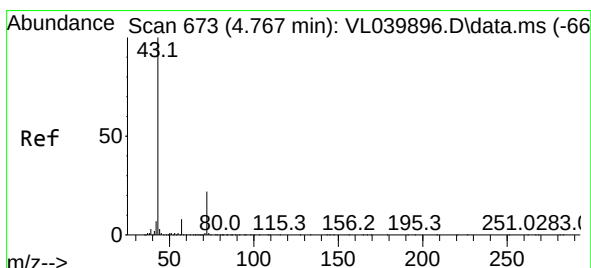
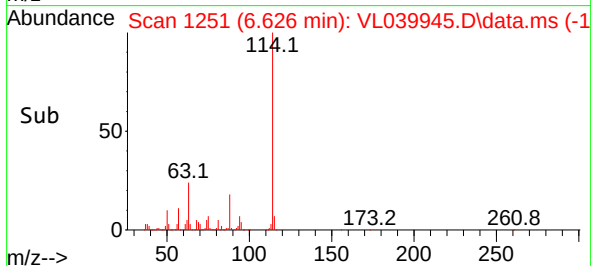
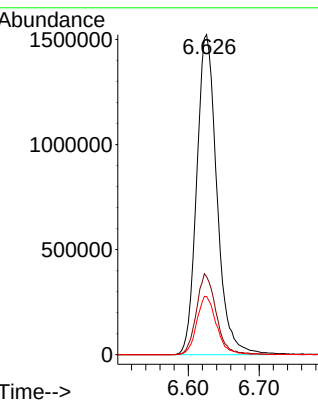
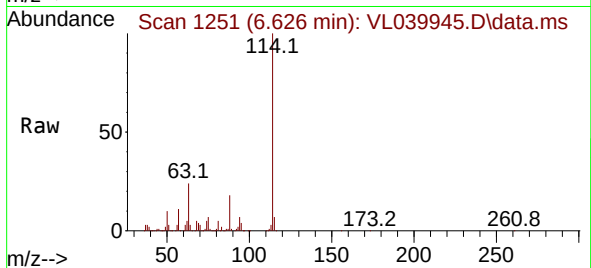
88 18.1 15.3 22.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/02/2022

Supervised By :Mahesh Dadoda 12/05/2022



#34

2-Butanone

Concen: 0.685 ppbv

RT: 4.761 min Scan# 671

Delta R.T. -0.006 min

Lab File: VL039945.D

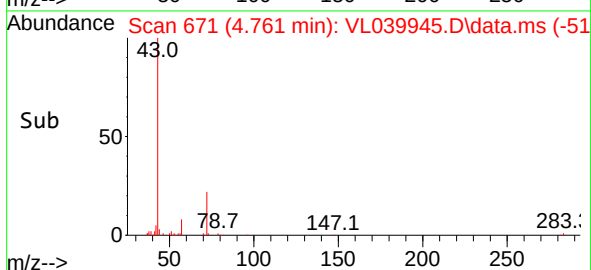
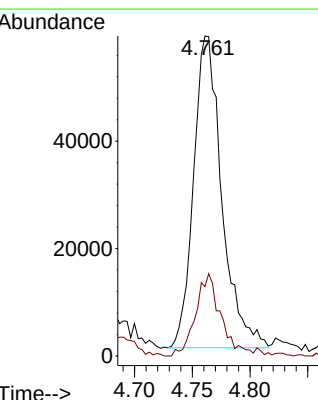
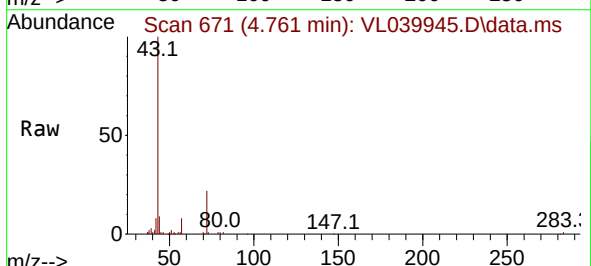
Acq: 1 Dec 2022 17:04

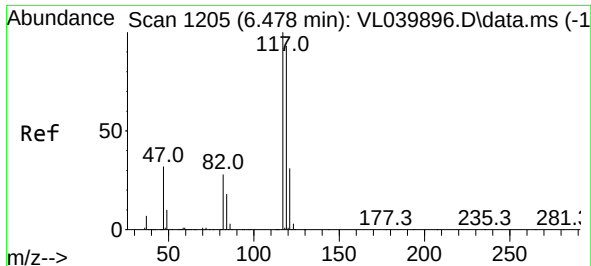
Tgt Ion: 43 Resp: 98729

Ion Ratio Lower Upper

43 100

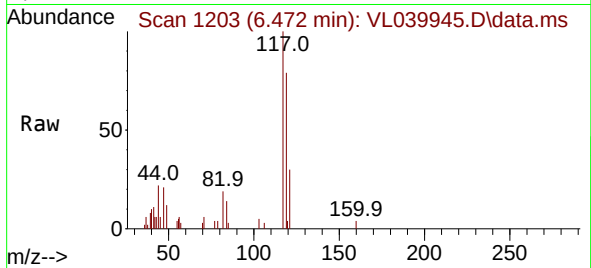
72 24.7 17.4 26.2





#35
Carbon Tetrachloride
Concen: 0.088 ppbv m
RT: 6.472 min Scan# 1163
Delta R.T. -0.006 min
Lab File: VL039945.D
Acq: 1 Dec 2022 17:04

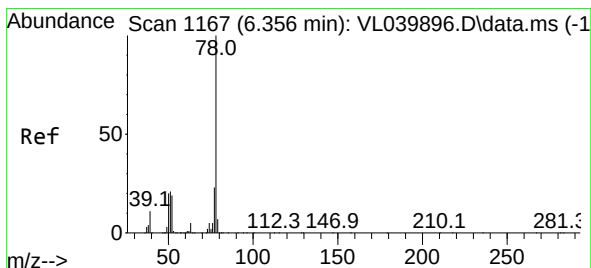
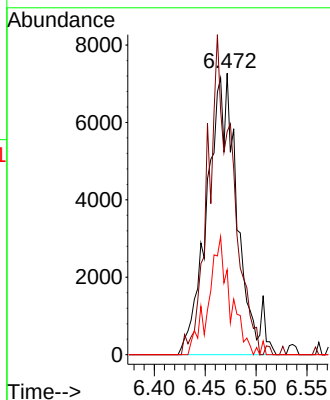
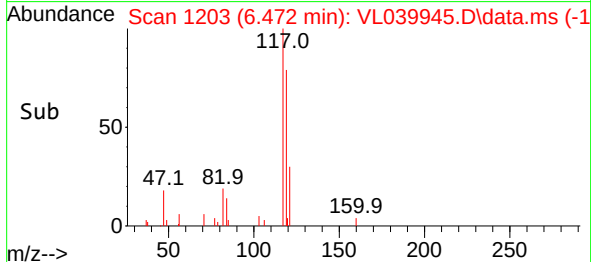
Instrument :
MSVOA_L
ClientSampleId :
OTC-IA



Tgt Ion: 117 Resp: 15072
Ion Ratio Lower Upper
117 100
119 79.2 74.7 112.1
121 30.1 24.5 36.7

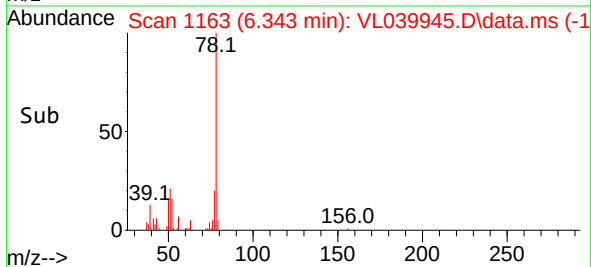
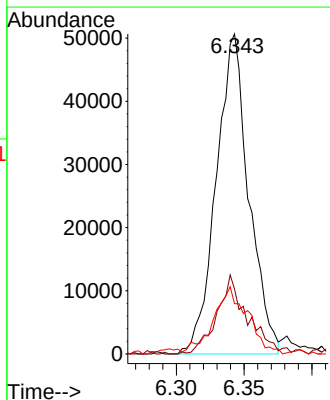
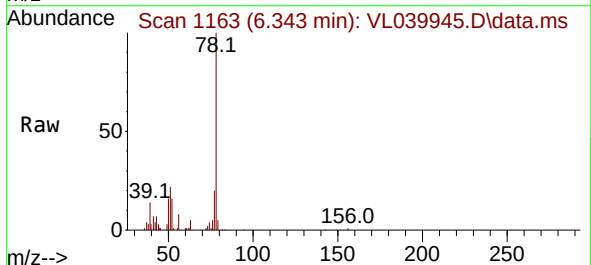
Manual Integrations
APPROVED

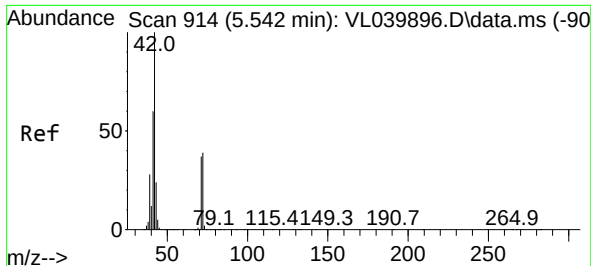
Reviewed By :Semsettin Yesilyurt 12/02/2022
Supervised By :Mahesh Dadoda 12/05/2022



#36
Benzene
Concen: 0.331 ppbv
RT: 6.343 min Scan# 1163
Delta R.T. -0.010 min
Lab File: VL039945.D
Acq: 1 Dec 2022 17:04

Tgt Ion: 78 Resp: 84771
Ion Ratio Lower Upper
78 100
77 20.6 18.2 27.2
50 14.4 15.8 23.8





#41

Tetrahydrofuran

Concen: 0.347 ppbv m

RT: 5.539 min Scan# 914

Delta R.T. 0.000 min

Lab File: VL039945.D

Acq: 1 Dec 2022 17:04

Instrument :

MSVOA_L

ClientSampleId :

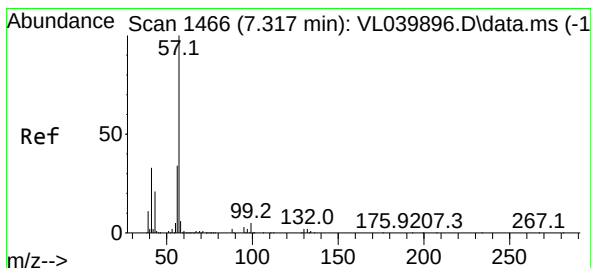
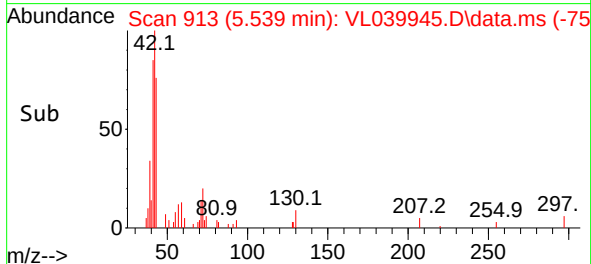
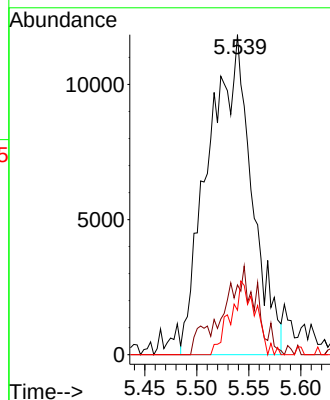
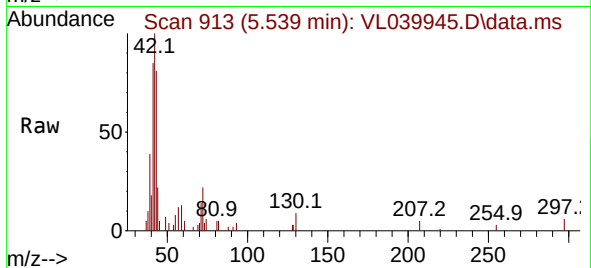
OTC-IA

Tgt Ion:	42	Resp:	34510
Ion Ratio	Lower	Upper	
42	100		
72	0.0	31.6	47.4
71	0.0	31.2	46.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/02/2022
Supervised By :Mahesh Dadoda 12/05/2022



#44

2,2,4-Trimethylpentane

Concen: 0.141 ppbv m

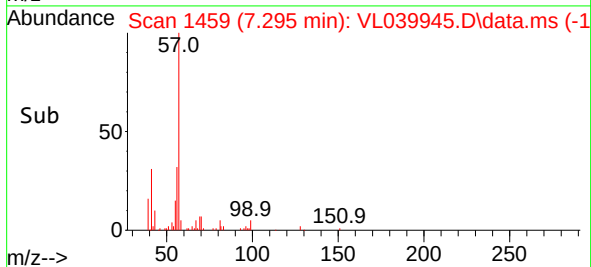
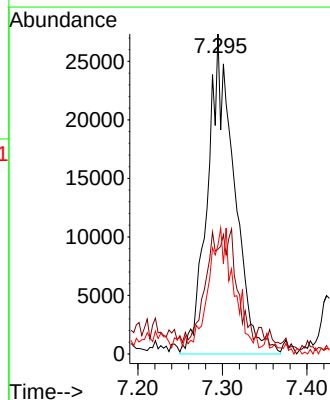
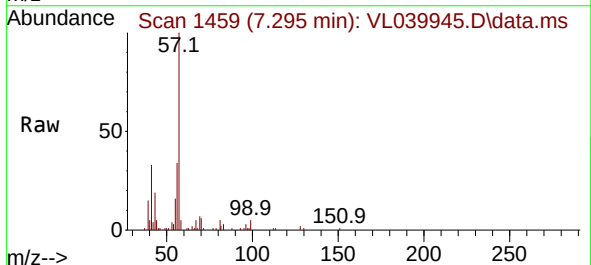
RT: 7.295 min Scan# 1459

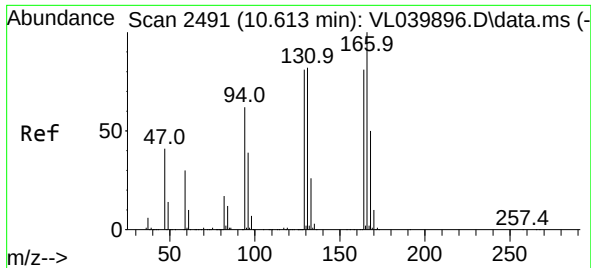
Delta R.T. -0.016 min

Lab File: VL039945.D

Acq: 1 Dec 2022 17:04

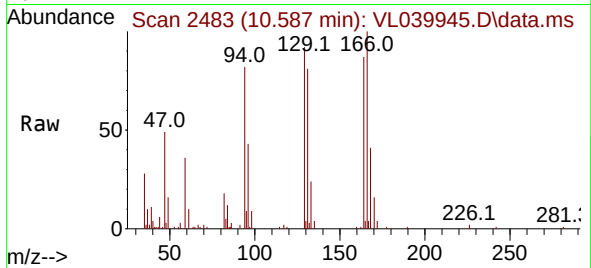
Tgt Ion:	57	Resp:	60084
Ion Ratio	Lower	Upper	
57	100		
41	46.4	26.2	39.2
56	42.7	25.5	38.3





#52
Tetrachloroethene
Concen: 0.416 ppbv m
RT: 10.587 min Scan# 2491
Delta R.T. -0.016 min
Lab File: VL039945.D
Acq: 1 Dec 2022 17:04

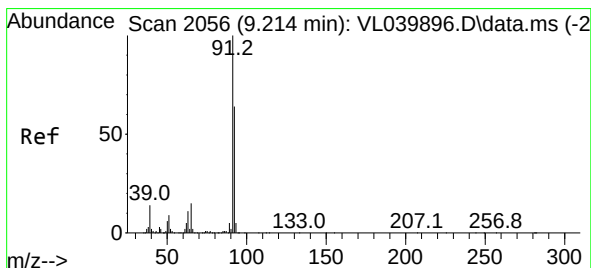
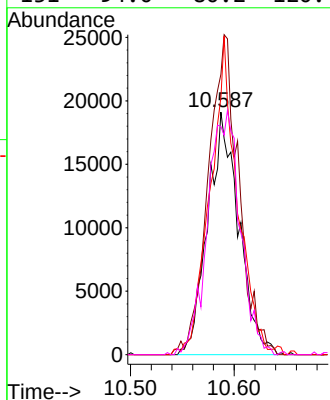
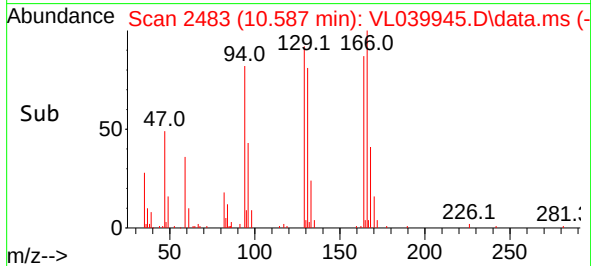
Instrument :
MSVOA_L
ClientSampleId :
OTC-IA



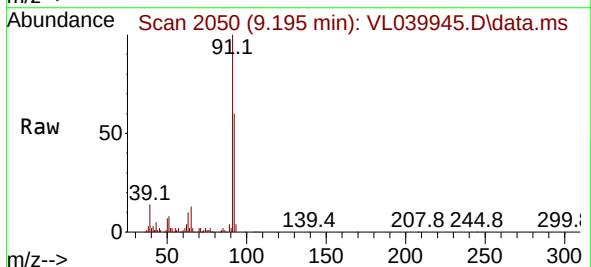
Tgt Ion:164 Resp: 3981
Ion Ratio Lower Upper
164 100
166 115.6 98.3 147.5
129 106.0 79.7 119.5
131 94.0 80.2 120.4

Manual Integrations
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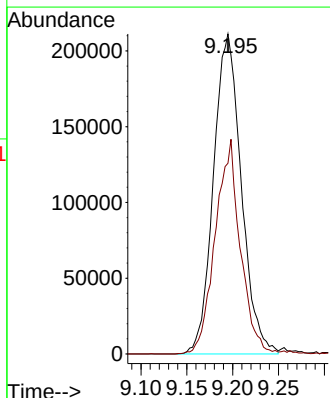
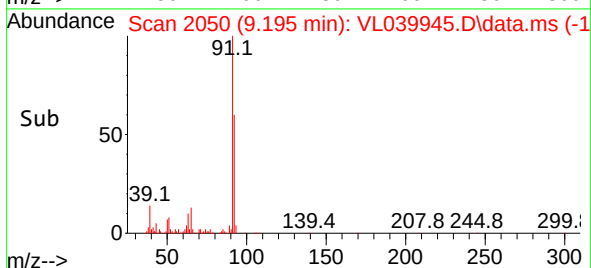
Reviewed By :Semsettin Yesilyurt 12/02/2022
Supervised By :Mahesh Dadoda 12/05/2022

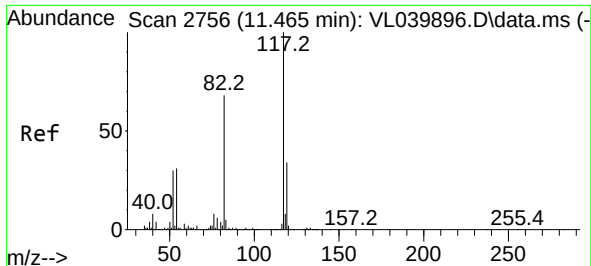


#53
Toluene
Concen: 1.529 ppbv
RT: 9.195 min Scan# 2050
Delta R.T. -0.010 min
Lab File: VL039945.D
Acq: 1 Dec 2022 17:04



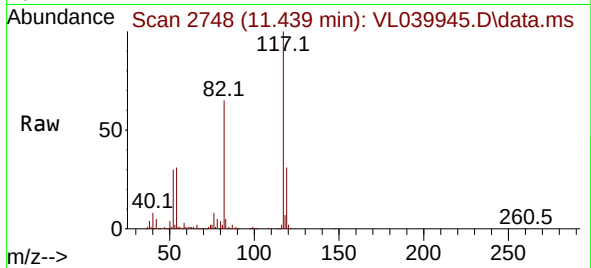
Tgt Ion: 91 Resp: 445688
Ion Ratio Lower Upper
91 100
92 61.2 49.8 74.6





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.439 min Scan# 21
Delta R.T. -0.013 min
Lab File: VL039945.D
Acq: 1 Dec 2022 17:04

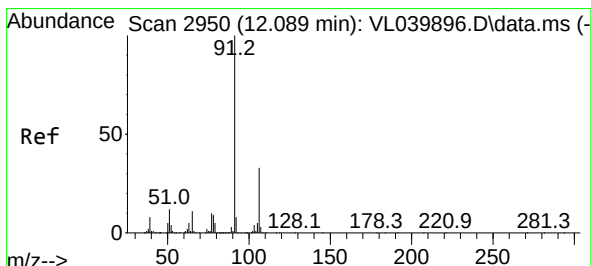
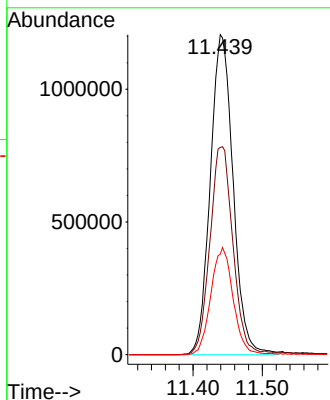
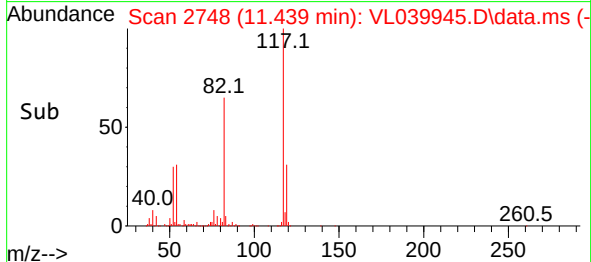
Instrument :
MSVOA_L
ClientSampleId :
OTC-IA



Tgt Ion:117 Resp: 2759750
Ion Ratio Lower Upper
117 100
82 66.7 52.3 78.5
119 32.9 25.7 38.5

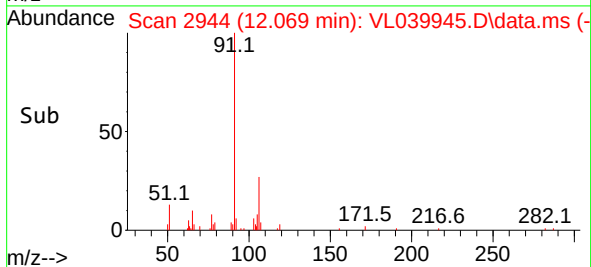
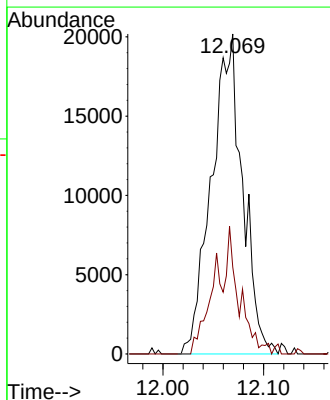
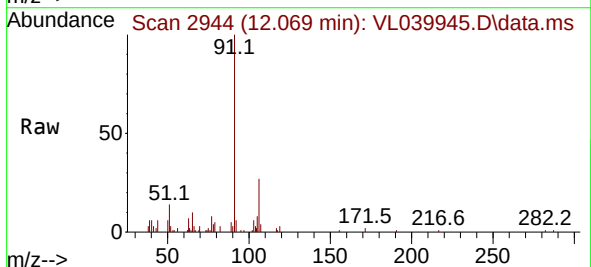
Manual Integrations
APPROVED

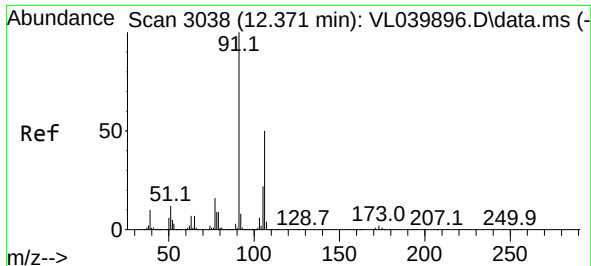
Reviewed By :Semsettin Yesilyurt 12/02/2022
Supervised By :Mahesh Dadoda 12/05/2022



#58
Ethyl Benzene
Concen: 0.116 ppbv m
RT: 12.069 min Scan# 2944
Delta R.T. -0.006 min
Lab File: VL039945.D
Acq: 1 Dec 2022 17:04

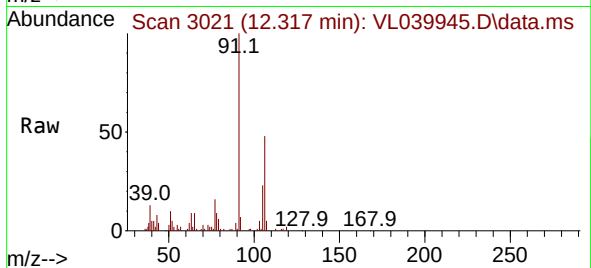
Tgt Ion: 91 Resp: 43331
Ion Ratio Lower Upper
91 100
106 27.1 26.1 39.1





#59
m/p-Xylene
Concen: 0.365 ppbv m
RT: 12.317 min Scan# 3038
Delta R.T. -0.042 min
Lab File: VL039945.D
Acq: 1 Dec 2022 17:04

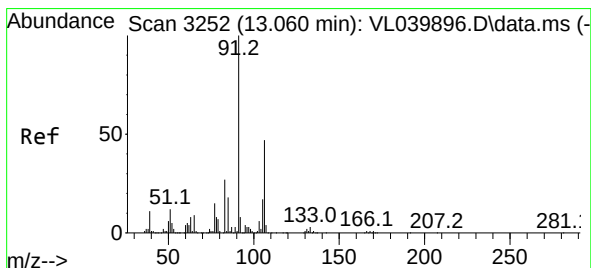
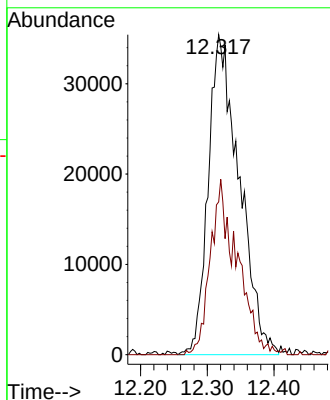
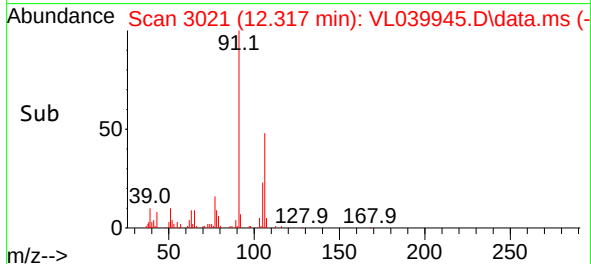
Instrument :
MSVOA_L
ClientSampleId :
OTC-IA



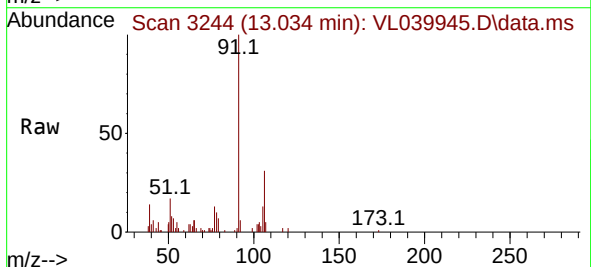
Tgt Ion: 91 Resp: 11442
Ion Ratio Lower Upper
91 100
106 0.0 37.0 55.6

Manual Integrations
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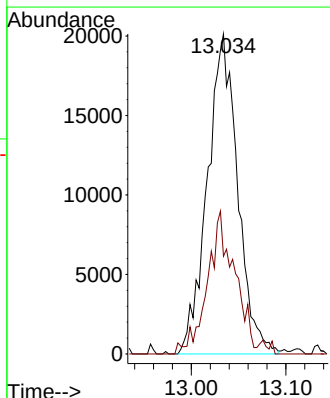
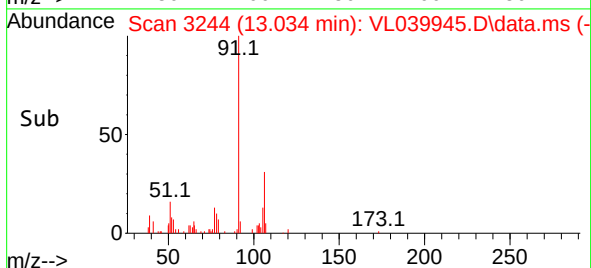
Reviewed By :Semsettin Yesilyurt 12/02/2022
Supervised By :Mahesh Dadoda 12/05/2022

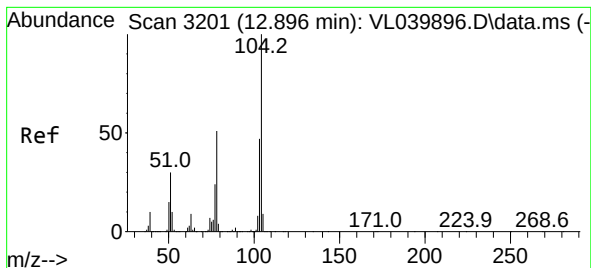


#60
o-Xylene
Concen: 0.150 ppbv
RT: 13.034 min Scan# 3244
Delta R.T. -0.013 min
Lab File: VL039945.D
Acq: 1 Dec 2022 17:04



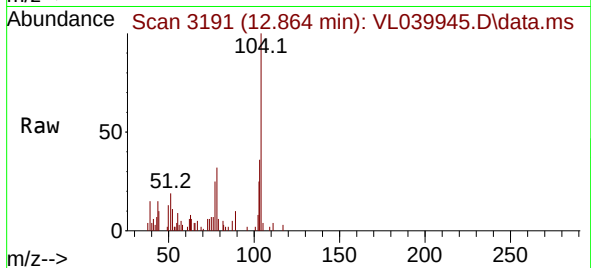
Tgt Ion: 91 Resp: 44809
Ion Ratio Lower Upper
91 100
106 41.3 23.2 69.6





#61
Styrene
Concen: 0.148 ppbv m
RT: 12.864 min Scan# 3191
Delta R.T. -0.026 min
Lab File: VL039945.D
Acq: 1 Dec 2022 17:04

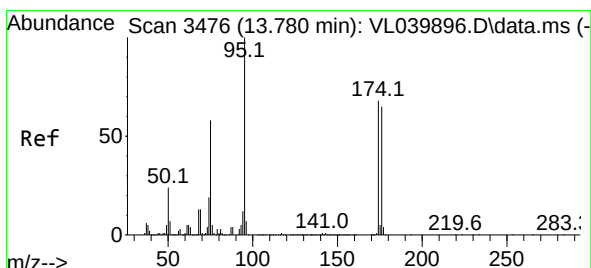
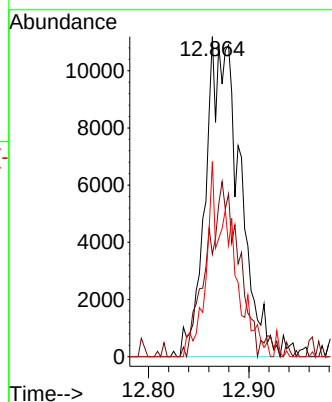
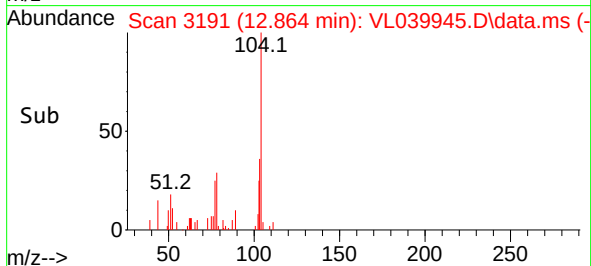
Instrument :
MSVOA_L
ClientSampleId :
OTC-IA



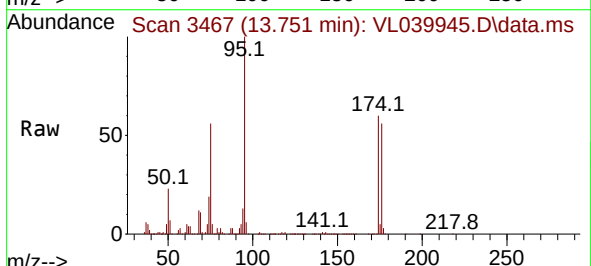
Tgt Ion:104 Resp: 26428
Ion Ratio Lower Upper
104 100
78 52.5 41.8 62.8
103 0.0 37.2 55.8

Manual Integrations
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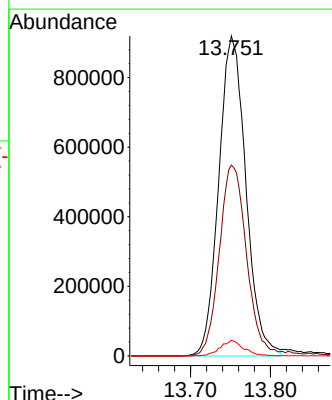
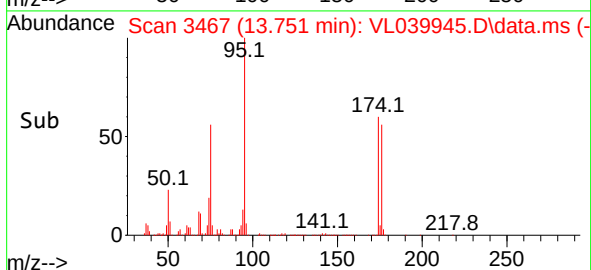
Reviewed By :Semsettin Yesilyurt 12/02/2022
Supervised By :Mahesh Dadoda 12/05/2022

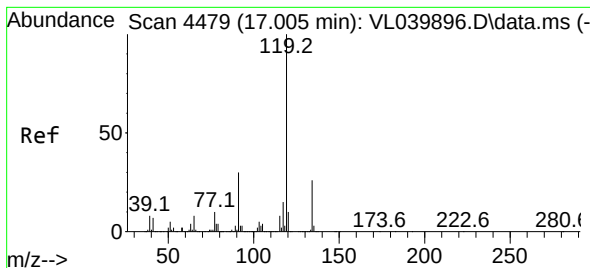


#68
1-Bromo-4-Fluorobenzene
Concen: 10.266 ppbv
RT: 13.751 min Scan# 3467
Delta R.T. -0.013 min
Lab File: VL039945.D
Acq: 1 Dec 2022 17:04



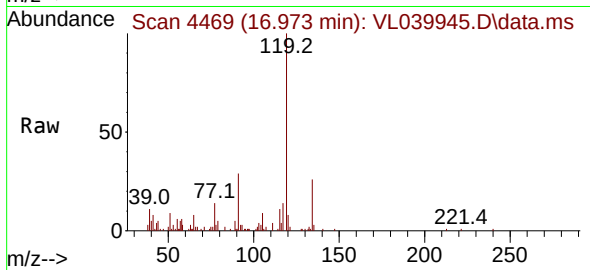
Tgt Ion: 95 Resp: 2164058
Ion Ratio Lower Upper
95 100
174 60.9 53.7 80.5
175 4.3 4.0 6.0





#69
p-Isopropyltoluene
Concen: 0.150 ppbv
RT: 16.973 min Scan# 4193
Delta R.T. -0.013 min
Lab File: VL039945.D
Acq: 1 Dec 2022 17:04

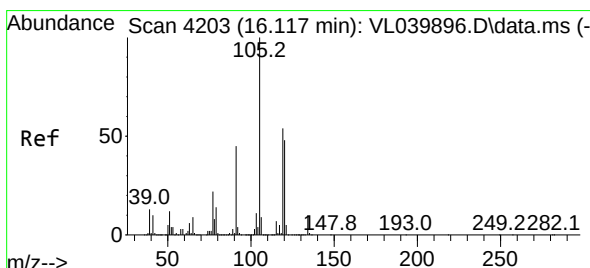
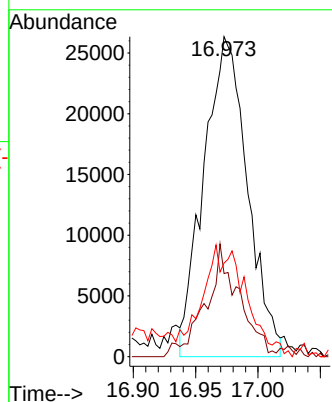
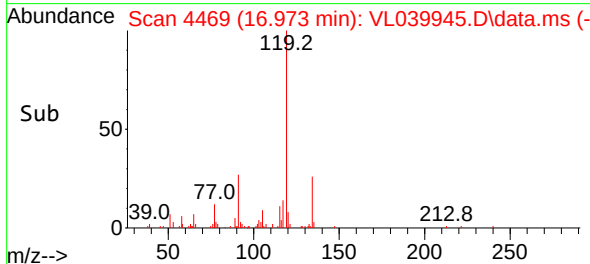
Instrument :
MSVOA_L
ClientSampleId :
OTC-IA



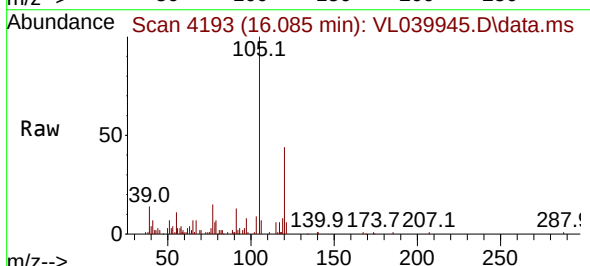
Tgt Ion:119 Resp: 64040
Ion Ratio Lower Upper
119 100
134 28.4 21.0 31.4
91 37.1 24.4 36.6

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/02/2022
Supervised By :Mahesh Dadoda 12/05/2022



#74
1,2,4-Trimethylbenzene
Concen: 0.280 ppbv
RT: 16.085 min Scan# 4193
Delta R.T. -0.013 min
Lab File: VL039945.D
Acq: 1 Dec 2022 17:04



Tgt Ion:105 Resp: 91094
Ion Ratio Lower Upper
105 100
120 44.0 38.7 58.1
91 12.6 36.4 54.6#
77 12.2 17.4 26.0#

